

THE NATIONAL QUALITY FORUM

COMPOSITE MEASURE SUBMISSION FORM

Version 4.1 January 2010

This form will be used by stewards to submit composite measures and by reviewers to evaluate the measures.

Measure Stewards: Check with NQF staff before using this form. Complete all non-shaded areas of the form. All requested information should be entered directly into this form. The information requested is directly related to NQF's composite measure evaluation criteria and will be used by reviewers to determine if the evaluation criteria have been met. The specific relevant subcriteria language is provided in a Word comment within the form and will appear if your cursor is over the highlighted area (or in balloons).

The measure steward has the opportunity to identify and present the information that demonstrates the measure meets the criteria. Additional materials will only be considered supplemental. Do not rely solely on materials provided at URLs or in attached documents to provide measure specifications or to demonstrate meeting the criteria. If supplemental materials are provided, be sure to indicate specific page numbers/ web page locations for the relevant information (web page links preferred).

For questions about completing this form, contact the project director at 202-783-1300. Please email this form to the appropriate contact listed in the corresponding call for measures.

TAP/Workgroup (if utilized): Complete all yellow highlighted areas of the form. Evaluate the extent to which each subcriterion is met. Based on your evaluation, summarize the strengths and weaknesses in each section.

Note: If there is no TAP or workgroup, the SC also evaluates the subcriteria (yellow highlighted areas).

Steering Committee: Complete all pink highlighted areas of the form. Review the workgroup/TAP assessment of the subcriteria, noting any areas of disagreement; then evaluate the extent to which each major criterion is met; and finally, indicate your recommendation for the endorsement. Provide the rationale for your ratings.

Evaluation ratings of the extent to which the criteria are met

C = Completely (unquestionably demonstrated to meet the criterion)

P = Partially (demonstrated to partially meet the criterion)

M = Minimally (addressed BUT demonstrated to only minimally meet the criterion)

N = Not at all (NOT addressed; OR incorrectly addressed; OR demonstrated to NOT meet the criterion)

NA = Not applicable (only an option for a few subcriteria as indicated)

<p>(for NQF staff use) NQF Review #: 1741 NQF Project: Surgery Endorsement Maintenance 2010</p>
<p>De.1 Title of Measure:</p> <p style="text-align: center;">Patient Experience with Surgical Care Based on the Consumer Assessment of Healthcare Providers and Systems (CAHPS)® Surgical Care Survey</p>
<p>De.2 Brief description of measure (including type of score, measure focus, target population, time, e.g., Percentage of adult patients aged 18-75 years receiving one or more HbA1c tests per year):</p> <p>The following 6 composites and 1 single-item measure are generated from the Consumer Assessment of Healthcare Providers and Systems (CAHPS®) Surgical Care Survey. Each measure is used to assess a particular domain of surgical care quality from the patient's perspective.</p> <p>Measure 1: Information to help you prepare for surgery (2 items) Measure 2: How well surgeon communicates with patients before surgery (4 items) Measure 3: Surgeon's attentiveness on day of surgery (2 items)</p>

Measure 4: Information to help you recover from surgery (4 items)
 Measure 5: How well surgeon communicates with patients after surgery (4 items)
 Measure 6: Helpful, courteous, and respectful staff at surgeon’s office (2 items)
 Measure 7: Rating of surgeon (1 item)

The Consumer Assessment of Healthcare Providers and Systems (CAHPS®) Surgical Care Survey is administered to adult patients (age 18 and over) having had a major surgery as defined by CPT codes (90 day globals) within 3 to 6 months prior to the start of the survey.

De.3 Type of Measure:
 Composite with component measures combined at patient-level (e.g., all-or-none)
 Composite with component measures combined at aggregate-level

Select the most relevant priority area(s), quality domain(s), and consumer need(s).

De.4 National Priority Partners Priority Area patient and family engagement population health safety
 care coordination palliative and end of life care overuse

De.5 IOM Quality Domain effectiveness efficiency equity patient-centered safety
 timeliness

De.6 Consumer Care Need Getting Better Living With Illness Staying Healthy

CONDITIONS FOR CONSIDERATION BY NQF	
Four conditions must be met before proposed measures may be considered and evaluated for suitability as voluntary consensus standards:	NQF Staff
<p>A. The measure is in the public domain or an intellectual property agreement (measure steward agreement) is signed. <i>Public domain only applies to governmental organizations. All non-government organizations must sign a measure steward agreement even if measures are made publicly and freely available.</i></p> <p>A.1 Do you attest that the measure steward holds intellectual property rights to the measure <u>and</u> the right to use any aspects of the measure owned by another entity (e.g., component measures, risk model, code set)? <input checked="" type="checkbox"/> Yes</p> <p>A.2 Measure Steward Agreement <input checked="" type="checkbox"/> Signed and Submitted OR <input type="checkbox"/> Government entity-public domain <i>(If measure steward agreement not signed for non-government entities, do not submit)</i></p> <p>A.3 Please check if either of the following apply: N/A <input type="checkbox"/> Proprietary Measure <input type="checkbox"/> Proprietary Complex Measure w/fees</p>	<p>A Y <input type="checkbox"/> N <input type="checkbox"/></p>
<p>B. The measure owner/steward verifies there is an identified responsible entity and process to maintain and update the measure on a schedule that is commensurate with the rate of clinical innovation, but at least every 3 years. B.1 <input checked="" type="checkbox"/> Yes <i>(If no, do not submit)</i></p>	<p>B Y <input type="checkbox"/> N <input type="checkbox"/></p>
<p>C. The intended use of the measure includes <u>both</u> public reporting <u>and</u> quality improvement.</p> <p>C.1 Purpose: <input checked="" type="checkbox"/> Public reporting <input checked="" type="checkbox"/> Internal quality improvement</p> <p>C.2 <input checked="" type="checkbox"/> Accountability <input checked="" type="checkbox"/> Accreditation <input checked="" type="checkbox"/> Payment incentive <input type="checkbox"/> Other, describe: <i>(If not intended for both public reporting and quality improvement, do not submit)</i></p>	<p>C Y <input type="checkbox"/> N <input type="checkbox"/></p>
<p>D. The requested measure submission information is complete. Composite measures should be fully developed and tested so that all the evaluation criteria have been addressed and information needed to evaluate the measure is provided.</p>	<p>D Y <input type="checkbox"/> N <input type="checkbox"/></p>

<p>D.1 Testing: <input checked="" type="checkbox"/> Fully developed and tested (If composite measure not tested, do not submit)</p> <p>D.2 Have NQF-endorsed measures been reviewed to identify if there are similar or related measures? <input checked="" type="checkbox"/> Yes (If no, do not submit) If there are similar or related measures, be sure to address items 3b and 3c with specific information. <input type="checkbox"/> No</p> <p>► Is all requested information entered into this form? <input checked="" type="checkbox"/> Yes (If no, do not submit)</p>	
<p>De.7 If component measures of the composite are aggregate-level measures, all must be either NQF-endorsed or submitted for consideration for NQF endorsement (check one)</p> <p><input type="checkbox"/> All component measures are <u>NQF-endorsed</u> measures</p> <p><input type="checkbox"/> Some or all component measures are <u>not NQF-endorsed</u> and have been submitted using the online measure submission tool (If not, do not submit)</p>	<p>Y <input type="checkbox"/> N <input type="checkbox"/></p>
<p>(for NQF staff use) Have all conditions for consideration been met? Staff Notes to Steward (if submission returned):</p>	<p>Met Y <input type="checkbox"/> N <input type="checkbox"/></p>
<p>Staff Notes to Reviewers (issues or questions regarding any criteria):</p>	
<p>Staff Reviewer Name(s):</p>	

<p>TAP/Workgroup Reviewer Name:</p>	
<p>Steering Committee Reviewer Name:</p>	
<p>1. IMPORTANCE TO MEASURE AND REPORT</p>	
<p>Extent to which the specific measure focus is important to making significant gains in health care quality (safety, timeliness, effectiveness, efficiency, equity, patient-centeredness) and improving health outcomes for a specific high impact aspect of healthcare where there is variation in or overall poor performance. Measures must be judged to be important to measure and report in order to be evaluated against the remaining criteria. (composite measure evaluation criteria)</p>	<p>Eval</p>
<p>(for NQF staff use) <u>Specific NPP goal</u>:</p>	
<p>1d. Purpose/objective of the Composite</p> <p>1d.1 Describe the purpose/objective of the composite measure:</p> <p>All of the measures submitted to NQF for endorsement share the main objective of the Surgical CAHPS survey, which is to measure aspects of surgical quality that are important to consumers and for which consumers are the best source of information. At the same time, consistent with the survey, the measures aim to directly <i>benefit a variety of users</i>, including: patients, practice groups, health plans, insurers, and specialty boards. Each group has a need for information regarding the quality of surgeons and surgical care.</p> <ol style="list-style-type: none"> 1. Patients will use information from the measures to help make better and more informed choices about their surgical care. 2. Practices, health plans, and insurers will use the measure results for quality improvement initiatives and incentives. 3. Specialty boards may use the measure results for maintenance of certification purposes. <p>1d.2 Describe the quality construct used in developing the composite:</p> <p>To determine the major domains surrounding the consumers' view of quality surgical care, American Institutes for Research (AIR) first performed a literature review prior to developing the surgical CAHPS instrument. From an extensive abstract review, 38 abstracts were chosen to review in full. The 38 articles reviewed indicated 14 domains, or primary issues, of surgical patient care</p>	<p>1d C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/></p>

experience from a patient’s perspective: information/education, interpersonal manner, pain, emotional support, accessibility/convenience, technical quality of care, efficacy/outcomes of care, availability, environment, customization/personalized care, patient involvement in care, continuity of care, overall satisfaction, and finances. These results guided the development of the surgical survey based on relevance to quality and to consumers and the ability of consumers to act as reliable reporters of the domain.

In addition, American Institutes for Research conducted six focus groups to identify important quality issues inherent in patients’ experiences of surgical care. The results of the focus groups are included in Appendix E. In summary, the most common characteristics of surgeons associated with high or low quality of surgical care included: interpersonal manner, expertise/technical competence, and skill in communicating or providing health information and patient education, good surgical skills, patient involvement in making choices about treatments, treats patient with courtesy and respect, takes time to answer patient’s questions, and prepares patient well for surgery.

After the focus groups were conducted, the AIR project director, senior research analyst, and research analyst examined the notes and focused in on each of the following three issues: surgeon’s interpersonal skills and behaviors, surgeon’s expertise/technical competence, and surgeon’s skill in communicating or providing health information and patient education. Though patients rated technical skill of the surgeon as highly relevant to quality, it was determined that patients are not the best reporters of technical surgical expertise, so this was not included as a domain in the survey instrument.

The final two quality constructs of surgeon’s interpersonal skills and behaviors and the surgeon’s competence in communicating and providing information are the two quality constructs that the submitted measures primarily seek to access.

1e. Components and conceptual construct for quality

1e.1 Describe how the component measures/items are consistent with and representative of the quality construct:

The composite measures submitted for review directly operationalize the quality constructs deemed most important by patients in accessing surgical performance in the course of research completed as part of the development of the surgical CAHPS survey. Each measure is used to assess one or more of the surgical care quality domains identified during our early research stages.

- Measure 1: Information to help you prepare for surgery (2 items): This measure assesses the extent and quality of information transfer from the surgeon to the patient before surgery.
- Measure 2: How well surgeon communicates with patients before surgery (4 items): This measure assesses the extent and quality of information transfer from the surgeon to the patient as well as the surgeon’s interpersonal skills and behaviors as observed before surgery.
- Measure 3: Surgeon’s attentiveness on day of surgery (2 items): This measure assesses the surgeon’s interpersonal skills and behaviors as observed on the day of the surgery.
- Measure 4: Information to help you recover from surgery (4 items): This measure assesses the extent and quality of information transfer from the surgeon to the patient post-surgery.
- Measure 5: How well surgeon communicates with patients after surgery (4 items): This measure assesses the extent and quality of information transfer from the surgeon to the patient as well as the surgeon’s interpersonal skills and behaviors as observed after surgery.
- Measure 6: Helpful, courteous, and respectful staff at surgeon’s office (2 items): this measure assesses the helpfulness and interpersonal skills of office staff that surgical patients

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<p>encounter at the surgeon’s office. Measure 7: Rating of surgeon (1 item): This is an overall rating of the surgeon.</p>	
<p>If the component measures are <u>combined at the patient level</u>, complete 1a, 1b, and 1c. If the component measures are <u>combined at the aggregate level</u>, skip to criterion 2, <i>Scientific Acceptability of Measure Properties</i> (individual measures are either NQF-endorsed or submitted individually).</p>	
<p>1a. High Impact</p> <p>Please note that sections 1a, 1b, and 1c were not completed because we have data at the aggregate level (i.e., hospital-level) and not at the patient-level.</p> <p>1a.1 Demonstrated high impact aspect of healthcare (<i>Select the most relevant</i>) <input checked="" type="checkbox"/> affects large numbers <input checked="" type="checkbox"/> frequently performed procedure <input type="checkbox"/> leading cause of morbidity/mortality <input checked="" type="checkbox"/> high resource use <input type="checkbox"/> severity of illness <input checked="" type="checkbox"/> patient/societal consequences of poor quality <input type="checkbox"/> other, describe: 1a.2</p> <p>1a.3 Summary of Evidence of High Impact:</p> <p>Surgeries are frequently performed procedures that affect large numbers of patients in the population, have high resource use, and poor quality can have serious consequences for patients, including death. Therefore, improving the quality of surgical care is of paramount importance to patients and the healthcare system alike.</p> <p>In a study based on the HCUP 2007 data, in 28 states that were evaluated, there were nearly 5,600 ambulatory surgery (AS) visits per 100,000 in the population and almost 4,100 inpatient surgical visits per 100,000. The mean charge for ambulatory surgery is about \$6,100 and for inpatient surgery is about \$39,900. The aggregate charge across the 28 states for ambulatory surgery was about \$55.6 billion and the total inpatient charges were about \$259 billion.</p> <p>Patient experience measures as indicators of quality for health plans are linked to health plan disenrollment. The mean voluntary disenrollment rate among Medicare managed care enrollees is four times higher for plans in the lowest 10 percent of overall CAHPS Health Plan survey ratings than for those in the highest 10 percent. At the provider level, patients who reported the poorest-quality relationships with their physicians are three times more likely to voluntarily leave the physician’s practice than patients with the highest-quality relationships.</p> <p>The quality of the provider-patient relationship as evident in good patient experience scores correlates with lower medical malpractice risk. Although average patient experience scores can mask variations within a provider’s scores, the minimum score a provider receives correlates with the likelihood of being implicated in a medical malpractice suit. Each drop in minimum overall score along a five-step scale of “very good” to “very poor” corresponds to a 21.7 percent increase in the likelihood of being named in a suit. Forty-six percent of malpractice risk is attributed to physician-specific characteristics, including patient experience.</p> <p>Efforts to improve patient experience also result in greater employee satisfaction, reducing turnover. Improving patients’ experiences requires improving work processes and systems that enable clinicians and staff to provide effective care. A focused endeavor to improve patients’ experiences at one hospital also resulted in a 4.7 percent reduction in employee turnover. Similarly, nurse satisfaction is strongly positively correlated with patients’ intent to return to or to recommend the hospital.</p>	<p style="text-align: right;">1a H <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> N <input type="checkbox"/></p>

Russo, C.A. (Thomson Reuters), Elixhauser, A. (AHRQ), Steiner, C. (AHRQ), and Wier, L. (Thomson Reuters). *Hospital-Based Ambulatory Surgery, 2007*. HCUP Statistical Brief #86. February 2010. Agency for Healthcare Research and Quality, Rockville, MD. <http://www.hcup-us.ahrq.gov/reports/statbriefs/sb86.pdf>, accessed October 2011.

1a.4 Citations for Evidence of High Impact:

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Atkins PM, Marshall BS, Javalgi RG. Happy employees lead to loyal patients. *J Health Care Market*. 1996;16 (4):14-23.

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Beckman HB, Markakis KM, Suchman AL, Frankel RM. The doctor-patient relationship and malpractice: lessons from plaintiff depositions. *Arch Intern Med*. 1994; 154:1365-70.

Bernstein M, Potvin D, Martin DK. A qualitative study of attitudes toward error in patients facing brain tumor surgery. *Can J Neurol Sci*. 2004 May;31(2):208-12.

Blue Cross Blue Shield of Massachusetts, Alternative Quality Contract <http://www.qualityaffordability.com/solutions/alternative-quality-contract.html>. Last accessed March 21, 2010. 14 Integrated Healthcare Association. http://www.iha.org/pay_performance.html. Last accessed March 21, 2010.

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DiMatteo MR, Sherbourne CD, Hays RD, et al. Physicians' characteristics influence patients'

adherence to medical treatment: results from the Medical Outcomes Study. *Health Psychology*. 1993; 12: 93-102.

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Feria MI, Sarrazin MV, Rosenthal GE. Perceptions of care of patients undergoing coronary artery bypass surgery in Veterans Health Administration and private sector hospitals. *Am J Med Qual*. 2003 Nov-Dec;18(6):242-50.

Fullam F, Garman AN, Johnson TJ, Hedberg EC. The use of patient satisfaction surveys and alternate coding procedures to predict malpractice risk. *Med Care*. 47(5).

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Greenfield S, Kaplan S, Ware JE Jr., Expanding patient involvement in care. Effects on patient outcomes. *Annals of Internal Medicine*. 1985 (102): 520-528.

Greenfield S, Kaplan HS, Ware JE Jr, Yano EM, Frank HJ. Patients' participation in medical care: effects on blood sugar control and quality of life in diabetes. *Journal of General Internal Medicine* 1988 (3):448-457.

Henderson A, Caplan G, Daniel A. Patient satisfaction: the Australian patient perspective. *Aust Health Rev*. 2004;27(1):73-83.

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development of a tool for the perceptions of patients. *J Adv Nurs*. 2001 Jul;35(2):294-306.

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Nelson EC, Rust RT, Zahorik A, Rose RL, Batalden P, Siemanski BA. Do patient perceptions of quality relate to hospital financial performance? *J Health Care Market*. 1992;12(4): 6-13.

Nijkamp MD, Sixma HJ, Afman H, Hiddema F, Koopmans SA, van den Borne B, Hendrikse F, Nuijts RM. Quality of care from the perspective of the cataract patient: the reliability and validity of the QUOTE-cataract. *Br J Ophthalmol*. 2002 Aug;86(8):840-2.

Persson, E., Gustavsson, B., Hellstrom, A-L., Lappas, G., & Hulton, L. Ostomy patients' 19 perceptions of quality of care. *JAN Journal of Advanced Nursing*, Vol 49(1), Jan 2005. pp.51-58.

Persson E, Wilde Larsson B. Quality of care after ostomy surgery: a perspective study of patients. *Ostomy Wound Manage*. 2005 Aug;51(8):40-8.

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Safran DG, Montgomery JE, Chang H, Murphy J, Rogers WH. Switching doctors: predictors of voluntary disenrollment from a primary physician's practice. *J Fam Practice*. 2001; 50(2):130-6.

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Sequist et al. Quality monitoring of physicians: linking patients' experiences of care to clinical quality and outcomes. *J Gen Intern Med* 2008.

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Stubbe JH, Gelsema T, Delnoij DM. The Consumer Quality Index Hip Knee Questionnaire measuring patients' experiences with quality of care after a total hip or knee arthroplasty. *BMC Health Serv Res*. 2007 Apr 26;7:60.

Tabolli S, Molino N, Abeni D, Sampogna F. Satisfaction with care in vascular surgery inpatient units. *Eur J Vasc Endovasc Surg*. 2003 Jan;25(1):48-52.

Teng CI, Ing CK, Chang HY, Chung KP. Development of service quality scale for surgical hospitalization. *J Formos Med Assoc*. 2007 Jun;106(6):475-84.

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1b. Opportunity for Improvement

1b.1 Briefly explain benefits (improvements in quality) envisioned by use of this measure:

All of the measures submitted to NQF for endorsement share the main objective of the Surgical CAHPS survey, which is to measure aspects of surgical quality that are important to consumers and for which consumers are the best source of information. At the same time, consistent with the survey, the measures aim to directly *benefit a variety of users*, including: patients, practice groups, health plans, insurers, and specialty boards. Each group has a need for information regarding the quality of surgeons and surgical care.

1. Patients will use information from the measures to help make better and more informed choices about their surgical care.
2. Practices, health plans, and insurers will use the measure results for quality improvement initiatives and incentives.
3. Specialty boards may use the measure results for maintenance of certification purposes.

1b.2 Summary of data demonstrating performance gap (variation or overall poor performance across providers):

The main field test performed from June to Sept of 2008 suggests variability in surgical performance as well as room for improvement across the topic areas addressed by the survey. The table below provides just a few examples of Surgical Care Survey items which suggest that there is room for improvement in surgeon performance because the minimum scores are very low and/or the average positive response is low. [For additional item results that include the minimum and maximum absolute score values as well as average scores and confidence intervals, see Attachment I, Surgeon Level Results from Surgical Care Field Test.]

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Item	Scale	Min	Max	All Surgeons N=96	95% CI
Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery with you?*	% Yes	48.1	100	84	81 - 87
After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?	% Yes	36	100	79.3	75.9 - 82.7
Did anyone in this surgeon's office warn you about any signs or symptoms that would need immediate medical attention during your recovery period?*	% Yes	66.7	100	93.5	92-95.1

*Surgical CAHPS 2.0 version wording shown here; differs slightly from field test version as indicated with highlighting.

See also additional frequency tables showing responses to items from the field test at the end of Attachment C: Surgical Patient Experience of Care Survey: Field Test Operations and Results, Appendix D, pp 1-15.

[Please note that the version of the survey tested in the field test is not identical to the final version being submitted to NQF and included in Attachment A, as the instrument underwent a series of refinements based on the results of the field tests, cognitive testing and focus groups.]

The performance gap in surgical care has been widely documented throughout the literature. (See citations below, in item 1b.3).

1b.3 Citations for data on performance gap:

Henderson A, Caplan G, Daniel A. Patient satisfaction: the Australian patient perspective. Aust Health Rev. 2004;27(1):73-83.

Hepner DL, Bader AM, Hurwitz S, Gustafson M, Tsen LC. Patient satisfaction with preoperative assessment in a preoperative assessment testing clinic. Anesth Analg. 2004 Apr;98(4):1099-105, table of contents.

Lledó R, Rodriguez-Ros T, Targarona EM, Trias M, Trilla A, Asenjo MA. Perceived quality of care of inguinal hernia repair: assessment before and after the procedure. Int Surg. 2000 Jan-Mar; 85(1):82-7.

Tabolli S, Molino N, Abeni D, Sampogna F. Satisfaction with care in vascular surgery inpatient units. Eur J Vasc Endovasc Surg. 2003 Jan;25(1):48-52.

Wolosin RJ. Patient satisfaction in gastroenterology clinics. Gastroenterol Nurs. 2003 Sep-Oct; 26(5):203-8.

1b.4 Summary of Data on disparities by population group: Not available

1b.5 Citations for data on Disparities:

Elliot MN, Haviland AM, Kanouse DE, Hambarsoomian K, Hays RD; *Adjusting for subgroup differences in extreme response tendency when rating health care: impact on disparity estimates;*

2009; *Hlth Services Research*; 44(1); 542-561;
<http://www.ncbi.nlm.nih.gov/pubmed?term=Adjusting%20for%20subgroup%20differences%20in%20extreme%20response%20tendency%20when%20rating%20health%20care%3A%20impact%20n%20disparity%20estimates>

Frankenfield DL, Wei II, Anderson KK, Howell BL, Waldo D, Sekscenski E; *Prescription medication cost-related non-adherence among Medicare CAHPS respondents: disparity by Hispanic ethnicity*; 2010; *J Health Care Poor Underserved*; 21(2); 518-43;
[http://www.ncbi.nlm.nih.gov/pubmed?term=Prescription medication cost-related non-adherence among Medicare CAHPS respondents%3A disparity by Hispanic ethnicity](http://www.ncbi.nlm.nih.gov/pubmed?term=Prescription%20medication%20cost-related%20non-adherence%20among%20Medicare%20CAHPS%20respondents%3A%20disparity%20by%20Hispanic%20ethnicity)

Weinick RM, Elliott MN, Volandes AE, Lopez L, Burkhart Q, Schlesinger M; *Using standardized encounters to understand reported racial/ethnic disparities in patient experiences with care*; 2011; *Hlth Serv Res*; 46(2); 491-509;
<http://www.ncbi.nlm.nih.gov/pubmed?term=Using%20standarized%20encounters%20to%20unders tand%20reported%20racial%2Fethnic%20disparaties%20in%20patient%20experiences%20with%20care>

AHRQ. *National Health Disparities Report*. 2010. Pub # 11-0004-1. <http://www.ahrq.gov/qual/qrd10.htm>

1c. Evidence-based

1c.1 Relationship to Outcomes (For non-outcome measures, briefly describe the relationship to desired outcome. For outcomes, describe why it is relevant to the target population.)

Patient experience has in fact not been found to correlate strongly with clinical outcomes but good patient experience has a well documented, positive relationship to various aspects of health care quality, including the technical quality of care, hospital readmission rates, patients’ engagement with and adherence to providers’ instructions, and clinical processes and outcomes. This clinical case is also paired with a solid business case, linking patient experience to financial performance, malpractice risk, patient loyalty, and employee satisfaction. We thus anticipate that a finding of positive patient experience with care through our measures will ultimately lead to improved surgical outcomes due to all of the above positive outcomes.

The discussion below discusses the current evidence available:

Since the CAHPS Surgical Survey measures were released in 2010, there are no studies yet linking the survey measures to surgical outcomes since the field test did not include analyses examining this relationship. The CAHPS Consortium supports the proposition that patient experience data should compliment outcome measures but not be used as a sole outcome measure (see, for example, Friedberg M, SteelFisher GK, Karp M and Schneider EC, Physician Groups’ Use of Data from Patient Experience Surveys, *Journal of General Internal Medicine, December 2010*, and Schneider EC, Zaslavsky AM, Landon BE, Lied TR, Sheingold S, Cleary PD, National quality monitoring of Medicare health plans: the relationship between enrollees' reports and the quality of clinical care, *Med Care*, December 2001, 39(12), 1313-25.)

Patient experience has, for example, been found to relate to measures of technical quality of care, supporting the validity of Hospital CAHPS as summary measures of hospital quality (Isaac Thomas, et al. The Relationship between Patient’s Perception of Care and Measures of Hospital Quality and Safety, *Health services Research*, 45:4, Aug 2004). Further study may elucidate implications of

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these relationships of improving hospital care.

In addition, higher overall patient satisfaction and satisfaction with discharge planning are associated with lower 30-day risk-standardized hospital readmission rates after adjusting for clinical quality. This finding suggests that patient-centered information can have an important role in evaluation and management of hospital performance (William Boulding at al. the American Journal of Managed Care, 17:1).

Patients with better care experiences are more engaged and adherent. Particularly in the case of chronic conditions, health care providers cannot achieve positive health outcomes without patient commitment and action. Patient care experiences correlate to patient adherence to medical advice and treatment plans, and to improved outcomes of care. For example, adherence rates were 2.6 times higher among primary care patients whose providers had “whole person” knowledge of them (95th percentile), compared to patients of providers without that familiarity (5th percentile).

Measuring patient care experiences identifies quality issues at a system level. Measures of communication from and coordination between providers and staff are most highly correlated with clinical measures. The information can reveal actionable system problems, such as delays in returning test results and gaps in communication that have broad quality and efficiency implications. Thus measuring patients’ experiences is a critical step toward understanding and improving the quality of care. The information can reveal system problems, such as delays in returning test results and gaps in coordination and communication that have major quality and efficiency implications. Although collecting the information is essential, using the information for improvement is the goal.

Research has consistently demonstrated that patient experience correlates with clinical processes of care for prevention and disease management and with better health outcomes. For example, patients hospitalized for acute myocardial infarction (AMI) who reported more problems with care had poorer outcomes both one month and twelve months after discharge, although these effects were mediated for patients with subsequently positive outpatient care experiences.

Patient experience is also positively correlated with key financial indicators, including patient loyalty and retention, reduced medical malpractice risk, and increased employee satisfaction. Indeed, a 1992 study found that patients’ perceptions of quality explained nearly 30 percent of the variation in hospital financial performance.

1c.2 Type of Evidence (Check all that apply) N/A

- Cohort study Evidence-based guideline Expert opinion Meta-analysis
 Observational study Randomized controlled trial Systematic synthesis of research
 Other (Please describe): **1c.3**

1c.4 Summary of Evidence as described above for type of measure; for outcomes, summarize any evidence that healthcare services/care processes influence the outcome):

The expert opinions of the TAP members, the results of literature searches, and focus group research, all suggest that the proposed measures of patient experience are in fact the care domains most valued by the consumers of surgical care.

In order to capture and ascertain the major domains surrounding the consumers’ view of quality surgical care American Institutes for Research performed a literature review prior to developing the surgical CAHPS instrument. Using four literature databases: Medline, PsychInfo, CINAHL, and

Evidence-Based Medicine Review, AIR reviewed 930 abstracts. These abstracts were narrowed from certain search terms and limitations. AIR asked the SQA Technical Advisory Panel (TAP) members to provide input and guidance in these terms and limitations. The TAP included 21 members from various surgery and anesthesiology specialty societies, each having technical expertise in the topic of surgical care. The AIR research analyst then classified each abstract as relevant, possibly relevant, and not relevant.

From that point on, only the research analyst's "relevant" and "possibly relevant" classifications were reviewed by the project director. From this abstract review method, 37 abstracts were chosen to review in full. In addition, one article was added from an SQA Technical Advisory Panel (TAP) member. The 38 articles reviewed indicated 14 domains, or primary issues, of surgical patient care experience from a patient's perspective: information/education, interpersonal manner, pain, emotional support, accessibility/convenience, technical quality of care, efficacy/outcomes of care, availability, environment, customization/personalized care, patient involvement in care, continuity of care, overall satisfaction, and finances. These results guided the development of the surgical survey based on relevance to quality and to consumers and the ability of consumers to act as reliable reporters of the domain.

In addition, American Institutes for Research conducted six focus groups to identify important quality issues inherent in patients' experiences of surgical care. The results of the focus groups are included in Appendix E. In total, 49 people participated in the focus groups, all of whom were 18 years of age or older and had undergone a surgical procedure billable with a 90-day global fee1 within the last 7 months. The groups were diverse both demographically and in the type of surgery. For recruiting the additional two groups of patients with more complex surgeries, each participant had their surgery in a hospital and stayed overnight for at least one night.

Three focus groups were hosted in Palo Alto, CA and three were hosted in Washington, DC. Each group lasted about two hours and followed a set protocol led by a trained moderator. The protocol included discussion on the following topics: pre-surgical visits, admissions process and pre-surgery interactions, anesthesiology, surgery and in-hospital recovery, post-surgery visits, and characteristics of good and bad surgeons. Additionally, one of the initial 4 focus group and one of the "major" surgery groups discussed survey experience. After discussion about each topic, the groups were asked to create a list of characteristics of "good" and "bad" surgeons. The most common characteristics of surgeons associated with high or low quality of surgical care included: interpersonal manner, expertise/technical competence, and skill in communicating or providing health information and patient education. Next, each participant was given a pre-printed list of surgeon characteristics and asked to vote on the five most important. Good surgical skills received the highest number of votes, followed by patient involvement in making choices about treatments, treats patient with courtesy and respect, takes time to answer patient's questions, and prepares patient well for surgery.

After the focus groups were conducted, the AIR project director, senior research analyst, and research analyst examined the notes and focused in on each of the above issues. They gathered recurring themes and issues into a report of results, used to develop insights about what patients feel characterizes quality surgical care. The three main domains were surgeon's interpersonal skills and behaviors, surgeon's expertise/technical competence, and surgeon's skill in communicating or providing health information and patient education. The results of the focus groups and the surgical patients' experiences of care ultimately guided development of the surgical survey. Though patients rated technical skill of the surgeon as highly relevant to quality, it was determined that patients are not the best reporters of technical surgical expertise, so this was not included as a domain in the

<p>survey instrument.</p> <p>1c.5 Rating of strength/quality of evidence (also provide narrative description of the rating and by whom)</p> <p>N/A This section applies to clinical practice guidelines and therefore is not applicable.</p> <p>1c.6 Method for rating evidence: N/A</p> <p>1c.7 Summary of Controversy/Contradictory Evidence: N/A</p> <p>1c.8 Citations for Evidence (other than guidelines) N/A</p> <p>1c.9 Quote the Specific guideline recommendation (including guideline number and/or page number)</p> <p>1c.10 Clinical Practice Guideline Citation: N/A</p> <p>1c.11 National Guideline Clearinghouse or other URL: N/A</p> <p>1c.12 Rating of strength of recommendation (also provide narrative description of the rating and by whom) N/A</p> <p>1c.13 Method for rating strength of recommendation (If different from USPSTF system, also describe rating and how it relates to USPSTF): N/A</p> <p>1c.14 Rationale for using this guideline over others: N/A</p>	
<p>TAP/Workgroup: What are the strengths and weaknesses in relation to the subcriteria for <i>Importance to Measure and Report</i>?</p>	1
<p>Steering Committee: Was the threshold criterion, <i>Importance to Measure and Report</i>, met? Rationale:</p>	<p>1 Y <input type="checkbox"/> N <input type="checkbox"/></p>
<p>2. SCIENTIFIC ACCEPTABILITY OF MEASURE PROPERTIES</p>	
<p>Extent to which the measure, as specified, produces consistent (reliable) and credible (valid) results about the quality of care when implemented. (composite measure evaluation criteria)</p>	Eval
<p>2a. COMPOSITE MEASURE SPECIFICATIONS</p>	
<p><i>In the future, NQF will require measure stewards to provide a URL link to a web page where current detailed specifications can be obtained?</i></p> <p>S.1 Do you have a web page where current detailed measure specifications can be obtained? YES</p> <p>S.2 If yes, provide web page URL:</p> <p>CAHPS Surgical Care Survey page https://www.cahps.ahrq.gov/Surveys-Guidance/Surgical.aspx</p> <p>For the instrument see Attachment A.</p> <p>2a. Precisely Specified</p> <p>2a.0.1 Components of the Composite (List the components, i.e., domains/sub-composites, individual measures. If component measures are NQF-endorsed, include NQF measure number; if not NQF-endorsed, provide date of submission to NQF)</p> <p>The CAHPS Surgical Survey is used to produce several measures focused on different domains. They are listed here:</p>	

1. Information To Help You Prepare For Surgery (Q3, Q4)
2. How Well Surgeon Communicates With Patients Before Surgery (Q9, Q10, Q11, Q12)
3. Surgeon's Attentiveness On Day of Surgery (Q15, Q17)
4. Information to Help You Recover From Surgery (Q26, Q27, Q28, Q29)
5. How Well Surgeon Communicates With Patients After Surgery (Q31, Q32, Q33, Q34)
6. Helpful, Courteous, and Respectful Staff at Surgeon's Office (Q36, Q37)
7. Global Rating: Patients' Rating of the Surgeon (Q35)

If the composite measure cannot be specified with a numerator and denominator, please consult with NQF staff.

If the component measures are combined at the aggregate level, do not include the individual measure specifications below.

2a.1 Composite Numerator Statement:

We recommend that CAHPS Surgical Survey composites be calculated using a top-box scoring method. The top box score refers to the percentage of patients whose responses indicated excellent performance for a given measure. This approach is a kind of categorical scoring because the emphasis is on the score for a specific category of responses.

The composite measures do not have a typical numerator. This section is used to describe the composite score. The composite score is the average proportion of respondents who answered the most positive response category across the questions in the composite. The top box numerators for items within Composite measures 1, 2, 4, 5, and 6 is the number of respondents who answered "Yes, definitely" across the items in each composite. The top box composite score is the average proportion of respondents who answered "Yes, definitely" across the items in the composite.

The top box numerator for items within Composite measure 3 is the number of respondents who answered "Yes" across the items in this composite. The top box composite score is the average proportion of respondents who answered "Yes" across the items in this composite.

The top box numerator for the Measure 7, the Global Rating Item, is the number of respondents who answered 9 or 10 to the Global Rating Item.

Note that for users who want to case-mix adjust their scores, case-mix adjustment can be done using the CAHPS macro and the adjustment is made prior to the calculation of the total score. For more, see section 2e.2.

See also Attachment H: Reporting Measures for the CAHPS Surgical Care Survey.

2a.2 Numerator Time Window:

Respondents assess their experience with surgical care before, on the day of, and after the target procedure as defined in the denominator.

2a.3 Numerator Details:

There are three basic steps to this approach:

1. Calculate the proportion of patient responses in the top box or most positive response category

for each item in a composite.

2. Calculate the mean top box proportions across all items in a composite to determine the composite’s top box score.

The following steps show how top box scores are calculated:

Step 1 – Calculate the proportion of cases in the top box or most positive response for the each item in a composite

Composite 1 “Information To Help You Prepare For Surgery” (2 items) has three response options:

- Yes, definitely
- Yes, somewhat
- No

The top box percentage for each item in this composite is only the proportion of respondents who answered “Yes, definitely.”

PItem 1 = Proportion of respondents who answered “Yes, definitely” = 80%

PItem 2 = Proportion of respondents who answered “Yes, definitely”= 90%

Step 2 – Average the top box item scores to form the overall composite top box score

Calculate the average top box score across the items in the composite. In the above example, the calculation would be as follows:

$$\text{Top box score for Composite 1} = \text{Proportion responding “yes, definitely”} = (\text{PItem1} + \text{PItem2}) / 2 = (80\% + 90\%) / 2 = 85\%.$$

A total of 19 questions comprise 6 composite measures and one single item measure, as follows:

1. Information To Help You Prepare For Surgery

Q3	A health provider could be a doctor, nurse, or anyone else you would see for health care. Before your surgery, did anyone in this surgeon’s office give you all the information you needed about your surgery?	Response Options Yes, definitely Yes, somewhat No
Q4	Before your surgery, did anyone in this surgeon’s office give you easy to understand instructions about getting ready for your surgery?	

2. How Well Surgeon Communicates With Patients Before Surgery

Q9	During your office visits before your surgery, did this surgeon listen carefully to you?	Response Options Yes, definitely Yes, somewhat No
Q10	During your office visits before your surgery, did this surgeon spend enough time with you?	
Q11	During your office visits before your surgery, did this surgeon encourage you to ask questions?	

Q12	During your office visits before your surgery, did this surgeon show respect for what you had to say?	
3. Surgeon's Attentiveness On Day of Surgery		
Q15	After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?	Response Options Q15 Yes No Q17 Yes No Don't know (Note: Don't know responses are treated as missing)
Q17	Before you left the hospital or surgical facility, did this surgeon discuss the outcome of your surgery with you?	
4. Information to Help You Recover From Surgery		
Q26	Did anyone in this surgeon's office explain what to expect during your recovery period?	Response Options Yes, definitely Yes, somewhat No
Q27	Did anyone in this surgeon's office warn you about any signs or symptoms that would need immediate medical attention during your recovery period?	
Q28	Did anyone in this surgeon's office give you easy to understand instructions about what to do during your recovery period?	
Q29	Did this surgeon make sure you were physically comfortable or had enough pain relief after you left the hospital or surgical facility where you had your surgery?	
5. How Well Surgeon Communicates With Patients After Surgery		
Q31	After your surgery, did this surgeon listen carefully to you?	Response Options Yes, definitely Yes, somewhat No
Q32	After your surgery, did this surgeon spend enough time with you?	
Q33	After your surgery, did this surgeon encourage you to ask questions?	
Q34	After your surgery, did this surgeon show respect for what you had to say?	
6. Helpful, Courteous, and Respectful Staff at Surgeon's Office		
Q36	During these visits, were clerks and receptionists at this surgeon's office as helpful as you thought they should be?	Response Options Yes, definitely Yes, somewhat No
Q37	During these visits, did clerks and receptionists at this surgeon's office treat you with courtesy and respect?	
7. Global Rating: Patients' Rating of the Surgeon		

Q35	Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate all your care from this surgeon?	Response Options 0-10
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2a.4 Composite Denominator Statement:

The composite does not have a typical denominator statement. This section describes the target population.

The major criteria for selecting patients were having had a **major** surgery as defined by CPT codes (90 day globals) within 3 to 6 months prior to the start of the survey. . [For the full list of CPT codes, see Attachment J].

2a.5 Target Population Gender Female Male

2a.6 Target Population Age range

Adult/Elderly

2a.7 Denominator Time Window:

The major criteria for selecting patients were having had a major surgery as defined by CPT codes (90 day globals) within 3 to 6 months prior to the start of the survey. Results will typically be compiled over a 12-month period.

2a.8 Denominator Details:

The timeframe for the surgery was selected to (1) minimize recall bias and (2) ensure ample time was allowed for follow-up care after surgery.

The CPT codes (90 day globals) for major surgery represent over 10,000 possible codes across multiple surgical specialties. The Surgical Quality Alliance felt that specifying only 90 day global procedure codes would include appropriate procedures while excluding minor procedures that were not intended to be included. [For the CPT codes, see Attachment J].

For each composite, respondents who answer at least one item of the composite are included in the scoring.

2a.9 Composite Denominator Exclusions:

The following patients would be excluded from all composites:

- Surgical patients whose procedure was greater than 6 months or less than 3 months prior to the start of the survey.
- Surgical patients younger than 18 years old.
- Surgical patients who are institutionalized (put in the care of a specialized institution) or deceased.
- Surgery performed had to be scheduled and not an emergency procedure since emergency procedures are unlikely to have visits with the surgeon before the surgery.

- Multiple surgery patients within the same household can be included in the sampling frame. However, once one patient in the household is sampled, any other patients in the same household would be excluded from being sampled in order to minimize survey burden to the household.

2a.10 Denominator Exclusion Details:

See item 2a.9 above.

2a.11 Stratification Details/Variables (All information required to stratify the measure including the stratification variables, all codes, logic, and definitions):

Stratification not needed.

2a.18 Type of Score: Non-Weighted/Composite

2a.19 If "Other", please describe:

2a.20 Interpretation of Score (Classifies interpretation of score according to whether better quality is associated with a higher score, a lower score, a score falling within a defined interval, or a passing score)

Better Quality=Higher Score

2a.42 Method of Scoring/Aggregation:

We recommend that CAHPS Surgical Survey composites be calculated using a top-box scoring method. The "top box" score refers to the percentage of patients whose responses indicated excellent performance for a given measure. This approach is a kind of categorical scoring because the emphasis is on the score for a specific category of responses.

There are three basic steps to this approach:

1. Calculate the proportion of patient responses in the top box or most positive response category for each item in a composite.
2. Calculate the mean top box proportions across all items in a composite to determine the composite's top box score.

The following steps show how top box scores are calculated:

Step 1 – Calculate the proportion of cases in the top box or most positive response for the each item in a composite

Composite 1 "Information To Help You Prepare For Surgery" (2 items) has three response options:

- Yes, definitely
- Yes, somewhat
- No

The top box percentage for each item in this composite is only the proportion of respondents who answered "Yes, definitely."

PItem 1 = Proportion of respondents who answered “Yes, definitely” = 80%

PItem 2 = Proportion of respondents who answered “Yes, definitely”= 90%

Step 2 – Average the top box item scores to form the overall composite top box score

Calculate the average top box score across the items in the composite. In the above example, the calculation would be as follows:

Top box score for Composite 1 = Proportion responding “yes, definitely” = $(P_{Item1} + P_{Item2}) / 2 = (80\% + 90\%) / 2 = 85\%$.

The top box score for Composite measures 1, 2, 4, 5, and 6 is the average proportion of respondents who answered “Yes, definitely” across the items within each composite.

The top box score for Composite measure 3 is the average proportion of respondents who answered “Yes” across the items in this composite.

The top box score for the global item is the proportion of respondents who answered 9-10 to this item.

Note that for users who want to case-mix adjust their scores, case-mix adjustment can be done using the CAHPS macro and the adjustment is made prior to the calculation of the total score. For more, see section 2e.2.

See Attachment H: Reporting Measures for the CAHPS Surgical Care Survey.

2a.43 If “other” scoring method, describe: N/A

2a.44 Missing Component Scores (*Indicate how missing component scores are handled*):

Missing item responses are not included in the scoring.

2a.45 Weighting: Equal Differential 2a.46 If differential weighting, describe:

The CAHPS consortium recommends equal weighting for the composites.

2a.21 Calculation Algorithm (*Describe the calculation of the measure as a flowchart or series of steps*): N/A

2a.22 Describe the method for discriminating performance (*e.g., significance testing*):

Substantive significance refers to an absolute difference between the entities being compared (e.g., practice sites provider groups, individual physicians) that must be achieved before a change is considered meaningful. If two provider groups, for example, had significantly different scores based on the *p*-value criteria, the difference between the provider groups’ scores may still not be large enough to be meaningful.

The method available in the CAHPS macro program is significance testing or specifying an absolute difference that must exist between a provider group mean and the mean for all groups in the analysis. For this method, the user needs only to specify the absolute mean difference considered to be meaningful.

From Attachment G, Instructions for Analyzing Data from CAHPS Surveys, pp.4-5.

2a.23 Sampling (Survey) Methodology *If measure is based on a sample (or survey), provide instructions for obtaining the sample (or conducting the survey) and guidance on minimum sample size (response rate):*

The measures are dependent on the standardized implementation of the complete CAHPS Surgical Care Survey. Failure to administer the entire survey will compromise the validity and reliability of the measures.

Developing the sampling frame. The sampling frame for the CAHPS Surgical Care Survey consists of patients that have had a non-emergency 90-day global procedure in the last 3-6 months from the date that the survey will be administered. The sampling frame is a procedure level file – patients with multiple procedures that meet the criteria may be included multiple times in the sampling. The actual sample will be de-duplicated to ensure that patients are not provided more than one survey.

Recommended Number of Completes for Individual surgeon: 50 completed surveys. To report or assess performance for individual surgeons, the CAHPS Consortium recommends at least 50 completed surveys per surgeon.

Reasoning behind the recommendations. The minimum sample size recommendations are based on extensive research conducted on the CAHPS Clinician & Group Survey. These recommendations are based on data regarding the number of completed questionnaires necessary to achieve adequate physician-level reliability for a measure. That is, how many completed surveys does one need to reliably distinguish among different physicians? To answer this question, CAHPS investigators examined data from multiple field trials.

The physician-level reliability coefficient indicates the extent to which the patients of a given physician agree with one another in terms of their reported experiences with that physician. The reliability coefficient can take any value from 0.0 to 1.0, where 1.0 signifies a measure for which every patient of a physician reports an identical experience to every other patient with that physician. The 0.70 reliability level is the minimum reliability necessary for “high stakes” purposes such as public reporting or payment, given the unacceptably large errors around estimated scores below this threshold.

The sample sizes “per physician” that are required to achieve this threshold will vary across areas and markets. In more than a dozen field tests of the CAHPS Clinician & Group Survey, all initiatives achieved or surpassed 0.70 reliability for the core composite measures with 50 completed questionnaires per physician. In some markets and physician populations, it has proven possible to achieve 0.70 reliability with fewer responses. For example, in one market, completed questionnaires from 35 patients per physician were adequate to achieve 0.70 reliability on the “communication” composite and on each of the individual items contained in that composite; in another market, 50 surveys per physician were required to meet that threshold.

Once a user has experience in measuring a particular physician population and establishes the number of “completes” required to achieve physician-level reliability smaller numbers per physician. Until that time, we recommend that users obtain 50 completed surveys per physician and compute the physician-level reliability of each metric (composite and/or item-level) that will be used for reporting or other purposes.

Response Rate Goal: The CAHPS Consortium recommends at least a 40-percent response rate. This figure is based on extensive experience with partners and field trials regarding what is possible with a reasonable amount of effort and expense. Sponsors and vendors that follow the recommended protocols for sampling and data collection, including follow up with non-

respondents, typically achieve response rates of 40 percent or higher. It is also important to begin with as accurate a sampling frame as possible.

A low response rate affects the ultimate sample size, but it is of concern primarily because the lower the response rate, the less confident one can be in saying that the sample is not biased. Differences in response rates across units of interest (physicians or medical groups) are also a concern, because the bias may differ across units. Survey sponsors should track the unit-level response as well as the overall response as they field the survey.

Sample Size Calculation: To have a sufficient number of responses for analysis and reporting, survey users need to select enough individuals to obtain approximately 50 completed questionnaires per physician. Assuming you achieve a response rate of 40 percent, survey users would need to start with a minimum sample size of 125. The following figure shows this calculation.

Calculation of Estimated Sample Size Needed To Assess Individual Physicians

Goal	50 completed surveys
Target response rate	40 percent (= 0.40)
Minimum sample size needed	$(50/0.40) = 125$ per physician

However, because response rates can vary widely, a sponsor may need to field as few as 90 or as many as 150 surveys. If it is anticipated that poor contact information (addresses and phone numbers) will decrease the number of questionnaires that reach the sampled individuals, survey users may need to start with a larger sample.

If one or more of the physicians do not have a patient base large enough to draw the required sample size, the sample will be all patients who meet all the eligibility criteria. But even under these circumstances, the sample may include only one adult per household. Careful consideration must be given to reporting or using physician-level data that is based on fewer than 50 completed surveys.

Sample Size Calculation: Practice Sites or Medical Groups

To have a sufficient number of responses for analysis and reporting, you need to select enough individuals to obtain adequate reliability and confidence in your results. However, recommended numbers of completed surveys differ according to the number of clinicians per practice site. For an office with 3 clinicians, the recommended number of completed surveys needed is 150. Assuming you achieve a response rate of 40 percent, you would need to start with a minimum sample size of 375.

Calculation of Estimated Sample Size Needed To Assess Physician Groups

	<i>Number of Clinicians</i>						
	<i>1</i>	<i>2</i>	<i>3</i>	<i>4-9</i>	<i>10-13</i>	<i>14-19</i>	<i>>20</i>
Consortium Recommendation for number of completes needed	50	100	150	175	200	250	300
Target response rate	40%	40%	40%	40%	40%	40%	40%
Minimum Sample Size Needed	125	250	375	438	500	625	750

If you anticipate that poor contact information (addresses and phone numbers) will decrease the number of questionnaires that reach the sampled individuals, you may need to start with a larger sample.

If one or more of the groups do not have a patient base large enough to draw the required sample size, the sample will be all patients who meet all the eligibility criteria. But even under these circumstances, the sample may include only one adult per household. Careful consideration must be given to reporting or using practice or group-level data that is based on fewer than 300 completed surveys.

Administration mode. The CAHPS Surgical Care Survey may be administered by one of the following modes as each has been found to provide comparable results:

- Mail only
- Telephone only
- Mixed mode (mail and telephone, email and mail, or email and telephone)

Mail protocol. Three-wave mail protocol: complete survey and letter, postcard reminder (10 days later), complete survey (3 weeks later).

Telephone protocol. At least 6 attempts on different days (weekdays and weekends), at different times of the day, and in different weeks.

Mixed modes.

- **Mail with telephone follow up:** mail protocol followed by telephone protocol 3 weeks after sending the second questionnaire.
- **Email with mail or telephone follow up:** Email with link to survey then reminder emails 7-10 days and 2-3 weeks later. Full mail or telephone protocol 2-3 weeks after third email (i.e. second reminder email).

2a.24 Data Source Check all the source(s) used in the component measures.

- Documentation of original self-assessment (e.g., SF-36)
- Electronic administrative data/ claims
- Electronic Clinical Data (e.g., MDS)
- Electronic Health/Medical Record
- External audit
- Lab data
- Management data
- Organizational policies and procedures

- Paper Medical Record/flowsheet
- Pharmacy data
- Public health data/vital statistics
- Registry data
- Survey-patient (e.g., CAHPS)
- Survey-provider
- Special or unique data, specify:

2a.25 Data source or collection instrument (Identify the specific data source or data collection instrument, e.g. name of database, clinical registry, collection instrument, etc.):

Consumer Assessment of Health Providers and Systems (CAHPS™) Surgical Care Survey

2a.26 Data source/data collection instrument attached OR **2a.27 at web page URL:**

CAHPS Surgical Care Survey page

<https://www.cahps.ahrq.gov/Surveys-Guidance/Surgical.aspx>

See Attachment A for the instrument.

2a.29 Data dictionary/code table attached OR **2a.30 at web page URL:**

Not available

2a.32 Level of Measurement/Analysis (Check the level for which the measure is specified and tested)

- Clinicians:** Individual Group Other
- Facility/Agency (e.g., hospital, nursing home)
 - Health plan
 - Integrated delivery system
 - Multi-site/corporate chain
- Population:** National Regional/network
- State Counties/Cities

- Prescription drug plan
- Program:** Disease management QIO
- Other
 - Measured at all levels
 - Other (Please describe):

2a.26 Care Settings (Check the settings for which the measure is specified and tested; check all that apply)

Ambulatory Care: Amb Surgery Center Office Clinic Emergency Dept Hospital Outpatient

Note: Although the survey is sampled at the ambulatory care level, there are questions that ask about care received at the hospital or surgical care facility

- Assisted Living
- Behavioral health/psychiatric unit
- Dialysis Facility
- Emergency medical services/ambulance
- Group Home
- Home
- Hospice

- Hospital
- Long term acute care hospital
- Nursing home/ Skilled Nursing Facility (SNF)
- Rehabilitation Facility
- All settings
- Unspecified or "not applicable"
- Other (Please describe):

2a.38 Clinical Services (Healthcare services being measured; all that apply.)

- Behavioral Health:**
- Mental health
 - Substance use treatment
 - Other

- Clinicians:**
- Audiologist
 - Chiropractor
 - Dentist/Oral surgeon
 - Dietician/Nutritional professional

- Physicians (MD/DO)
- Podiatrist
- Psychologist/LCSW
- PT/OT/Speech
- Respiratory Therapy
- Other
- Dialysis
- Home health

- Nurses
- Optometrist
- PA/NP/Advanced Practice Nurse
- Pharmacist

- Hospice/Palliative care
- Imaging services
- Laboratory
- Other Surgery

If the component measures are combined at the patient level and include outcomes, complete the following

2a.12 Risk Adjustment Type: No risk adjustment necessary analysis by subgroup case-mix adjustment
 paired data at patient level risk-adjustment devised specifically for this measure/condition
 risk adjustment method widely or commercially available
 Other (specify) 2a.13

2a.14 Risk Adjustment Methodology/Variables (List risk adjustment variables and describe conceptual models, statistical models, or other aspects of model or method):

The set of variables retained for risk adjustment included:

- Self-reported overall health
- Self-reported overall mental and emotional health
- Age
- Education

Items Used for Case-Mix Adjustment		
Q38	In general, how would you rate your overall health?	Excellent Very good Good Fair Poor
Q39	In general, how would you rate your overall mental or emotional health?	Excellent Very good Good Fair Poor
Q40	What is your age?	18 to 24 years 25 to 34 years 35 to 44 years 45 to 54 years 55 to 64 years 65 to 74 years 75 years or older
Q43	What is the highest grade or level of school that you have completed?	8th grade or less Some high school, but did not graduate High school graduate or GED Some college or 2-year degree 4-year college graduate More than 4-year college degree

2a.15 Detailed risk model attached OR 2a.16 at web page URL:

See pp. 10-15 of the Surgical Patient Experience of Care Survey: Field Test Operations and Results, Attachment C. See also pp.44-52 of the Instructions for Analyzing Data from CAHPS Surveys, Attachment G.

TESTING/ANALYSIS

2i. Component item/measure analysis to justify inclusion in composite

2i.1 Data/sample:

The main field test was conducted in the summer of 2008 and included 96 surgeons in 33 surgical practices across 9 surgical specialties. From the 96 surgeons, 5,627 patients were identified and mailed questionnaires. There were four mailings sent to patients in two waves, or batches.

A supplemental method for field testing was also used: Vision Tree’s HIPAA-compliant optimal care platform. In this test, 100 patients from three surgeons who had a major surgical procedure in the past 3 to 6 months were sent e-mails requesting participation. The survey was accessible through the web portal. Reminder e-mails were sent to the patients on a weekly basis.

Qualitative research both prior (focus groups, cognitive testing, literature review) and following the main field test (focus groups) contributed to the development of the final composite measures (see responses to items, presented below (2i.2)). **The qualitative research methods applied are described in detail in 1d.1 as well as 3a.5 and 3a.6.**

2i.2 Analytic Method:

The following pertains only to the analysis that resulted from the main field test and contributed to the development of an initial test of composites. Equally critical were the qualitative research methods applied which are described in 1d.1 as well as 3a.5 and 3a.6.

We used structural equation modeling (SEM) (Jöreskog, 1978) as implemented by PROC CALIS to evaluate the fit of the data to the structure around which the questionnaire was designed. Although the data were not multivariate normal, we used the maximum likelihood estimation method taking into account that simulation studies suggest that the ML method is likely to result in conservative estimates of model fit, and generous estimates of parameter significance in non-normal data (Tomarken & Waller, 2005). Though it has become common practice to conduct SEM on a covariance matrix derived from polychoric correlations, we treated these data as continuous, consistent with the observed imputed values that comprised a nontrivial amount of the data. Recent simulation studies suggest that rounding imputed values biases estimations (Allison, 2005; Horton, Lipsitz, & Parzen, 2003).

We evaluated the goodness of fit of the model to the data using chi-square, the comparative fit index (CFI), the non-normed fit index (NNFI) and the average root mean square residual approximation (RMSEA). Common current practice with regard to these indicators of model fit is to:

- 1) report chi-square and p-values, but not to reject models where the p-value is < 0.05 in data sets with greater than 250 observations;
- 2) require RMSEA to be less than 0.10, and ideally less than 0.06; and
- 3) require the CFI and NNFI to be greater than 0.90 (Kenny, 2003; Marsh, Hau & Wen, 2004).

With respect to the last criterion, some argue that CFI and NNFI indices should be 0.95 or higher (Hu & Bentler, 1999).

To guard against introducing variance due to mode, we conducted the analysis on the mail mode

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data only. Because these data did not conform to the originally hypothesized structure (CFI and NNFI both fell far short of 0.90), we turned to exploratory analyses to identify a more plausible composite structure. Again, we conducted these analyses on the mail mode data and used the data set comprised of the first imputation only. In subsequent analyses we examine the robustness of the identified composite structure in a data set that included the web mode responses (the sample size of the web mode precluded a separate analysis on web data only), as well as a data set based on another imputation.

Consistent with standard CAHPS methodology, we conducted exploratory factor analysis on the correlation matrix using the principle factor method with squared multiple correlations as initial communality estimates and oblique rotation (promax) with Kaiser normalization (Hargraves, Hays, & Cleary, 2003; O'Malley, et al., 2005). In determining the number of factors we considered the following statistical information:

- 1) the number of eigenvalues greater than one (Guttman, 1954; Kaiser, 1960),
 - 2) the point at which additional factors explained a trivial amount of variance in the data as evidenced by the scree plot (Cattell, 1966), and
 - 3) the interpretability of the rotated vector, based on simple structure (Thurstone, 1935).
- Simple structure is determined by the pattern of factor loadings observed after rotation. An item conforms to simple structure if it has comparatively larger loadings on one factor and smaller loadings on all others. We considered large loadings to be those greater than 0.40 and small loadings to be no larger than half the size of the larger loading and less than 0.25. Four factor patterns, each based on a different number of vectors met these criteria.

Investigators reviewed the exploratory factor analysis and used the formative research that was conducted to choose from among the candidate composite models. The hypothetical model to be evaluated by the confirmatory factor analysis included 15 items and specified four composites concerning pre-, peri-, and post-surgical communication and quality of interactions with the surgeon's office staff. All t-tests on beta-weights describing the relationship of items to their hypothesized composites were highly significant ($p < 0.0001$), ranging from 0.38 to 0.91 (see Table below).

See also Attachment C: Surgical Patient Experience of Care Survey: Field Test Operations and Results.

2i.3 Results:

I. Initial Model Specifying Measures following main field test

Measure 1: Pre-Surgical Care (Combined current composites 1 and 2 representing experiences before surgery)

- 3 Surgeon or surgeon's staff gives you enough information before surgery?
- 4 Surgeon or surgeon's staff gives easy-to-understand instructions about surgery?
- 9 Surgeon listens carefully to you?
- 11 Surgeon encourages you to ask questions?

Measure 2: Peri-Operative Care (Currently: Surgeon attentiveness on day of surgery)

- 15 Did surgeon visit you before surgery?
- 16 Did visit make you feel more calm and relaxed?
- 21 Did surgeon visit you and discuss the outcome of your surgery?

Measure 3: Post-Surgical Follow-up (Combined current composites 5 and 6, representing experiences after surgery)

- 31 Surgeon or surgeon's staff explains what to expect during recovery?

- 32 Surgeon or surgeon's staff warns you about symptoms that require immediate medical attention?
- 33 Surgeon or surgeon's staff gives you easy-to-understand instructions about what to do during recovery?
- 34 Surgeon makes sure you were physically comfortable after your surgery?
- 37 Surgeon spends enough time with you?
- 39 Surgeon treats you with courtesy and respect?
- Measure 4: Office Staff (Currently: helpful, courteous, and respectful staff at surgeon's office)**
- 43 Staff is as helpful as you thought they should be?
- 44 Staff treats you with courtesy and respect?

Confirmatory factor analysis Model Fit: X_2 , $df = 463, 74$; RMSEA = 0.07; CFI = 0.95; NNFI = 0.93

NOTE: Question numbers and wordings above do not completely correspond with current wording of survey items. Field test used an earlier version of the survey. For more details, see Attachment C, Surgical Care Experience of Care Survey: Field Test Operations and Results.

II. Final Model Specifying Surgical CAHPS Measures (incorporating focus group results after field testing)

- Measure 1. Information to help you prepare for surgery: (2 items) Q3, Q4
- Measure 2. How well surgeon communicates with patients before surgery: (4 items) Q9, Q10, Q11, Q12
- Measure 3. Surgeon Attentiveness on day of surgery: (2 items) Q15, Q17
- Measure 4. Information to help you recover from surgery: (4 items) Q26, Q27, Q28, Q29
- Measure 5. How well surgeon communicates with patient after surgery: (4 items) Q31, Q32, Q33, Q34
- Measure 6. Helpful, courteous, and respectful staff at surgeon's office: (2 items) Q36, Q37
- Measure 7: Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate all your care from this surgeon?: (1 item) Q35

2j. Component item/measure analysis of contribution to variability in composite score

2j.1 Data/sample:

2j.2 Analytic Method:

Because the composite scores are calculated based on equal weighting of the items within each composite, each item contributes equally to the calculation of the composite score. See response to 2i.

2j.3 Results:

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2k. Analysis to support differential weighting of component scores

The composites in this instrument are weighted equally.

2k.1 Data/sample: N/A

2k.2 Analytic Method:

The composites in this instrument are weighted equally.

2k.3 Results: N/A

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2k.4 Describe how the method of scoring/aggregation achieves the stated purpose and represents the quality construct:

The suggested scoring method is based on the proportion of positive responses on each of the items developed to measure the proposed quality constructs. A positive response on any of the question items indicates the extent of the quality that the respondents perceived for each of the constructs being measured.

2k.5 Indicate if any alternative scoring/aggregation methods were tested and why not chosen: N/A

2l. Analysis of missing component scores

2l.1 Data/sample:

The main field test was conducted in the summer of 2008 and included 96 surgeons in 33 surgical practices across 9 surgical specialties. From the 96 surgeons, 5,627 patients were identified and mailed questionnaires. There were four mailings sent to patients in two waves, or batches.

A supplemental method for field testing was also used: Vision Tree’s HIPAA-compliant optimal care platform. In this test, 100 patients from three surgeons who had a major surgical procedure in the past 3 to 6 months were sent e-mails requesting participation. The survey was accessible through the web portal. Reminder e-mails were sent to the patients on a weekly basis. A total of 5,627 patients were selected and 2,750 completed the survey (48.9%).

2l.2 Analytic Method:

During the main field test, to make use of all data for the factor analysis of the composites, we imputed missing data by obtaining maximum likelihood estimates of the covariance matrix under the Missing at Random (MAR) model (Rubin 1976, 1987) using SAS PROC MI. The MAR model is a reasonable way of obtaining a single respondent-level covariance matrix that is consistent with the correlations observed among the respondents to each pair of items (O’Malley, Zaslavsky, Hays et al. 2005).

2l.3 Results:

The range of missing values for question items used in the field test was as follows:

Frequency Missing:

Low: n = 63 (Q3)

High: n = 516 (Q33) *

* See additional percentages of missing responses in the frequency tables appended to Attachment C: Surgical Patient Experience of Care Survey: Field Test Operations and Results, Appendix D, pp 1-15. Please note that the version of the survey tested in the field test is not identical to the final version being submitted to NQF and included in Attachment A, as the instrument underwent a series of refinements based on the results of the field tests, cognitive testing and focus groups. Also note that items 9, 12, 36, 39, and 44 from the field test appear to have high numbers of missing values because they were only tested on a subset of field test participants.

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2b. Reliability testing of composite score

2b.1 Data/sample *(description of data/sample and size):*

The main field test was conducted in the summer of 2008 and included 96 surgeons in 33 surgical practices across 9 surgical specialties. From the 96 surgeons, 5,627 patients were identified and mailed questionnaires. There were four mailings sent to patients in two waves, or batches.

A supplemental method for field testing was also used: Vision Tree’s HIPAA-compliant optimal care platform. In this test, 100 patients from three surgeons who had a major surgical procedure in the past 3 to 6 months were sent e-mails requesting participation. The survey was accessible through the web portal. Reminder e-mails were sent to the patients on a weekly basis. A total of 5,627 patients were selected and 2,750 completed the survey (48.9% response rate).

2b.2 Analytic Method *(type of reliability & rationale, method for testing):*

To look at reliability, internal consistence reliability (alpha) was estimated. This is a measure of how well items in a composite hang together. Composites should have an alpha of .70 or greater to be considered reliable.

2b.3 Testing Results *(reliability statistics, assessment of adequacy in the context of norms for the test conducted):*

The initial field test analysis arrived at 4 composites: care before surgery, care during surgery, care after surgery, and office staff. Subsequent focus group research with consumers increased the number of composites to the 8 listed below. Based on the results of the psychometric analysis of the items below, ACS recommended the use of the first 6 of the composites below, dropping Shared Decision Making and Anesthesia Care, both of which showed very poor reliability. In addition, one of the question items included in the “Attentiveness” composite was dropped.

The Cronbach’s alpha for each composite measure is as follows:

Results from Multi-Trait Analysis

Composite	# of Items	Alpha	% at Ceiling
1. How Well Surgeon Communicates with Patients Before Surgery	4	0.78	74%
2. How Well Surgeon Communicates with Patients After Surgery	4	0.82	74%
3. Information to Help you Prepare for Surgery	2	0.58	90%
4. Surgeon Attentiveness on Day of Surgery	3	0.66	61%
5. Information to Help you Recover from Surgery	4	0.79	75%
6. Helpful, Courteous, and Respectful Staff at Surgeon’s Office	2	0.82	88%
TOTAL	27	0.87	29%

While the analysis of the ‘Information to Help you Prepare for Surgery’ and ‘Surgeon Attentiveness on Day of Surgery’ composites yielded Alpha values below 0.7, ACS feels strongly that it makes more sense to consumers to separate the communication and care items into different composites. These care and communication items were originally included

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together based on the initial psychometric analysis; however, focus group participants felt these items are very different. Communication skills imply the ability of the surgeon to communicate with the patient regarding concerns, questions, and respect. Care implies the surgeon’s technical skills, abilities, and actions. Consumers felt these were distinct groups of questions that should be kept separate in the reporting composites. Furthermore, some participants only wanted to know about a surgeon’s care and not how he/she communicated with them. Thus, ACS recommends that the communication items and care items remain as separate reporting composites.

The Cronbach’s Alpha values of the ‘How Well Surgeon Communicates with Patients before Surgery,’ ‘How Well Surgeon Communicates with Patients After Surgery,’ ‘Information to Help you Recover from Surgery,’ and ‘Helpful, Courteous, and respectful staff at Surgeon’s office’ are all above the generally accepted 0.70 standard, indicating the items ‘hang together’ in their respective composites.

2c. Validity testing of composite score

2c.1 Data/sample (description of data/sample and size):

The main field test was conducted in the summer of 2008 and included 96 surgeons in 33 surgical practices across 9 surgical specialties. From the 96 surgeons, 5,627 patients were identified and mailed questionnaires. There were four mailings sent to patients in two waves, or batches.

A supplemental method for field testing was also used: Vision Tree’s HIPAA-compliant optimal care platform. In this test, 100 patients from three surgeons who had a major surgical procedure in the past 3 to 6 months were sent e-mails requesting participation. The survey was accessible through the web portal. Reminder e-mails were sent to the patients on a weekly basis. A total of 5,627 patients were selected and 2,750 completed the survey (48.9%).

2c.2 Analytic Method (type of validity & rationale, method for testing):

Validity of the composite scores was assessed in the course of the original field test by determining their Pearson correlations with overall ratings of the surgeon. All CAHPS surveys include an overall rating of the providers in question as an overall outcome measure. This is a standard way of accessing validity for all CAHPS measures. Following Cohen (1988) moderate and strong correlations were those above 0.30 and 0.50, respectively.

2c.3 Testing Results (statistical results, assessment of adequacy in the context of norms for the test conducted):

Composite Correlations with Rating of Surgeon

Composite	Sample	
	Web Only	Mail Only
Pre-Surgical (Combined composites 1 and 2, representing experiences <i>before</i> surgery)	.69	.59

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Peri-Operative (Currently: Surgeon Attentiveness on Day of Surgery)	.29	.28
Post-Surgical (Combined composites 4 and 5, representing experiences <i>after</i> survey)	.78	.60
Office Staff (Currently: Helpful, Courteous, and Respectful Staff at Surgeon's office)	.46	.45

According to the criteria described in 2c.2, two of four composites had a large validity coefficient, one had a moderate to large validity coefficient, and one had a validity coefficient approaching a moderate effect size. Similar correlations are not available for composites added later on following qualitative research with consumers.

See also Attachment C: Surgical Patient Experience of Care Survey: Field Test Operations and Results.

2f. Identification of Meaningful Differences in Performance Across Entities

2f.1 Data/sample from Testing or Current Use (*description of data/sample and size*):

Not available

2f.2 Methods to identify statistically significant and practically/meaningfully differences in performance (*type of analysis & rationale*):

Not available

2f.3 Provide Measure Scores from Testing or Current Use (*description of scores, e.g., distribution by quartile, mean, median, SD, etc.; identification of statistically significant and meaningfully differences in performance*):

The main field test performed from June to Sept of 2008 suggests some variability in surgical performance across many of the topic areas addressed by the survey. For a table that includes the minimum and maximum absolute score values as well as average scores and confidence intervals, see Attachment I, Surgeon Level Results from Surgical Care Field Test. See additional frequency tables appended to Attachment C: Surgical Patient Experience of Care Survey: Field Test Operations and Results, Appendix D, pp 1-15. **For some examples, see response to 1b.2.**

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2h. Disparities in Care

2h.1 If measure is stratified, provide stratified results (*scores by stratified categories/cohorts*):

Not applicable. Data not stratified.

2h.2 If disparities have been reported/identified, but measure is not specified to detect disparities, provide follow-up plans:

It is not expected that data will be available. Data is not stratified and there are no plans for analysis of disparities at this time.

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NA

If the component measures are combined at the patient level, complete 2d.

2d. Exclusions Justified

2d.1 Summary of Evidence supporting exclusion(s):

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NA

Expert Input resulted in the exclusions cited above. The Surgical Quality Alliance (SQA) with the assistance of the American College of Surgeons includes a Technical Advisory Panel (TAP) which provided continuous support to the development of the Surgical care Survey from the literature review to final testing. The TAP included 32 members from various surgery and anesthesiology specialty societies, each having technical expertise in the topic of surgical care. Appropriateness of the procedure that triggers sampling was examined to ensure the validity of the sampling methodology to ensure that appropriate procedures were included and excluded.

2d.2 Citations for Evidence: N/A

2d.3 Data/sample (description of data/sample and size): N/A

2d.4 Analytic Method (type analysis & rationale):

The major criteria for selecting patients were having had a major surgery as defined by CPT codes (90 day globals) within 3 to 6 months prior to the start of the survey. Since postsurgical care was an important component of the survey, surveys could not be appropriately administered until an adequate time for experiencing post-surgical care (3 months) had passed. We did not want to administer surveys more than 6 months post-surgery because of concerns about recall bias.

Patients also had to be adults and non-institutionalized. We also asked that their surgery be scheduled, not an emergency procedure. This was because an important component of the survey dealt with pre-surgical office visits – a topic which would not be relevant for most emergency surgeries.

2d.5 Testing Results (e.g., frequency, variability, sensitivity analyses):

Across the nine surgical specialties included in the field test, the sampling criteria identified appropriate procedures. No minor surgeries were included in the sampling frame based on the sampling criteria used.

If the component measures are combined at the patient level and include outcomes, complete 2e.

2e. Risk Adjustment

2e.1 Data/sample (description of data/sample and size):

The major criteria for selecting patients were having had a major surgery as defined by CPT codes (90 day globals) within 3 to 6 months prior to the start of the survey. Since postsurgical care was an important component of the survey, surveys could not be appropriately administered until an adequate time for experiencing post-surgical care (3 months) had passed. We did not want to administer surveys more than 6 months post-surgery because of concerns about recall.

Patients also had to be adults and non-institutionalized. We also asked that their surgery be scheduled, not an emergency procedure. This was because an important component of the survey dealt with pre-surgical office visits – a topic which would not be relevant for most emergency surgeries.

2e.2 Analytic Method (type of risk adjustment, analysis, & rationale):

An initial set of adjusters to evaluate was chosen based on both historical use – some variables, such as health status, age and education, have been subjected to extensive case-mix analysis in other CAHPS studies, and there is ample evidence that they are important case-mix adjusters – and the

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conceptual appropriateness of the variable as an adjuster. The next step was to select a subset of these potential case-mix adjusters for further analysis. The strength of the relationship of each regression in which each potential adjuster was regressed onto three global ratings of care.

Our initial pool of potential adjusters consisted of the following:

- Age
- Education
- Gender
- Hispanic
- Mode (paper vs. web)
- Form
- Number of Prior Surgeries

Three global measures of care served as the outcome variables in the models:

- The global rating of the surgeon
- The global rating of the anesthesiologist
- The question asking if the results of the surgery were as good or better than expected

Three separate stepwise regression models were estimated in which the potential adjusters listed above were regressed on each of the outcome variables. Variables selected in any of these models formed a core set eligible for final selection. Table 6: Variable Selection summary (p13 in Surgical Patient Experience of Care Survey: Field Test Operations and Results, Attachment C) summarizes the results of the stepwise analysis. For each outcome, we present the parameter estimate for each potential adjuster and indicate which adjusters stayed in the model (i.e., each variable for which the parameter estimate met the retention criterion of being $<.05$).

Of the potential adjusters evaluated, age, education, and the number of prior surgeries were each significantly related to at least one of the ratings. The set of variables retained for further assessment included:

- Age
- Education
- Number of Prior Surgeries

Estimating explanatory power

Predictive power. The next step to assessing the case-mix adjusters was to evaluate the selected variables for their relative unique strength in predicting the global scores. Predictive power was measured as the incremental amount of variance in the global outcomes explained by a potential case-mix adjuster (the predictor) in a step-wise linear regression analysis, controlling for provider and the other variables being assessed as potential case-mix adjusters. Following O'Malley et al. (2005), we report the power of each adjuster to predict this quality rating as the partial r^2 for that adjuster * 1,000. These values are presented in Table 7: Assessing the Impact of Selected Case-mix Adjusters (p14 in Surgical Patient Experience of Care Survey: Field Test Operations and Results, Attachment C).

Case-mix adjuster heterogeneity. Each potential case-mix adjuster was also evaluated for how much patient responses varied across providers compared to the variance of patient responses within providers. Heterogeneity of each potential case-mix variable (predictor) across providers was defined as the ratio of its between-provider variance to its residual within-provider variance. In order to estimate predictor heterogeneity, we ran a separate variance component model with each

potential case-mix adjuster as the outcome, the other adjusters specified as fixed effects, and the provider specified as a random effect. The results are also presented in Table 7: Assessing the Impact of Selected Case-mix Adjusters (p14 in Surgical Patient Experience of Care Survey: Field Test Operations and Results, Attachment C).

Impact. The first step in assessing the impact of each potential adjuster is to calculate the explanatory power (EP) of each variable being assessed – the product of its predictive power and its heterogeneity factor. Adjusters with an EP of at least 0.10 are considered to have the potential to have a noticeable impact on CAHPS scores (Zaslavsky, 1998). To calculate the impact factor, we examined the variance in the three outcome variables across the surgeons (outcome heterogeneity) by estimating a variance component model for each of the three outcomes, with surgeon specified as a single random effect (i.e., we estimated the contribution of Heterogeneity’ in Table 7: Assessing the Impact of Selected Case-mix Adjusters (p14 in Surgical Patient Experience of Care Survey: Field Test Operations and Results, Attachment C).

The explanatory power is divided by the outcome-heterogeneity factor to get the impact factor – a standardized quantitative measure of each case-mix adjusters’ potential impact on the variance of the three global outcomes, standardized to the baseline variance in each of the three outcomes. If an outcome has very little baseline variance across the units of interest (surgeons, in this case), an adjuster with a relatively low EP can potentially have a large impact on that outcome. Conversely, for outcomes that already exhibit substantial variance across the providers, an adjuster would need relatively higher EP to have a noticeable impact. We used a threshold value of 1.0 for the impact factor to screen for potential case-mix variables, following O’Malley et al. (2005). An impact value of 1.0 for the case-mix variable indicates that it has the potential to result in a change in the outcome that is at least equal to the baseline variance in that score across providers.

The variable that has the greatest overall impact on one or more ratings is age. It varies considerably across the surgeons, as indicated by its larger heterogeneity factor, and has the greatest amount of explanatory power with respect to the two global ratings, which is reflected in the EP measures reported in Table 7. Assessing the Impact of Selected Case-mix Adjusters (p14 in Surgical Patient Experience of Care Survey: Field Test Operations and Results, Attachment C). Education, although it has less predictive power and a lower heterogeneity factor than age, meets both the EP and impact criterion for the two global ratings. The adjuster measuring the number of prior surgeries yielded borderline results. The EP for this adjuster was well below the threshold for two outcomes, and the EP of zero for the Anesthesiologist rating was due to the fact that this adjuster had both very low predictive power and a homogeneous distribution across surgeons. However, the impact factor for this adjuster on the two Expectations outcome was close to 1.0 (0.92).

For additional detail see Attachment C, pp10-15: Surgical Patient Experience of Care Survey: Field Test Operations and Results and also pp.44-52 of the Instructions for Analyzing Data from CAHPS Surveys, Attachment G.

2e.3 Testing Results (*risk model performance metrics*):

Age and education are standard CAHPS case-mix adjusters. We found sufficient evidence to recommend both as case-mix adjusters for the Surgical Patient Survey instrument. We found scant evidence to support the use of the number of prior surgeries measure as a case-mix adjuster. While it was a significant predictor of the measure of ‘expectations exceeded outcomes’, both its EP and

impact were below the recommended thresholds. Given these results, and for the sake of parsimony, age, education, and health status (overall and mental), should be used as case-mix adjusters in the analysis and reporting of Surgical Patient Survey data.

Table 7. Assessing the Impact of Selected Case-mix Adjusters

		<i>Rate Surgeon</i>		
<i>Outcome Heterogeneity factor</i>		0.0416		
<i>Case Mix Adjuster</i>	<i>Adjuster Heterogeneity Factor</i>	<i>Predictive Power*</i>	<i>EP*</i>	<i>Impact Factor*</i>
<i>Age</i>	0.3092	7.60	2.35	56.52
<i>Education</i>	0.0811	2.00	0.16	3.90

Note. Criteria for adjuster is EP > 0.1 and Impact > 1.0; EPs > 0.1 are in bold; Impact factors > 1.0 are also bolded.

* Predictive Power = R-square*1,000; Explanatory Power (EP) = heterogeneity * predictive power; Impact Factor =EP/Outcome heterogeneity.

Note: Data for the health status adjuster are not available for the surgical survey in particular but health status is commonly used as an adjuster in many CAHPS surveys.

2e.4 If outcome or resource use measure is not risk adjusted, provide rationale: N/A

TAP/Workgroup: What are the strengths and weaknesses in relation to the subcriteria for *Scientific Acceptability of Measure Properties*?

2

Steering Committee: Overall, to what extent was the criterion, *Scientific Acceptability of Measure Properties*, met?
Rationale:

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3. USABILITY

Extent to which intended audiences (e.g., consumers, purchasers, providers, policy makers) can understand the results of the measure and are likely to find them useful for decision making. ([composite measure evaluation criteria](#))

Eval

3a. Meaningful, Understandable, and Useful Information

3a.1 Current Use: In use Not in use

3a.2 Use in a public reporting initiative (disclosure of performance results to the public at large) (If used in a public reporting initiative, provide name of initiative(s), locations, Web page URL(s). If not publicly reported, state the plans to achieve public reporting within 3 years):

The S-CAHPS measures are not currently used for public reporting. However, the American College of Surgeons (ACS) is currently working to incorporate the S-CAHPS measures into quality programs that are used for public reporting within the next three years. These programs include both the Hospital Outpatient Quality Reporting Program and the ambulatory surgery center (ASC) Quality Reporting Program, as well as other aspects of Medicare’s overall value based purchasing initiative, which are increasingly being used for public reporting. Furthermore, endorsement will allow the survey-based measures to be easily utilized by government or multi-stakeholder organizations which require NQF endorsement, and will help support the integration of the survey into other quality measure composites. Specifically, following NQF endorsement, ACS and the Surgical Quality Alliance (SQA) will be

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positioned to work to have S-CAHPS included in the PQRS. The SQA will also be able to advocate for S-CAHPS incorporation into Physician Compare database, although this process could take more than three years for completion based on CMS' timeline.

Similar to American Board of Internal Medicine, members of the SQA have expressed that their respective medical boards would like to incorporate the S-CAHPS for use in maintenance of certification (MOC). As of 2011, the American Board of Otolaryngology MOC requires assessment of interpersonal and communication skills of surgeons using S-CAHPS or an equivalent survey. Incorporating S-CAHPS into MOC will encourage physicians to build on their patient communication skills by providing feedback from the patient perspective.

More generally, S-CAHPS results are expected to be useful to everyone with a need for information on the quality of surgeons and surgical care, including patients, practice groups, health plans, insurers, and specialty boards. In addition, individuals are also able to provide S-CAHPS performance quality organizations, purchasers, and can also self-publish the results. The survey-based composites will identify areas for practice improvement for surgeons and evaluate practice against benchmarks. The significance in NQF-endorsement of the S-CAHPS is that it will allow for the capture of value by insurers and patients.

3a.3 If used in other programs/initiatives (*If used in quality improvement or other programs/initiatives, name of initiative(s), locations, Web page URL(s). If not used for QI, state the plans to achieve use for QI within 3 years*):

See answer above.

Testing of Interpretability (*Testing that demonstrates the results are understood by the potential users for public reporting and quality improvement*)

3a.4 Data/sample (*description of data/sample and size*):

Focus groups: first round

American Institutes for Research conducted six focus groups to identify important quality issues inherent in patients' experiences of surgical care. Four focus groups were originally scheduled for October 2007, and two more were added in December 2007 after the SQA's TAP expressed concerns that complex major surgeries were not equally represented by participants. In total, 49 people participated in the focus groups, all of whom were 18 years of age or older and had undergone a surgical procedure billable with a 90-day global fee¹ within the last 7 months. The groups were diverse both demographically and in the type of surgery. For recruiting the additional two groups of patients with more complex surgeries, each participant had their surgery in a hospital and stayed overnight for at least one night.

Cognitive testing

Participants were recruited to represent a variety of surgical patient respondents. The first round of interviews included 17 participants: 11 English speakers and 6 Spanish speakers. In the second round of interviews, the revised version of the questionnaire was administered to 13 participants: 9 English speakers and 4 Spanish speakers.

Focus groups: second round

Two additional focus groups were conducted in early February 2010, involving eight participants. These participants were diverse demographically and had undergone non-emergency surgery within the past six months.

3a.5 Methods (*methods, e.g., focus group, survey, QI project*):

Focus groups: first round

Three focus groups were hosted in Palo Alto, CA and three were hosted in Washington, DC. Each group lasted about two hours and followed a set protocol led by a trained moderator. The protocol included discussion on the following topics: pre-surgical visits, admissions process and pre-surgery interactions, anesthesiology, surgery and in-hospital recovery, post-surgery visits, and characteristics of good and bad surgeons. Additionally, one of the initial 4 focus group and one of the “major” surgery groups discussed survey experience. After discussion about each topic, the groups were asked to create a list of characteristics of “good” and “bad” surgeons. The most common characteristics of surgeons associated with high or low quality of surgical care included: interpersonal manner, expertise/technical competence, and skill in communicating or providing health information and patient education. Next, each participant was given a pre-printed list of surgeon characteristics and asked to vote on the five most important. Good surgical skills received the highest number of votes, followed by patient involvement in making choices about treatments, treats patient with courtesy and respect, takes time to answer patient’s questions, and prepares patient well for surgery.

Cognitive testing

Extensive cognitive testing of the draft survey instruments was conducted. The cognitive testing suggests how respondents understand and formulate answers to the survey items, thus highlighting problems or issues in the questionnaire. After a draft survey was developed in both English and Spanish, the cognitive testing was initiated. There were two rounds of interviews, both occurring in March 2008. Each interview was conducted by a trained cognitive interviewer and followed an IRB approved protocol developed by AIR, Westat, and ACS.

Two versions of the draft survey were tested in both languages in this round, each having a different question order. The intent was to test whether a chronological question order was easier to respond to than one that anchored first on the most salient event (day of surgery) and then asked about pre- and post-surgical experiences. Before each interview, the participants were given consent forms and trained with exercises to help practice thinking out loud. Throughout the session, the interviewer took detailed notes and probed the respondent on both general and item-specific issues.

In the second round of interviews, the revised survey was used to determine if the modifications from the first round were positive enhancements.

Focus groups: second round

The American College of Surgeons (ACS) developed a cross-surgical version of the Consumer Assessment of Healthcare Providers and Systems (CAHPS) Surgical Survey. Upon submission of the surgical survey, the Agency for Healthcare Research and Quality (AHRQ) completed focus groups to test the reporting composites with surgical patients. Using a structured interview protocol, all focus group participants were asked about their use of quality information, to create composites, to analyze the researcher’s composites, to create titles for the composites, and to discuss any additional information that would be useful when choosing a surgeon.

3a.6 Results (*qualitative and/or quantitative results and conclusions*):Focus groups: first round

After the focus groups were conducted, the AIR project director, senior research analyst, and research analyst examined the notes and focused in on each of the above issues. They gathered recurring themes and issues into a report of results, used to develop insights about what patients feel

characterizes quality surgical care. The three main domains were surgeon's interpersonal skills and behaviors, surgeon's expertise/technical competence, and surgeon's skill in communicating or providing health information and patient education. The results of the focus groups and the surgical patients' experiences of care ultimately guided development of the surgical survey. Though patients rated technical skill of the surgeon as highly relevant to quality, it was determined that patients are not the best reporters of technical surgical expertise, so this was not included as a domain in the survey instrument.

The second round of cognitive interviews tested the revised instrument. The new simplified section headings functioned well, giving respondents better understanding about events in question. Conversion of the never-always items to yes-no scale reduced response variation in the second round, especially with regards to items dealing with "courtesy and respect" and "listening carefully to you." It was not determined if the decreased response variation for these items was due to respondent satisfaction, or decreased item sensitivity. Therefore, it was recommended to create 2 difference versions of the survey to be administered in the field test, with behavioral frequency items and yes/no items. Using a post-operation screener in round 2 was helpful for those participants who did not have contact with their surgeon after a procedure, proving to be another positive enhancement to the draft survey. The combination of all items regarding staff did not eliminate confusion among respondents. 5 out of the 13 participants in round 2 did not include clerks and receptionists in their staff judgments; therefore, it was recommended to define staff in an introductory sentence in the question. The chronological ordering of the survey did not produce any confusion or questions for the round 2 participants, and it was decided to continue with this format.

Other major changes made to the draft survey as a result of the cognitive interviews include adding "don't know" as a response option to some items in the survey and Spanish language translations. The item that was not resolved in the cognitive testing was the graduated yes-no scale versus the never-always scale. In order to further test these items, alternate versions of the survey was created for the field testing. In addition to the question of which scale, another issue surrounding the yes-no scale is the positive to negative versus negative to positive wording. In previous CAHPS surveys, behavioral frequency items are worded in a negative to positive method in an effort to minimize the ceiling effects. Adversely, yes-no items are worded in a positive to negative manner because participants are used to a yes-no scale rather than a no-yes scale. This decision may increase the likelihood of ceiling effects, and thus, 2 versions of the survey were administered for the field test in order to determine which order to use.

Overall, the cognitive testing highlighted some major issues in the draft survey. The issues were discussed in Round 1 and the survey was modified. The recommendations were then tested in Round 2 of cognitive interviews and those results were studied to determine if the changes made positively addressed the issues identified in Round 1. We used the Flesch-Kincaid readability scale to determine the reading level of the survey. It took several iterations to lower the reading level to an acceptable level, but the surgical survey eventually reached a reading level of grade 6.7. A sufficiently accessible reading level is critical to making the survey appropriate to lower literacy respondents.

Cognitive testing:

Following the first round of interviews, the Principal Investigator reviewed and summarized the participants' responses. All findings were discussed with the interviewers and senior staff. As a result of the first round of interviews, recommendations for changes were made to the draft survey. These changes included both general issues and item specific issues. Some of the general issues included:

linguistic simplification of section headings, elimination of introductory sentences, elimination of all never-always items by converting them to yes-no items, use of post-operation visits as a screener, combination of all items regarding staff at the surgeon’s office, use of the chronological ordering, and testing of alternative wordings with Spanish speaking participants. The item-specific issues included some wording changes in order to clarify questions and possible deletions of some items. As a result of these issues, a revised survey was created.

Focus groups: second round

The American College of Surgeons contracted with American Institutes for Research (AIR) to conduct the psychometric analysis of the revised composite structure resulting from the focus groups. The initial Confirmatory Factor Analysis (CFA) run on the full structure indicated a mediocre fit between the data and the hypothesized composite structure. Moreover, the multi-trait analysis of this composite structure showed a problem with the Shared Decision-making (SDM) composite. While the focus groups indicated that this composite was important to consumers, ACS understands that high quality shared decision making items are still new and evolving. Thus, we believe these items should not create a SDM reporting composite, yet they should remain in the survey because they measure important elements for quality improvement. Additionally, based on the psychometric analysis and discussions within the Surgical Quality Alliance (SQA) Technical Advisory Panel (TAP), ACS is not recommending the Anesthesia Care items as a reporting composite. While we believe these items should remain in the survey because anesthesia care is an important factor in the surgical patient’s experience of care, the Anesthesiologist works within the hospital system, and thus, the surgeon cannot adequately control the experiences between patient and anesthesiologist, and should not be measured on such.

As a result of the psychometric analysis of the revised composite structure, ACS recommends the following composites:

1. Surgeon Communication Before Your Surgery
2. Surgeon Communication After Your Surgery
3. Surgeon Care Before Your Surgery
4. Surgeon Care on the Day of Your Surgery
5. Surgeon Care After Your Surgery
6. Clerks and Receptionists at Surgeon’s Office

For additional detail on all interpretability testing, refer to Attachments, D, E, and F.

3b/3c. Relation to other NQF-endorsed measures

Identify similar or related [NQF-endorsed measures](#) to components and/or composite

3b.1 NQF # and Title of similar or related measures:

The CAHPS Clinician & Group Survey (NQF number is 0005) is the closest competing measure. However, the development of the CAHPS Surgical Survey evolved due to limitations of the Clinician & Group Survey in surgical patient populations.

(for NQF staff use) Notes on similar/related [endorsed](#) or submitted measures:

3b. Harmonization

3b.2 Are the component measure specifications harmonized, or if not, why?

In 2011, the CAHPS Consortium reviewed all current CAHPS Surveys to ensure that the best

3b
C
P
M

survey science was reflected in the existing CAHPS surveys. Therefore, lessons that were learned after surveys were developed were integrated into all CAHPS Surveys. This reconciliation process as well as recent development efforts led to the release of the CAHPS Clinician and Group Surveys 2.0 version. The CAHPS Consortium is currently in the process of updating all other CAHPS Surveys for public release, including the CAHPS Surgical Care Survey.

N
NA

3c. Distinctive or Additive Value

3c.1 Describe the distinctive, improved, or additive value this measure provides to existing NQF-endorsed measures:

The SQA reviewed the current CAHPS® Clinician and Group Survey and identified critical gaps in content and approach related to the assessment of surgical care. For example, some critical gaps in the survey include informed consent, shared decision making, anesthesia care, and post-operative instructions and access, all of which are issues consumers find to be very important in surgery. Therefore, the SQA felt that the development of a surgical patient experience survey fit well into the mission to improve the quality of healthcare delivered to surgical patients.

Though the main emphasis of the survey is to measure aspects of surgical quality that are important to consumers and for which consumers are the best source of information, the development of measures specific to surgical care benefits many users, including: patients, practice groups, health plans, insurers, and specialty boards. Each group has a need for information regarding the quality of surgeons and surgical care. Patients will use information from the survey to help make better and more informed choices about their surgical care. Practices, health plans, and insurers will use the surgical survey results for quality improvement initiatives and incentives. Specialty boards may use the survey’s measure results for maintenance of certification purposes.

CAHPS surveys were originally developed to meet the need of consumers for usable, relevant information on quality of care from the patient’s perspective. But they also play an important role as a quality improvement (QI) tool for health care organizations, which can use the standardized data to identify relative strengths and weaknesses in their performance, determine where they need to improve and track their progress over time.

Cultivating the use of CAHPS surveys for QI purposes is one of the key objectives for the CAHPS grants. The CAHPS Improvement Guide is a comprehensive resource for health plans, medical groups, and other providers seeking to improve their performance in the domains of quality measured by CAHPS surveys. The guide may be used to:

- Cultivate an environment that encourages and sustains quality improvement;
- Analyze the results of CAHPS surveys to identify strengths and weaknesses; and
- Develop strategies for improving performance.

This Web-based guide grew out of a report by the Harvard Team that was published by the Centers for Medicare & Medicaid Services in 2003. It can be accessed at:
<https://www.cahps.ahrq.gov/QIguide/>

5.1 Competing Measures If this measure is similar to measure(s) already endorsed by NQF (i.e., on the same topic and the same target population), describe why it is a more valid or efficient way to measure quality:

N/A

3c
C
P
M
N

<p>3d. Decomposition of Composite N/A 3d.1 Describe the information that is available from decomposing the composite into its components:</p> <p>N/A. The composite measures are not combined into an overall composite.</p>	<p>3d C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/></p>
<p>3e. Achieved stated purpose 3e.1 Describe how the scores from testing or use reported in 2f demonstrate that the composite achieves the stated purpose:</p> <p>Cognitive testing, focus groups and the psychometric analyses conducted all suggest that the proposed composite measures accurately access how patients experience surgical care. For additional detail, please refer to the sections above and to Attachments, C, D, E, F and G.</p>	<p>3e C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/></p>
<p>TAP/Workgroup: What are the strengths and weaknesses in relation to the subcriteria for Usability?</p>	<p>3</p>
<p>Steering Committee: Overall, to what extent was the criterion, Usability, met? Rationale:</p>	<p>3 C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/></p>
<p>4. FEASIBILITY</p>	
<p>Extent to which the required data are readily available, retrievable without undue burden, and can be implemented for performance measurement. (composite measure evaluation criteria)</p>	<p>Eval</p>
<p>4a. Data Generated as a Byproduct of Care Processes 4a.1 How are <u>all</u> the data elements that are needed to compute measure scores generated? (Check all that apply)</p> <p><input type="checkbox"/> Data are generated as a byproduct of care processes <u>during</u> care delivery (<i>Data are generated and used by healthcare personnel during the provision of care, e.g., blood pressure, lab value, medical condition</i>) <input type="checkbox"/> Coding/abstraction performed by someone other than person obtaining original information (<i>e.g., DRG, ICD-9 codes on claims; chart abstraction for quality measure, registry</i>) <input checked="" type="checkbox"/> Survey <input checked="" type="checkbox"/> Other (<i>e.g., patient experience of care surveys, provider surveys, observation</i>), Please describe:</p> <p>Data generated by administering the composite measures to surgical patients. The main emphasis of the measures is to access aspects of surgical quality that are important to consumers and for which consumers are the best source of information.</p>	<p>4a C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/></p>
<p>4b. Electronic Sources 4b.1 Are <u>all</u> the data elements available electronically? (elements that are needed to compute measure scores are in defined, computer-readable fields, e.g., electronic health record, electronic claims)</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 4b.2 If no, specify the near-term path to achieve electronic capture by most providers.</p> <p><i>Note: Measure stewards will be asked to specify the data elements for electronic health records at a later date</i></p> <p>Though multiple (mail, web, e-mail, phone) as well as mix mode types of administration are possible and have been tested for the surgical care survey, CAHPS surveys are traditionally primarily delivered in the mail. Electronic databases are created after mail receipt. In-office administration has been tested and abandoned as an effective mode of data collection.</p>	<p>4b C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/></p>
<p>4d. Susceptibility to Inaccuracies, Errors, or Unintended Consequences 4d.1 Identify susceptibility to inaccuracies, errors, or unintended consequences of the measure and describe how these potential problems could be audited. If audited, provide results.</p>	<p>4d C <input type="checkbox"/> P <input type="checkbox"/></p>

<p>Coding, cleaning and analysis instructions included in the Instructions for Analyzing Data from CAHPS Surveys, Attachment G.</p>	<p>M <input type="checkbox"/> N <input type="checkbox"/></p>
<p>4e. Data Collection Strategy/Implementation 4e.1 Describe what you have learned/modified as a result of testing and/or operational use of the composite/component measures regarding data collection, availability of data/missing data, timing/frequency of data collection, patient confidentiality, time/cost of data collection, other feasibility/implementation issues:</p> <p>Selected lessons from Surgical CAHPS field test</p> <ul style="list-style-type: none"> ▪ The overall response rate for the main field test was 48.8%. ▪ Mail invitation yielded the highest response rates. ▪ The range of response by specialty went from 31% for vascular surgery to 60% for ophthalmology. ▪ Thoracic surgeons, who asked their patients to complete a consent form first before releasing their names, had a higher than average response rate (57.0%), but did not have the highest response rate. ▪ The main field test web responders were significantly more likely to be male than female (p < .0001). However, web responders were generally younger. While 23% of the respondents were under 55, 42 of the web respondents were under 55. ▪ Fifty percent of the web responses were completed after receiving the pre-notification letter but prior to receipt of the initial survey. ▪ The response rate for the Vision Tree Field Test was 23.3%. A total of 70 surveys were received, from 3 different surgeons. Response rates, by surgeon, varied substantially – from 4% to 55%. <p>4.2 Costs to implement the measure (costs of data collection, fees associated with proprietary measures):</p> <p>No fees. Standard data collection costs depending of sample size, location, mode of administration.</p> <p>4e.3 Evidence for costs: Not available</p> <p>4e.4 Business case documentation: Not available</p>	<p>4e C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/></p>
<p>If the component measures are <u>combined at the patient level</u>, complete 4c.</p> <p>4c. Exclusions 4c.1 Do the specified exclusions require additional data sources beyond what is required for the numerator and denominator specifications? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes ► If yes, provide justification</p>	<p>4c H <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/></p>
<p>TAP/Workgroup: What are the strengths and weaknesses in relation to the subcriteria for <i>Feasibility</i>?</p>	<p>4</p>
<p>Steering Committee: Overall, to what extent was the criterion, <i>Feasibility</i>, met? Rationale:</p>	<p>4 C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/></p>
<p>RECOMMENDATION</p>	
<p>Steering Committee: Do you recommend for endorsement?</p>	<p>Y <input type="checkbox"/></p>

Comments:	N <input type="checkbox"/> A <input type="checkbox"/>
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CONTACT INFORMATION

Co.1 Measure Steward (Intellectual Property Owner)
 Organization: American College of Surgeons, Division of Advocacy and Health Policy
 Street Address: 20 F Street NW, Suite 1000 City: Washington State: DC ZIP: 20001

Co.2 Point of Contact: First Name: Jill Last Name: Shelly Credentials (MD, MPH, etc.): MPH
 Email: jshelly@facs.org Telephone: 202-672-1507 ext:

Co.3 Measure Developer If different from Measure Steward
 Organization:
 Street Address: City: State: ZIP:

Co.4 Point of Contact: First Name: Last Name: Credentials (MD, MPH, etc.):
 Email: Telephone: ext:

Co.5 Submitter
 Organization: Measure Steward Measure Developer
 First Name: Last Name: Credentials (MD, MPH, etc.):
 Email: Telephone: ext:

Co.6 List any additional organizations that sponsored/participated in measure development:

- 1) AIR
- 2) CAHPS Consortium (Agency for health Care Research and Quality, Yale, RAND and Westat)

The CAHPS surgical survey is in the public domain in the AHRQ surgical CAHPS website and free technical assistance is provided by AHRQ through a contract with Westat.

ADDITIONAL INFORMATION

Ad.1 Workgroup/Expert Panel involved in measure development
Provide a list of workgroup/panel member names and organizations. Describe the group's role in measure development.

Surgical Quality Alliance (SQA) Technical Advisory Panel (TAP):

1. Priscilla Arnold, MD FACS - American Society of Cataract and Refractive Surgery
2. Larissa Temple, MD FACS - American Society of Colon and Rectal Surgeons
3. Laura King, MD – American Academy of Ophthalmology
4. Robin Brody, MD – American Academy of Otolaryngology – Head and Neck Surgery
5. Lee Eisenberg, MD FACS - American Academy of Otolaryngology – Head and Neck Surgery
6. Rahul Shah, MD FACS - American Academy of Otolaryngology – Head and Neck Surgery
7. Robert Haralson, MD FACS – American Academy of Orthopaedic Surgeons
8. Frank Opelka, MD FACS – American College of Surgeons
9. Antony Sidawy, MD FACS - Society for Vascular Surgery
10. Loren Hiratzka, MD FACS – Society for Thoracic Surgery
11. James Hicks, MD – American Society of Anesthesiologists
12. Andrea Pusic, MD FACS - American Society of Plastic Surgeons
13. Sharon Merrick, Staff - American Society of Anesthesiologists
14. Chip Amoe, Staff - American Society of Anesthesiologists
15. Jason Byrd, Staff - American Society of Anesthesiologists
16. Cathy Cohen, Staff - American Academy of Ophthalmology
17. Cherie McNett, Staff - American Academy of Ophthalmology

18. Kristine Schulz, Staff - American Academy of Otolaryngology - Head and Neck Surgery
19. Stephanie Jones, Staff - American Academy of Otolaryngology - Head and Neck Surgery
20. Beth Kosiak, Staff - American Urological Association
21. Suzanne Pope, Staff - American Urological Association
22. Nancey McCann, Staff - American Society of Cataract and Refractive Surgery
23. DeLaine Schmitz, Staff - American Society of Plastic Surgeons
24. Guy Beaumont, Staff – American College of Osteopathic Surgeons
25. Cynthia Shewan, Staff – Society for Thoracic Surgery
26. Elizabeth Hoy, Staff – American College of Surgeons
27. Caitlin Burley, Staff - American College of Surgeons
28. Valerie Oster, Staff - American College of Surgeons
29. Andrea Burling – American Institutes for Research
30. Roger Levine - American Institutes for Research
31. Samantha Sheridan - Westat
32. John Rauch – Westat

The Surgical quality Alliance (SQA) of the American College of Surgeons includes a Technical Advisory Panel (TAP) which provided continuous support to the development of the Surgical care Survey from the literature review to final testing. The TAP included 32 members from various surgery and anesthesiology specialty societies, each having technical expertise in the topic of surgical care.

Ad.2 If adapted, name of original measure: N/A

Ad.3 If adapted, original specifications attachment or **Ad.4** web page URL:

Measure Developer/Steward Updates and Ongoing Maintenance

Ad.6 Year the measure was first released: 2010

Ad.7 Month and Year of most recent revision: October 2011

Ad.8 What is the frequency for review/update of this measure? Periodic, as needed

Ad.9 When is the next scheduled review/update for this measure? TBD

Ad.10 Copyright statement/disclaimers: N/A

Ad.11 Additional Information attachment or web page URL:

List of Attachments:

Attachment A: Consumer Assessment of Healthcare Providers and Systems (CAHPS)TM Surgical Care Survey

Attachment B: Measure Stewart Agreement - Signed

Attachment C: Surgical Patient Experience of Care Survey: Field Test Operations and Results

Attachment D: Surgical CAHPS: Cognitive Testing of the English and Spanish Survey Instruments

Attachment E: Surgical CAHPS focus Groups: Determinants of the Quality of Surgical Experiences

Attachment F: CAHPS Surgical Care Survey Focus Groups: Reports Testing

Attachment G: Instructions to Analyzing Data from CAHPS Surveys

Attachment H: Reporting measures for the CAHPS Surgical Care Survey

Attachment I: Surgeon Level Results from Surgical Care Field Test

Attachment J: CPT Codes

I have checked that the submission is complete and all the information needed to evaluate the measure is provided in the form; any blank fields indicate that no information is provided.

Date of Submission (MM/DD/YY): 10/27/2011

CAHPS[®] Surgical Care Survey

Version: 2.0

Population: Adult

Language: English



File name: 1451a_Surgical_Eng_20.docx
Last updated: October 1, 2011

Instructions for Front Cover

- Replace the cover of this document with your own front cover. Include a user-friendly title and your own logo.
- Include this text regarding the confidentiality of survey responses:

Your Privacy is Protected. All information that would let someone identify you or your family will be kept private. {VENDOR NAME} will not share your personal information with anyone without your OK. Your responses to this survey are also completely **confidential**. You may notice a number on the cover of the survey. This number is used **only** to let us know if you returned your survey so we don't have to send you reminders.

Your Participation is Voluntary. You may choose to answer this survey or not. If you choose not to, this will not affect the health care you get.

What To Do When You're Done. Once you complete the survey, place it in the envelope that was provided, seal the envelope, and return the envelope to [INSERT VENDOR ADDRESS].

If you want to know more about this study, please call XXX-XXX-XXXX.

Instructions for Format of Questionnaire

Proper formatting of a questionnaire improves response rates, the ease of completion, and the accuracy of responses. The CAHPS team's recommendations include the following:

- If feasible, insert blank pages as needed so that the survey instructions (see next page) and the first page of questions start on the right-hand side of the questionnaire booklet.
- Maximize readability by using two columns, serif fonts for the questions, and ample white space.
- Number the pages of your document, but remove the headers and footers inserted to help sponsors and vendors distinguish among questionnaire versions.

Additional guidance is available in **Preparing a Questionnaire Using the CAHPS Clinician & Group Surveys:**

https://www.cahps.ahrq.gov/Surveys-Guidance/CG/~//media/Files/SurveyDocuments/CG/12%20Month/Admin_Survey/1032_cg_preparing_a_questionnaire.pdf

Survey Instructions

Answer each question by marking the box to the left of your answer.

You are sometimes told to skip over some questions in this survey. When this happens you will see an arrow with a note that tells you what question to answer next, like this:

Yes → **If Yes, go to #1 on page 1**

No

Your Surgeon

1. Our records show that the surgeon named below performed surgery on you on the date listed below:

Name of surgeon label goes here
Date of surgery

Is this right?

- ¹ Yes
² No → **If No, go to #38 on page 6**

The questions in this survey will refer to the surgeon named in Question 1 as “this surgeon.” Please think of that surgeon as you answer the survey.

Before Your Surgery

2. Before your surgery, how many office visits did you have with this surgeon?

- ¹ None → **If None, go to #15**
² 1 visit
³ 2 visits
⁴ 3 visits
⁵ 4 to 6 visits
⁶ 7 or more visits

3. A health provider could be a doctor, nurse, or anyone else you would see for health care. Before your surgery, did anyone in this surgeon’s office give you all the information you needed about your surgery?

- ¹ Yes, definitely
² Yes, somewhat
³ No

4. Before your surgery, did anyone in this surgeon’s office give you easy to understand instructions about getting ready for your surgery?

- ¹ Yes, definitely
² Yes, somewhat
³ No

5. During your office visits before your surgery, did this surgeon tell you there was more than one way to treat your condition?

- ¹ Yes
² No

6. During your office visits before your surgery, did this surgeon ask which way to treat your condition you thought was best for you?

- ¹ Yes
² No

7. During your office visits before your surgery, did this surgeon talk with you about the reasons you might want to have the surgery?

- Not at all
- A little
- Some
- A lot

8. During your office visits before your surgery, did this surgeon talk with you about the reasons you might **not** want to have the surgery?

- Not at all
- A little
- Some
- A lot

9. During your office visits before your surgery, did this surgeon listen carefully to you?

- Yes, definitely
- Yes, somewhat
- No

10. During your office visits before your surgery, did this surgeon spend enough time with you?

- Yes, definitely
- Yes, somewhat
- No

11. During your office visits before your surgery, did this surgeon encourage you to ask questions?

- Yes, definitely
- Yes, somewhat
- No

12. During your office visits before your surgery, did this surgeon show respect for what you had to say?

- Yes, definitely
- Yes, somewhat
- No

13. During your office visits before your surgery, did anyone in this surgeon's office use pictures, drawings, models, or videos to help explain things to you?

- Yes
- No → **If No, go to #15**

14. Did these pictures, drawings, models, or videos help you better understand your condition and its treatment?

- Yes, definitely
- Yes, somewhat
- No

Your Surgery

15. After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?

- ¹ Yes
² No → **If No, go to #17**

16. Did this visit make you feel more calm and relaxed?

- ¹ Yes, definitely
² Yes, somewhat
³ No

17. Before you left the hospital or surgical facility, did this surgeon discuss the outcome of your surgery with you?

- ¹ Yes
² No
³ Don't know

Anesthesiology

18. Were you given something so you would not feel pain during your surgery?

- ¹ Yes
² No → **If No, go to #26**

19. Who gave you something so you would not feel pain during your surgery?

- ¹ An anesthesiologist did this
² This surgeon did this → **If This surgeon did this, go to #26**
³ Don't know who did this → **If Don't know who did this, go to #26**

20. Did this anesthesiologist encourage you to ask questions?

- ¹ Yes, definitely
² Yes, somewhat
³ No

21. Did you ask this anesthesiologist any questions?

- ¹ Yes
² No → **If No, go to #23**

22. Did this anesthesiologist answer your questions in a way that was easy to understand?

- ¹ Yes, definitely
² Yes, somewhat
³ No

23. After you arrived at the hospital or surgical facility, did this anesthesiologist visit you before your surgery?

- ¹ Yes
- ² No → **If No, go to #25**

24. Did talking with this anesthesiologist during this visit make you feel more calm and relaxed?

- ¹ Yes, definitely
- ² Yes, somewhat
- ³ No

25. Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?

- 0 Worst anesthesiologist possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best anesthesiologist possible

After Your Surgery

26. Did anyone in this surgeon's office explain what to expect during your recovery period?

- ¹ Yes, definitely
- ² Yes, somewhat
- ³ No

27. Did anyone in this surgeon's office warn you about any signs or symptoms that would need immediate medical attention during your recovery period?

- ¹ Yes, definitely
- ² Yes, somewhat
- ³ No

28. Did anyone in this surgeon's office give you easy to understand instructions about what to do during your recovery period?

- ¹ Yes, definitely
- ² Yes, somewhat
- ³ No

29. Did this surgeon make sure you were physically comfortable or had enough pain relief **after you left the hospital or surgical facility** where you had your surgery?

- ¹ Yes, definitely
- ² Yes, somewhat
- ³ No

30. After your surgery, did you talk with this surgeon by phone or visit the surgeon at his or her office?

- ¹ Yes
- ² No → **If No, go to #35**

31. After your surgery, did this surgeon listen carefully to you?

- ¹ Yes, definitely
- ² Yes, somewhat
- ³ No

32. After your surgery, did this surgeon spend enough time with you?

- ¹ Yes, definitely
- ² Yes, somewhat
- ³ No

33. After your surgery, did this surgeon encourage you to ask questions?

- ¹ Yes, definitely
- ² Yes, somewhat
- ³ No

34. After your surgery, did this surgeon show respect for what you had to say?

- ¹ Yes, definitely
- ² Yes, somewhat
- ³ No

Your Overall Care From This Surgeon

35. Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate all your care from this surgeon?

- 0 Worst surgeon possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best surgeon possible

Clerks and Receptionists at This Surgeon's Office

36. During these visits, were clerks and receptionists at this surgeon's office as helpful as you thought they should be?

- ¹ Yes, definitely
- ² Yes, somewhat
- ³ No

37. During these visits, did clerks and receptionists at this surgeon's office treat you with courtesy and respect?

- ¹ Yes, definitely
- ² Yes, somewhat
- ³ No

About You

38. In general, how would you rate your overall health?

- ¹ Excellent
- ² Very good
- ³ Good
- ⁴ Fair
- ⁵ Poor

39. In general, how would you rate your overall **mental or emotional** health?

- ¹ Excellent
- ² Very good
- ³ Good
- ⁴ Fair
- ⁵ Poor

40. What is your age?

- ¹ 18 to 24 years
- ² 25 to 34 years
- ³ 35 to 44 years
- ⁴ 45 to 54 years
- ⁵ 55 to 64 years
- ⁶ 65 to 74 years
- ⁷ 75 years or older

41. Are you male or female?

- ¹ Male
- ² Female

42. Not counting this surgery, about how many other surgeries have you had?

- ¹ None
- ² 1 surgery
- ³ 2 surgeries
- ⁴ 3 to 5 surgeries
- ⁵ 6 to 9 surgeries
- ⁶ 10 or more

43. What is the highest grade or level of school that you have completed?

- ¹ 8th grade or less
- ² Some high school, but did not graduate
- ³ High school graduate or GED
- ⁴ Some college or 2-year degree
- ⁵ 4-year college graduate
- ⁶ More than 4-year college degree

44. Are you of Hispanic or Latino origin or descent?

- ¹ Yes, Hispanic or Latino
- ² No, not Hispanic or Latino

45. What is your race? Please mark one or more.

- ¹ White
- ² Black or African American
- ³ Asian
- ⁴ Native Hawaiian or Other Pacific Islander
- ⁵ American Indian or Alaska Native
- ⁶ Other

46. Did someone help you complete this survey?

- ¹ Yes
- ² No → **Thank you.**

Please return the completed survey in the postage-paid envelope.

47. How did that person help you? Mark all that apply.

- ¹ Read the questions to me
- ² Wrote down the answers I gave
- ³ Answered the questions for me
- ⁴ Translated the questions into my language
- ⁵ Helped in some other way

Please print: _____

Thank You.

Please return the completed survey in the postage-paid envelope.

Appendix:

E. Surgical Patient Experience of Care Survey: Field Test Operations and Results



AMERICAN INSTITUTES FOR RESEARCH®

Surgical Patient Experience of Care Survey: Field Test Operations and Results

Prepared for:
THE AMERICAN COLLEGE OF SURGEONS

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MARCH 5, 2009

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EXECUTIVE SUMMARY

The American Institutes for Research (AIR) and Westat developed a Cross-Surgical Specialty Version of a surgical patient experience of care questionnaire for the American College of Surgeons (ACS). To inform the development of this instrument, AIR conducted several formative research activities to identify domains of care that are responsible for positive surgical patient care experiences. These activities included conducting a literature review, analyzing “critical incident” data from a Clinician/Group CAHPS study AIR previously completed, and conducting focus groups. Based on these formative activities, draft instruments were created in English and Spanish, cognitive testing was conducted with these draft surveys, and revised draft versions of the surveys were field tested and analyzed.

The draft versions of the Surgical Experience of Care Questionnaire were field tested in the summer of 2008. One major objective of this field test was to determine the psychometric properties of the items and inform the development of reporting composites. Another major objective was to identify items that could be eliminated. In addition, different versions of the questionnaire were created to collect information to inform decisions about:

- Whether five items should be asked as behavioral frequency items (that is, using a never to always response scale) or as graduated yes/no items (that is, using a definitely yes to definitely no response scale) and
- Whether yes/no items should be asked with affirmative response options first or negative response options first.

The main field test was conducted by Westat and involved 96 surgeons in 33 different practices. A total of 5,627 patients were sent questionnaires; 2,750 (48.9 percent) completed the questionnaires. The main field test included Spanish language versions of the instruments and web-based versions of the instruments. Only 3 respondents chose to complete the Spanish language version, precluding any analyses because of sample size considerations. The web version was completed by 465 (17.0 percent) of the respondents. Modality was investigated as a potential case mix adjuster and found to have a negligible impact.

The main field test investigated whether five items should be asked as behavioral frequency items. Since the behavioral frequency items did not have superior psychometric properties in comparison with the analogous graduated yes/no items (and were also less strongly correlated with the global surgeon rating), a decision was made to adopt the graduated yes/no response options for all relevant items. Minimizing the number of different scales in a questionnaire will reduce the cognitive demands of the survey on potential respondents.

A supplemental field test was conducted by Vision Tree, Inc., using the Vision Tree Optimal Care™ (VTOC) portal. Three surgeons were involved; each provided 100 patients. A total of 70 surveys were received. This supplemental field test involved administration of two questionnaire versions to determine if providing response options in an order that begins with the most negative response option (instead of beginning with the most positive response option) would help to minimize ceiling effects. Since no statistically significant differences were found, a decision was made to ask yes/no items with affirmative response options preceding negative ones. This is consistent with general survey practice.

Psychometric analyses indicated that age, education, and number of prior surgeries should be considered as case mix adjusters. These analyses also supported the use of four reporting composites:

- Pre-Surgical Care
- Peri-Operative Care
- Post-Surgical Follow-up
- Office Staff

These analyses also supported the deletion of 14 items from the final version of the instrument.

After the conclusion of data collection, a sample of participating practices was surveyed to identify issues associated with their preparation of a sampling frame for their practice. All respondents felt the instructions that we prepared were easy to understand. They reported sampling frame preparation took between 30 minutes and 5 hours. However, certain requested data elements (e-mail addresses and language preference) were nearly universally unavailable.

BACKGROUND

AIR and Westat obtained prospective approval from their respective Institutional Review Boards (IRBs) for all of the field test activities. This included obtaining a HIPAA waiver to allow participating surgeons to release patient contact information to Westat.

Recruiting

Several surgical specialty associations are co-funding this project with ACS. Representatives from these associations participated in an advisory panel – the Surgical Quality Alliance Technical Advisory Panel or SQA TAP -- that provided input to the project. Between February 2008 and June 2008, Westat worked with the SQA TAP members to recruit surgeons willing to participate in the field test. TAP members drew upon different society-based networks and personal relationships to invite surgeons and surgical practices. Once a surgeon indicated interest, Westat staff followed up to provide information about eligibility and participation requirements. Participating surgeons were asked to provide a list of patients who received a non-emergency 90-day global procedure (and for some surgical specialties, major 0- and 10-day global procedures), with the following information about each patient:

Patient Name	Patient Address
Patient Email (if available)	Emergency/non-emergency
Name of surgeon or anesthesiologist	Date of surgery
CPT codes	Age/date of birth
Surgery setting (hospital, ambulatory care facility, office)	Language (if available)

The original goal was to recruit approximately 60 surgeons who could provide about 100 patients each to provide a sample of approximately 6,000 eligible patients. We wanted equal representation across specialties, recognizing that among the participating specialties there was a great difference in volume of major surgeries (as defined by 90 day global CPT codes). For instance, ophthalmologic surgeons perform far more 90 day global surgeries than thoracic surgeons do. In the end, however, the distribution of patients across specialties was uneven, a by-product of the varying abilities of the TAP members to recruit within their specialty.

None of the surgeons were able to provide e-mail addresses or to provide information about whether patients were Spanish-speakers. Ninety-six surgeons in 33 practices eventually provided usable patient lists. A larger number of surgeons was needed to recruit our goal of 6,000 patients due to low patient volume for several specialties (e.g., thoracic.) In several instances, we declined potential participant surgeons if we already had enough for their specialty (such as colon and rectal, and urology). Table 1 shows the number of practices and individual surgeons recruited by specialty.

Table 1. Sample Characteristics: Types of Patients, by Surgical Specialty

Specialty	Practices	Doctors	Patients Selected	Completions	Response Rate (%)
Colon and Rectal	5	12	706	328	46.5
General Surgery	6	11	935	397	42.5
Ophthalmology	4	6	686	405	59.0
Orthopedic	2	9	701	421	60.1
Otolaryngology	4	9	681	298	43.8
Plastic Surgery	1	1	14	5	35.7
Thoracic	3	10	422	240	56.9
Urology	5	35	1,114	541	48.6%
Vascular	3	3	368	115	31.2%
Total	33	96	5,627	2,750	48.9%

Sample receipt and processing

Each surgeon or practice designated an individual to serve as a point-of-contact in their office. This person coordinated preparation of the patient lists for the study. Each contact was provided with directions for determining eligible patients, and assembling, formatting and transmitting the patient list in an Excel file. The points-of-contact worked closely with a research assistant at the data collection vendor (Westat).

The major criteria for selecting patients were having had a major surgery as defined by CPT codes (90 day globals) within 3 to 6 months prior to the start of the survey¹. Since post-surgical care was an important component of the survey, surveys could not be appropriately administered until an adequate time for experiencing post-surgical care (3 months) had passed. We did not want to administer surveys more than 6 months post-surgery because of concerns about recall.

Patients also had to be adults and non-institutionalized. We also asked that their surgery be scheduled, not an emergency procedure. This was because an important component of the survey dealt with pre-surgical office visits – a topic which would not be relevant for most emergency surgeries. Once the point-of-contact had prepared the files, they transmitted their patient lists securely to an FTP site at Westat.

After patient files were received, they were reviewed and cleaned, and surveys were prepared for mailing. Birthdates were an especially messy variable with several different formats that required standardization. Patients were deemed ineligible and removed from the sample for several reasons: non-matching CPT codes, younger than 18 years of age, and procedures that were outside the desired date range. Other cases were removed from consideration for missing data including those with no surgery dates, a key part of the address missing, or an indication that they were institutionalized.

Other data cleaning prior to mailing included removing duplicate records for patients who had multiple surgeries and for patients who had multiple surgeries with different surgeons within

¹ Thoracic surgeons required their patients to complete a consent form before releasing patients' names and contact information to Westat. This extra safeguard was not deemed necessary by either AIR's or Westat's IRBs, nor was this consent for release of contact information required by HIPAA.

the same practice (i.e., patients should only receive one survey even if they had multiple surgeries with the same or different surgeons.) For those surgeons with more than 125 eligible patients, we randomly sampled 125. For those with less than 125 eligible patients, we sampled all patients.

After the conclusion of the field, a survey was sent to all participating practices to inform about the sampling frame preparation process. A description of this survey and results are summarized in Appendix A.

Data collection

The data collection methodology for the Surgical Care Survey included four separate mailings with an option for sample members to complete a web-based survey at any time during the field period. Surveys were mailed to the sample between July 11 and August 21, 2008. The four mailings included a pre-notification or advance letter, an initial survey packet, a thank-you reminder postcard, and a second survey packet for those who had not yet responded.

As shown in Table 2, the multi-wave survey was carried out in two batches. Although there was a strong desire to perform and manage only one set of mailing activities, a delay in receiving samples from all of the participating surgeons required administration in two waves.

Table 2. Data Collection Operations Schedule

Mailing	Batch 1		Batch 2	
	Date	Count	Date	Count
Pre-notification Letter	7/11/2008	3,323	7/29/2008	2,304
Initial Survey	7/23/2008	3,163	8/5/2008	2,228
Thank You/Reminder Postcard	7/31/2008	3,288	8/14/2008	2,283
Second Survey Mailed	8/12/2008	2,009	8/21/2008	1,555

Both versions of the mail-based and web-based surveys were available in English and in Spanish. Spanish-language surveys were mailed to those sample members who requested one by calling a toll-free support number.

A pre-notification or advance letter was mailed to all sample members using regular first-class U.S. mail. The personalized letter (English-language on one side, Spanish on the reverse), printed on ACS stationary, provided information about the purposes and importance of the study and explained that a survey would be sent in the near future. The letter included the name of the surgeon and the date the procedure of interest was performed. Respondents were to answer the survey about the procedure noted in their letter. Instructions for accessing an Internet version of the survey were provided in the letter. A unique and secure user name and password were assigned to each sample member and printed in the letter. A toll-free telephone number was also provided on the letter. These materials are included as Appendix B.

About 10-12 days after the pre-notification letter was mailed, sample members were sent a survey packet that included a copy of the Surgical Care Survey, a personalized cover letter, and a postage-paid business reply envelope. The cover letter, similar in content to the pre-notification letter, included the name of the physician and the date that the sample member's procedure was performed. The user name and password for accessing the web-based survey was provided. The 8.5 x 11 cover letter was printed in English on one side, and in Spanish on the other. Survey packets were not mailed to those sample members who had already responded to the web-based questionnaire (which was referenced in the pre-notification letter) or who were

deemed to be ineligible for other reasons (e.g., deceased). The postage-paid business reply envelope was included with the mailing to increase response rates and so that respondents did not incur any cost for participating in the survey.

All sample members were mailed a thank you/reminder postcard about 10 days after the initial survey packet was mailed. The postcard thanked those who had already responded, but reminded non-respondents to complete and return their mail questionnaire or to participate using the web-based survey. Postcards were not mailed to sample members whose address was known to be invalid.

A final survey packet was mailed to all survey non-respondents about one month after the initial survey packet was sent. Sample members who had returned their initial questionnaire, had completed the web-base survey, or who were identified as being ineligible, were excluded from this final mailing. As shown in Table 2 (without regard to those sample members identified as being ineligible), it was necessary to mail a second survey packet to more than 60 percent of the sample. In some instances, a mail survey may have been sent to those who already completed their questionnaire because the web-based survey was completed just after the survey packets were prepared and mailed, or because the completed mail survey was not yet received at the time the mailing was sent.

Embedded experiments

Embedded experiment: Use of never-always response scale vs. use of graduated yes-no scales. Cognitive testing revealed significant problems with the use of the standard CAHPS behavioral frequency scale for many of the items (Levine et al., 2008). Many of these difficulties reflected the fact that patients were frequently reporting about a single experience in relation to pre-, peri-, and post-operative meetings with their surgeons, in contrast to the typical case of having multiple contacts with other types of health care providers (such a primary care physicians). Accordingly, most of the items in the field test version of the survey used either a graduated yes/no scale (definitely yes, somewhat yes, somewhat no, and definitely no), a dichotomous yes/no scale, or a 0 – 10 global rating scale. However, for five items, either a graduated yes/no scale or the standard CAHPS behavioral frequency scale (never-sometimes-usually-always) appeared to be appropriate.

We wished to minimize the number of scales, but did not want to minimize the instrument's ability to discriminate between surgeons. So, two unique versions of the survey were produced. One version asked five questions in the form of a behavioral frequency question; the other version asked the same items with a graduated yes/no scale. Each sample member was randomly assigned, within surgeon, to receive one of the two surveys, to allow field test results to inform a decision about how to ask these items. These surveys are included as Appendix C.

Embedded experiment: Order of graduated yes-no items. CAHPS surveys use a behavioral frequency scale, with response options ordered in a negative (never) to positive (always) direction. This ordering is intended to reduce ceiling effects that are associated with satisficing². However, yes/no CAHPS items provide response options in a positive (yes) to negative (no) order. This is the normal way of asking yes/no questions. Cognitive testing results

² Satisficing is a term that reflects a respondent's tendency to choose the first reasonable answer rather than the "best" answer when provided a list of response options.

raised some concerns about response variability, leading to the hypothesis that re-ordering the yes/no response options might similarly reduce ceiling effects.

An ancillary experiment to test this hypothesis was conducted with three surgical practices that employ the Vision Tree Optimal Care™ (VTOC) platform. VisionTree's HIPAA-compliant VTOC platform was used to administer surveys in a Web-based format with three patient email reminders. This allowed patients to complete the survey from the comfort of their homes or any Internet-accessible location.

In this experiment, two versions of the survey were also prepared. These were versions of the "Graduated Yes/No" survey used in the other embedded study. One of the versions ordered the response options in the standard way; the other version ordered the items in the opposite direction. Survey versions were randomly assigned to patients, within surgeon.

The patients of three surgeons who had had a major surgical procedure in the last 3 to 6 months were sent an e-mail inviting participation. One hundred patients of each surgeon who met the eligibility criteria were invited to participate. In order to take the survey, these patients had to go to their web portal and click on a survey button. Reminder e-mails were sent on a weekly basis.

Sample performance

The overall response rate for the main field test was 48.8%. Of the 5,627 patients who were contacted to participate, 2,750 returned completed surveys by mail or web. 465 surveys were completed by web, 17% of the total completes. Ineligible cases included postal non-deliverables (190), patient is now deceased (43), and either different surgeons or surgeries (4).

The range of response by specialty went from 31% for vascular surgery to 60% for ophthalmology. Thoracic surgeons, who asked their patients to complete a consent form first before releasing their names, had a higher than average response rate (57.0%), but did not have the highest response rate.

The main field test web responders were significantly more likely to be male than female ($p < .0001$). There were no differences in response modality choice by race or ethnic group. However, web responders were generally younger. While 23% of the respondents were under 55, 42 of the web respondents were under 55. Nonetheless, 25% of the web responders were in the 55 to 64 age group and 34% were 65 and older. Fifty percent of the web responses were completed after receiving the pre-notification letter but prior to receipt of the initial survey.

The response rate for the Vision Tree Field Test was 23.3%. A total of 70 surveys were received, from 3 different surgeons. Response rates, by surgeon, varied substantially – from 4% to 55%.

FIELD TEST RESULTS

Overall response frequencies for the pilot test survey items are provided as Appendix D.

Embedded experiment: Use of never-always response scale vs. use of graduated yes-no scales.

Pilot test Forms A and C differed with respect to five questions (questions 9, 12, 36, 39 and 44). On Form A, these questions had a graduated yes/no response scale (4=definitely yes, 3=somewhat yes, 2=somewhat no, 1=definitely no). On Form C, these questions had a behavioral frequency response scale (4=always, 3=usually, 2=sometimes, 1=never). We built

this experiment into the data collection to determine whether the behavioral frequency response scale would have measurement properties that were superior enough to justify its use. The Surgical Care Survey addresses a limited number of encounters with a provider and so most of the other questions on the form have a graduated yes/no response scale. Survey design principles recommend limiting the number of different response scales within one survey. The behavioral frequency response scale should be included only if it has consistently superior measurement properties when compared to the graduated yes/no scale.

The skewness statistics in Table 3 indicated that for all five questions, the behavioral frequency response scale has better distributional properties (less negative skew) than the graduated yes/no scale. According to t-statistics on the difference between mean values and chi-square statistics of the differences in frequency of response, the distribution of the behavioral frequency response scales were significantly less negatively skewed than that of the graduated yes/no scales. We then examined whether this difference in data distributions translated into a practical difference in terms of the validity (correlation of responses with the global rating of surgeon) and reliability (practice-level reliability) of the questions. In four out of five cases, the unit-level reliability and the correlation of the item with the global surgeon rating is higher for the graduated yes/no items compared to the behavioral frequency items. The superior distributional properties for the behavioral frequency scales do not mean that these scales are “better” (more precise, more representative of quality) than the endorsement scales.

Table 3. Comparisons of Behavioral Frequency and Graduated Yes/No Response Scales

Question	Property	Response Scale Type		Statistic	Probability
		Behavioral Frequency	Graduated Yes/No		
Q9. Did this surgeon listen carefully to you? (before surgery)	Mean	3.74	3.85	t = 5.53	< 0.0001
	Skewness	-2.37	-3.43		
	% 1	0.8	0.6	$X^2 = 34.99$	< 0.0001
	% 2	3.5	1.0		
	% 3	16.2	11.0		
	% 4	79.5	87.4		
R w/	.49	.56			
ULR	.57	.65			
Q12. Did this surgeon treat you with courtesy and respect?	Mean	3.89	3.95	t = 3.98	< 0.0001
	Skewness	-4.50	-6.70		
	% 1	0.5	0.2	$X^2 = 17.84$	0.0005
	% 2	1.4	0.3		
	% 3	5.8	3.5		
	% 4	92.3	95.98		
	R w/	.48	.44		
ULR	.33	.51			
Q36. Did this surgeon listen carefully to	Mean	3.76	3.84	t = 3.70	0.0002
	Skewness	-2.57	-3.50		
	% 1	1.0	0.9	$X^2 = 17.35$	0.0006
	% 2	4.8	2.1		
% 3	11.7	9.0			

Question	Property	Response Scale Type		Statistic	Probability
		Behavioral Frequency	Graduated Yes/No		
	% 4	82.6	87.9		
	R w/	.52	.62		
	ULR	.27	.37		
Q39. Did this surgeon treat you with courtesy and respect?	Mean	3.88	3.93	t = 2.55	0.0109
	Skewness	-4.18	-5.99		
	% 1	0.4	0.7	X ² = 15.90	0.0012
	% 2	1.9	0.4		
	% 3	5.8	4.2		
	% 4	91.7	94.7		
	R w/	.54	.58		
ULR	.28	.47			
Q44. Did the surgeon's staff treat you with courtesy and respect?	Mean	3.85	3.89	t = 2.32	0.0202
	Skewness	-3.21	-4.43		
	% 1	0.2	0.7	X ² = 15.26	0.0016
	% 2	2.3	1.0		
	% 3	9.4	6.9		
	% 4	88.1	91.4		
	R w/	.42	.44		
ULR	.35	0			

Since the behavioral frequency scales were not superior to the graduated yes/no scales and since their elimination would simplify the cognitive demands of the instrument, we decided in favor of the graduated yes/no version of these five questions. Because the mean values of these five questions are significantly different between Forms A and B, we did not pool the data for the remaining analyses. In subsequent sections on the development of composites, we discuss analysis of Form A data only.

Embedded experiment: Order of graduated yes-no items.

Both dichotomous and graduated yes/no items were compared. Due to sample size limitations, only items that were answered by all respondents were analyzed. Dichotomous items were compared through the use of chi-squared tests; graduated yes/no items were recoded and analyzed through the use of t-tests. The following recoding was used:

- Definitely no = 1
- Somewhat no = 2
- Somewhat yes = 3
- Definitely yes = 4

Results are presented in Tables 4 and 5.

Table 4. Mean Responses to Graduated Yes/No Items as a Function of Order

Item #	Order		Difference	Significance level
	No → Yes	Yes → No		
2	3.80	3.87	-.07	.454
3	3.87	3.84	.03	.822
4	3.97	3.92	.04	.431
31	3.60	3.59	.01	.970
32	3.57	3.66	-.09	.568
33	3.80	3.66	.14	.264
34	3.87	3.74	.13	.268
43	3.80	3.86	-.07	.484
44	3.90	3.97	-.07	.245
48	3.90	3.79	.11	.342
49	3.87	3.76	.10	.394
51	3.80	3.82	-.02	.903
Total	3.81	3.79	.02	.787

Table 5. Percentage “Yes” Responses to Yes/No Items as a Function of Order

Item #	Order		Difference	Significance level
	No → Yes	Yes → No		
15	93.3	86.8	6.5	.382
17	17.2	23.7	-6.4	.520
19	100.0	94.6	5.4	.196
21	96.7	86.8	9.9	.156
23	100.0	100.0	0	-
40	43.3	31.6	11.7	.318
Total	71.4	71.1	0.3	.902

There was no evidence that the order had any impact on response. Accordingly, we chose to use the traditional CAHPS order of Yes to No. We felt that the use of a traditional order would help to keep the items as cognitively simple as possible.

CASE MIX ANALYSIS RESULTS

Background

In order to compare the providers included in this study, it is important to control for the influence of patient characteristics on the outcome variables (composite scores and ratings). Past research has shown that some types of patients, such as older patients, or patients in better health, tend to give higher ratings than other types of patients (O’Malley, Zaslavsky, Elliott, Zaborski, & Cleary, 2005). Conversely, patients with more education or poorer health tend to give lower ratings of their health care experiences. These are characteristics of the patients that are related to the CAHPS scores, but are not within the control of the provider. Nor are they believed to reflect true differences in the quality of care delivered.

When comparing one surgeon to another, the differences should derive entirely from differences in the quality of care they provide. However, if the differences derive in part from differences in their patient populations, rather than entirely from differences in the quality of care they deliver, it is important to remove the portion of the scores that come from patient characteristics so that comparisons accurately reflect differences in quality.

Thus, the three basic goals of case-mix adjustment in the analysis of patient assessments of care are to:

1. Help remove the effects of individual patient characteristics that can affect ratings,
2. Remove effects that might be considered spurious (i.e., that reflect something other than quality of care), and
3. Remove incentives for providers to avoid “hard to treat” patients (Zaslavsky, 1998).

Zaslavsky (1998, p.58) outlines three conditions to be met in the selection of variables for case-mix adjustment:

1. Within the agencies, the case-mix variables must be related to the outcome measures (ratings). That is, the variables must have sufficient *predictive power* in relation to the outcomes (e.g., older patients give higher ratings of their care).
2. There must be variation between agencies on the case-mix variables. That is, the variables must be unevenly distributed across providers (e.g., one surgeon might treat patients that tend to be much younger than the patients of another surgeon). This condition is the *heterogeneity factor* of the predictor.
3. The case-mix variables must be appropriate for adjustment because they are not themselves determined by the provider’s actions. That is, they must be characteristics that are brought to the provider by the patient (e.g., age or education), not characteristics that might be consequences of the patient’s satisfaction with, or assessment of, the provider (e.g., length of relationship with the provider – patients who are happy with their personal doctor tend to stay with that personal doctor for longer).

The case-mix analysis proceeds through the following steps:

1. Selection of potential case-mix adjusters
2. Estimation of predictive power of the selected adjusters
3. Estimation of heterogeneity (the degree to which the adjusters vary across providers)
4. Calculation of explanatory power and impact of each adjuster

Variable selection

We chose an initial set of adjusters to evaluate based on both historical use – some variables, such as age and education, have been subjected to extensive case-mix analysis in other CAHPS studies, and there is ample evidence that they are important case-mix adjusters – and the conceptual appropriateness of the variable as an adjuster. The next step was to select a subset of these potential case-mix adjusters for further analysis. The strength of the relationship of each

potential adjuster to overall ratings of provider care quality was evaluated using step-wise regression in which each potential adjuster was regressed onto three global ratings of care.³

Our initial pool of potential adjusters consisted of the following:

- Age (q53)
- Education (q56)
- Gender (q54)
- Hispanic (q57)
- Mode (paper vs. web)
- Form (A vs. C)
- Number of Prior Surgeries (q55)⁴

Three global measures of care served as the outcome variables in the models:

- The global rating of the surgeon (q50),
- The global rating of the anesthesiologist (q30)
- The question asking if the results of the surgery were as good or better than expected (q51)

Three separate stepwise regression models were estimated in which the potential adjusters listed above were regressed on each of the outcome variables.⁵ Variables selected in any of these models formed a core set eligible for final selection. Table 6 summarizes the results of the stepwise analysis. For each outcome, we present the parameter estimate for each potential adjuster and indicate which adjusters stayed in the model (i.e., each variable for which the parameter estimate met the retention criterion of being $<.05$).

Of the potential adjusters evaluated, age, education, and the number of prior surgeries were each significantly related to at least one of the ratings. The set of variables retained for further assessment included:

- Age (q53)
- Education (q56)
- Number of Prior Surgeries (q55)

³ The stepwise method is a modification of the forward-selection technique and differs in that variables already in the model do not necessarily stay there. As in the forward-selection method, variables are added one-by-one to the model, and the F-statistic for a variable to be added must be significant at the inclusion p-level. After a variable is added, however, the stepwise method looks at all the variables already included in the model and deletes any variable that does not produce an F-statistic significant at the exclusion (retention) p-level. Only after this check is made and the necessary deletions accomplished can another variable be added to the model. The stepwise process ends when none of the variables outside the model has an F statistic significant at the inclusion p-level and every variable in the model is significant at the retention p-level, or when the variable to be added to the model is the one just deleted from it. We set both the inclusion and exclusion p-value criteria at 0.05.

⁴ Health status was excluded as a potential case-mix adjuster due to concerns about its appropriateness. This issue is explained in greater detail in the Recommended variables for case-mix section of this report. Language was also excluded since only three individuals completed the Spanish language version of the survey.

⁵ Age, education, and the number of prior surgeries were treated as continuous variables. All other variables were dummy-coded and entered into the model as indicator variables with a value of 1 or 0. For gender, female is the reference category; for the Hispanic variable, non-Hispanic is the reference category; for mode, web is the reference category; for Form, version C is the reference category.

Table 6. Variable Selection Summary

	Global Rating of Surgeon (q50)		Global Rating of Anesthesiologist (q30)		Results Exceeded Expectations (q51)	
	n = 2,418		n = 2,035		n=2,424	
<i>Potential Adjusters</i>	<i>Parameter Estimate</i>	<i>Met Selection Criteria</i>	<i>Parameter Estimate</i>	<i>Met Selection Criteria</i>	<i>Parameter Estimate</i>	<i>Met Selection Criteria</i>
Age (q53)	0.09	yes	0.06	yes	0.02	a
Education (q56)	-0.03	a	-0.07	yes	-0.00	a
Gender: Male	-0.02	a	0.05	a	0.05	a
Hispanic (q57)	0.28	a	0.21	a	0.13	a
Mode: Paper	0.00	a	-0.04	a	0.00	a
Form: A	-0.03	a	-0.12	a	0.03	a
Number of Prior Surgeries (q55)	0.02	a	0.02	a	-0.03	yes

Note. Parameter estimates in boldface are those that met the retention p-value criterion ($p < 0.05$); a = failed to meet inclusion p-value criterion ($p < 0.05$).

Estimating explanatory power

Predictive power. The next step to assessing the case-mix adjusters was to evaluate the selected variables for their relative unique strength in predicting the global scores. Predictive power was measured as the incremental amount of variance in the global outcomes explained by a potential case-mix adjuster (the predictor) in a step-wise linear regression analysis, controlling for provider and the other variables being assessed as potential case-mix adjusters. Following O'Malley et al. (2005), we report the power of each adjuster to predict this quality rating as the partial r^2 for that adjuster * 1,000. These values are presented in Table 7.

Case-mix adjuster heterogeneity. Each potential case-mix adjuster was also evaluated for how much patient responses varied across providers compared to the variance of patient responses within providers. Heterogeneity of each potential case-mix variable (predictor) across providers was defined as the ratio of its between-provider variance to its residual within-provider variance. In order to estimate predictor heterogeneity, we ran a separate variance component model with each potential case-mix adjuster as the outcome, the other adjusters specified as fixed effects, and the provider specified as a random effect. The results are also presented in Table 7.

Impact. The first step in assessing the impact of each potential adjuster is to calculate the explanatory power (EP) of each variable being assessed – the product of its predictive power and its heterogeneity factor. Adjusters with an EP of at least 0.10 are considered to have the potential to have a noticeable impact on CAHPS scores (Zaslavsky, 1998). To calculate the impact factor, we examined the variance in the three outcome variables across the surgeons (outcome heterogeneity) by estimating a variance component model for each of the three outcomes, with surgeon specified as a single random effect (i.e., we estimated the contribution of

surgeon to the variance in the outcomes). This value is presented in the row labeled ‘Outcome Heterogeneity’ in Table 7.

The explanatory power is divided by the outcome-heterogeneity factor to get the impact factor – a standardized quantitative measure of each case-mix adjusters’ potential impact on the variance of the three global outcomes, standardized to the baseline variance in each of the three outcomes. If an outcome has very little baseline variance across the units of interest (surgeons, in this case), an adjuster with a relatively low EP can potentially have a large impact on that outcome. Conversely, for outcomes that already exhibit substantial variance across the providers, an adjuster would need relatively higher EP to have a noticeable impact.

We used a threshold value of 1.0 for the impact factor to screen for potential case-mix variables, following O’Malley et al. (2005). An impact value of 1.0 for the case-mix variable indicates that it has the potential to result in a change in the outcome that is at least equal to the baseline variance in that score across providers.

Table 7. Assessing the Impact of Selected Case-mix Adjusters

		Rate Surgeon (q50)			Rate Anesthesiologist (q30)			Results Exceed Expectations (q51)		
Outcome Heterogeneity Factor:		0.0416			0.0136			0.0269		
<i>Case-mix Adjuster</i>	<i>Adjuster Heterogeneity Factor</i>	<i>Predictive Power*</i>	<i>EP*</i>	<i>Impact Factor *</i>	<i>Predictive Power*</i>	<i>EP*</i>	<i>Impact Factor *</i>	<i>Predictive Power*</i>	<i>EP*</i>	<i>Impact Factor *</i>
Age (q53)	0.3092	7.60	2.35	56.52	4.20	1.30	95.63	0.50	0.15	5.74
Education (q56)	0.0811	2.00	0.16	3.90	3.10	0.25	18.52	0.30	0.02	0.90
Number of prior Surgeries (q55)	0.0226	0.50	0.01	0.27	0.20	0.00	0.33	1.10	0.02	0.92

Note. Criteria for adjuster is EP > 0.1 and Impact > 1.0; EPs > 0.1 are in bold; Impact factors > 1.0 are also bolded. * Predictive Power = R-square*1,000; Explanatory Power (EP) = heterogeneity * predictive power; Impact Factor = EP/Outcome heterogeneity.

The variable that has the greatest overall impact on one or more ratings is age. It varies considerably across the surgeons, as indicated by its larger heterogeneity factor, and has the greatest amount of explanatory power with respect to the two global ratings, which is reflected in the EP measures reported in Table 7. Education, although it has less predictive power and a lower heterogeneity factor than age, meets both the EP and impact criterion for the two global ratings. The adjuster measuring the number of prior surgeries yielded borderline results. The EP for this adjuster was well below the threshold for two outcomes, and the EP of zero for the Anesthesiologist rating was due to the fact that this adjuster had both very low predictive power and a homogeneous distribution across surgeons. However, the impact factor for this adjuster on the two Expectations outcome was close to 1.0 (0.92).

Recommended variables for case-mix

Health status. In prior CAHPS studies that have sought to develop instruments to assess various types of providers and systems, the respondents’ self-rated health status has been demonstrated to be a statistically robust case-mix adjuster. As mentioned in a previous footnote, we were concerned that health status may not meet the condition of appropriateness for a case-

mix adjuster for this CAHPS survey. After analyzing our cognitive testing results for this study, we found that 11 of the 30 cognitive testing participants were answering the health status question by comparing their health to their pre-surgical health.⁶ In other words, in cognitive testing, at least 37 percent of the respondents indicated they had considered surgical outcomes in their response formation process. It is likely that a similar proportion of the field test respondents' answers similarly reflected surgical outcomes. This way of answering creates endogeneity – that is, respondents' health status reports are really outcomes of their experiences with their surgeons, rather than predispositions that might lead them to rate their surgeons more or less favorably, independent of their actual experiences. In light of this finding, we concluded that health status fails to meet the condition of 'appropriateness,' and it was excluded from the pool of potential adjusters.

Age, education, and number of prior surgeries. Age and education are standard CAHPS case-mix adjusters. We found sufficient evidence to recommend both as case-mix adjusters for the Surgical Patient Survey instrument. We found scant evidence to support the use of the number of prior surgeries measure as a case-mix adjuster. While it was a significant predictor of the measure of 'expectations exceeded outcomes', both its EP and impact were below the recommended thresholds. Given these results, and for the sake of parsimony, we recommend that only age and education be used as case-mix adjusters in the analysis and reporting of Surgical Patient Survey data.

COMPOSITE DEVELOPMENT

Statistical differences between Form A and Form C

As discussed previously, field test Forms A and C differed with respect to five questions (questions 9, 12, 36, 39 and 44). On Form A, these questions had a graduated yes/no response scale (4=definitely yes, 3=somewhat yes, 2=somewhat no, 1=definitely no); while on Form C, these questions had a behavioral frequency response scale (4=always, 3=usually, 2=sometimes, 1=never). We built this experiment into the data collection to determine whether the behavioral frequency response scale would have measurement properties that were superior enough to justify its use in place of the graduated yes/no scale. Most of the questions on the field test questionnaire had a graduated yes/no response scale because surgical care entails a limited number of encounters and so a behavioral frequency response scale is inappropriate for most topics. Good survey design principles recommend limiting the number of different response scales within one survey to reduce the cognitive burden of the response tasks. The extra burden introduced by including the behavioral frequency response scale in the final survey would be justified only if it had consistently superior measurement properties when compared to the graduated yes/no scale.

The skewness statistics in Table 8 indicated that for all five questions, the behavioral frequency response scale had better distributional properties (less negative skew) than the graduated yes/no scale. T-statistics associated with the size of the difference between mean values and chi-square statistics of the differences in frequency of response support the difference in skewness statistics. They suggest that the data distributions differ for comparable questions

⁶ In our cognitive testing of these items (Levine et al., 2008), we noted that, "In Round 1, at least 7 respondents were comparing themselves to their past (pre-surgery) selves. In Round 2, at least 4 respondents were doing the same thing. This is very rare in other CAHPS surveys." These findings are summarized in Appendix D.

with the distribution of the behavioral frequency response scales being significantly less negatively skewed than that of the graduated yes/no scales. We then examined whether this difference in data distributions translated into a practical difference in terms of the validity (correlation of responses with the global rating of surgeon) and reliability (practice-level reliability) of the questions. In four cases out of five, the graduated yes/no scale had a stronger correlation with the global rating of surgeon than the behavioral frequency scale. Also in four cases out of five, the graduated yes/no scale had higher practice-level reliabilities than the behavioral frequency scale. Consequently, the team decided to retain the graduated yes/no version of the questions. Because there was a significant difference in the mean values of these five questions, we did not pool the data for the remaining analyses. In subsequent sections, we discuss analysis of Form A data only because these data are more relevant to the content that will be included in the revised ACS survey.

Missing data imputation

To make use of all data for the factor analysis described below, we imputed missing data by obtaining maximum likelihood estimates of the covariance matrix under the Missing at Random (MAR) model (Rubin 1976, 1987) using SAS PROC MI. The MAR model is a reasonable way of obtaining a single respondent-level covariance matrix that is consistent with the correlations observed among the respondents to each pair of items (O'Malley, Zaslavsky, Hays et al. 2005).

Composite identification/confirmation analyses

We used structural equation modeling (SEM) (Jöreskog, 1978) as implemented by PROC CALIS to evaluate the fit of the data to the structure around which the questionnaire was designed. Although the data were not multivariate normal, we used the maximum likelihood estimation method taking into account that simulation studies suggest that the ML method is likely to result in conservative estimates of model fit, and generous estimates of parameter significance in non-normal data (Tomarken & Waller, 2005). Though it has become common practice to conduct SEM on a covariance matrix derived from polychoric correlations, we treated these data as continuous, consistent with the observed imputed values that comprised a nontrivial amount of the data. Recent simulation studies suggest that rounding imputed values biases estimations (Allison, 2005; Horton, Lipsitz, & Parzen, 2003).

We evaluated the goodness of fit of the model to the data using chi-square, the comparative fit index (CFI), the non-normed fit index (NNFI) and the average root mean square residual approximation (RMSEA). Common current practice with regard to these indicators of model fit is to:

- 1) report chi-square and p-values, but not to reject models where the p-value is < 0.05 in data sets with greater than 250 observations;
- 2) require RMSEA to be less than 0.10, and ideally less than 0.06; and
- 3) require the CFI and NNFI to be greater than 0.90 (Kenny, 2003; Marsh, Hau & Wen, 2004).

With respect to the last criterion, some argue that CFI and NNFI indices should be 0.95 or higher (Hu & Bentler, 1999).

To guard against introducing variance due to mode, we conducted the analysis on the mail mode data only. Because these data did not conform to the originally hypothesized structure (CFI and NNFI both fell far short of 0.90), we turned to exploratory analyses to identify a more plausible composite structure. Again, we conducted these analyses on the mail-mode data and used the data set comprised of the first imputation only. In subsequent analyses we examine the robustness of the identified composite structure in a data set that included the web mode responses (the sample size of the web mode precluded a separate analysis on web data only), as well as a data set based on another imputation.

Consistent with standard CAHPS methodology, we conducted exploratory factor analysis on the correlation matrix using the principle factor method with squared multiple correlations as initial communality estimates and oblique rotation (promax) with Kaiser normalization (Hargraves, Hays, & Cleary, 2003; O'Malley, et al., 2005). In determining the number of factors we considered the following statistical information:

- 1) the number of eigenvalues greater than one (Guttman, 1954; Kaiser, 1960),
- 2) the point at which additional factors explained a trivial amount of variance in the data as evidenced by the scree plot (Cattell, 1966), and
- 3) the interpretability of the rotated vector, based on simple structure (Thurstone, 1935).

Simple structure is determined by the pattern of factor loadings observed after rotation. An item conforms to simple structure if it has comparatively larger loadings on one factor and smaller loadings on all others. We considered large loadings to be those greater than 0.40 and small loadings to be no larger than half the size of the larger loading and less than 0.25. Four factor patterns, each based on a different number of vectors met these criteria.

Investigators reviewed the exploratory factor analysis and used the formative research that was conducted to choose from among the candidate composite models. The hypothetical model to be evaluated by the confirmatory factor analysis included 15 items and specified four composites concerning pre-, peri-, and post-surgical communication and quality of interactions with the surgeon's office staff. All t-tests on beta-weights describing the relationship of items to their hypothesized composites were highly significant ($p < 0.0001$), ranging from 0.38 to 0.91 (see Table 8).

Table 8. Confirmatory Factor Analysis Results for Final Model Specifying Composites and Items

	β^*
Pre-Surgical Care	
3 Surgeon or surgeon's staff gives you enough information before surgery?	0.67
4 Surgeon or surgeon's staff gives easy-to- understand instructions about surgery?	0.51
9 Surgeon listens carefully to you?	0.73
11 Surgeon encourages you to ask questions?	0.78
Peri-Operative Care	
15 Did surgeon visit you before surgery?	0.38
16 Did visit make you feel more calm and relaxed?	0.79
21 Did surgeon visit you and discuss the outcome of your surgery?	0.50
Post-Surgical Follow-up	
31 Surgeon or surgeon's staff explains what to expect during recovery?	0.71
32 Surgeon or surgeon's staff warns you about symptoms that require immediate medical	0.67

**Table 8. Confirmatory Factor Analysis Results for
Final Model Specifying Composites and Items**

		β^*
	attention?	
33	Surgeon or surgeon's staff gives you easy-to-understand instructions about what to do during recovery?	0.71
34	Surgeon makes sure you were physically comfortable after your surgery?	0.66
37	Surgeon spends enough time with you?	0.71
39	Surgeon treats you with courtesy and respect?	0.59
Office Staff		
43	Staff is as helpful as you thought they should be?	0.91
44	Staff treats you with courtesy and respect?	0.89

Note. Model Fit: X^2 , $df = 463, 74$; RMSEA = 0.07; CFI = 0.95; NNFI = 0.93

*All regression weights were significant at $p < 0.0001$

Table 9 (data adjacent to rows labeled “Estimates of Model Fit”) shows that this model fit the observed correlation matrix of mail mode responses reasonably well (Right-most column: $X^2 = 463, df = 74$; CFI = 0.95; NNFI = 0.93 RMSEA = 0.07). The fit of the same model tested in a data set containing both mail and web responses also was good ($X^2 = 513, df = 74$; CFI = 0.95; NNFI = 0.93 RMSEA = 0.06). This model tested in a data set of mail mode responses, comprised of another PROC MI imputation, exhibited fit statistics that were identical to two decimal places ($X^2 = 463, df = 74$; CFI = 0.95; NNFI = 0.93 RMSEA = 0.07).

Table 9. Measurement Properties of Composites

Statistics		Sample	
1	Estimates of Model Fit	Total	Mail Only
2	X^2, df	513, 74	463, 74
3	RMSEA	.07	.07
4	CFI	.95	.95
5	NNFI	.93	.93
6			
7	Surgeon-Level Reliability		
8	Pre-Surgical	.56	.50
9	Peri-Operative	.70	.67
10	Post-Surgical	.48	.43
11	Office Staff	.00	.00
12			
13	Internal Consistency Reliability	Web Only	Mail Only
14	Pre-Surgical	.77	.82
15	Peri-Operative	.70	.69
16	Post-Surgical	.87	.90
17	Office Staff	.79	.88
18	Correlation with Rating of Surgeon	Web Only	Mail Only
19	Pre-Surgical	.69	.59
20	Peri-Operative	.29	.28
21	Post-Surgical	.78	.60
22	Office Staff	.46	.45

Statistics		Sample	
23	Mean Composite Scores	Web Only	Mail Only
24	Pre-Surgical	3.83	3.82
25	Peri-Operative	2.27	2.25
26	Post-Surgical	3.79	3.76
27	Office Staff	3.82	3.85
28	Percent at Highest Score	Web Only	Mail Only
29	Pre-Surgical	76	70
30	Peri-Operative	54	56
31	Post-Surgical	62	64
32	Office Staff	82	87
33	Percent at Lowest Score	Web Only	Mail Only
34	Pre-Surgical	0	0
35	Peri-Operative	10	10
36	Post-Surgical	1	1
37	Office Staff	0	1

Measurement properties of confirmed composites

Table 9, rows 7 through 37, present the observed measurement properties of the four composites based on raw (un-imputed) data files for mailed and web questionnaires. With the exception of surgeon-level reliability statistics (rows 7 through 11), all statistics are stratified by mode. Surgeon-level reliability could not be estimated for web mode separately due to sample size constraints. Surgeon-level reliability (that is, inter-rater reliability) is based on the theory that consumers who use the same surgeon should agree in their assessments of that surgeon. Thus, reliability of aggregate surgeon scores increases with the ratio of between-to-within-surgeon variation in consumer assessments, and with the number of respondents (which causes the within-surgeon variance to shrink). We evaluated the relationship of between- to within-surgeon variability using analysis of variance with surgeon as the class variable and consumer assessments as the dependent variables. Standard CAHPS practice is that surgeon-level reliabilities should be at least 0.25 and ideally greater than 0.40, corresponding to moderate and large effect sizes, respectively (Cohen, 1988). According to this criterion, three of the four composites demonstrated surgeon-level reliabilities that were ideal. The meaning of a surgeon-level reliability coefficient of “.00” for the “Office Staff” composite simply indicates that this composite cannot be used to detect differences among surgeons in the quality of their office staff (that is, all surgeons are likely to have equally good office staff).

Internal consistency reliabilities were calculated using Cronbach’s coefficient alpha (Cronbach 1951). Observed internal consistency reliabilities for three out of four composites were high (ranging from 0.77 to 0.90). The “Peri-Operative Care” composite had a lower internal consistency (0.70 and 0.69 in web and mail, respectively) reflecting the heterogeneity of the content included in that composite. Still, the internal consistency reliability for this composite compares favorably to that found for other CAHPS instruments (Hays et al., 1999; Hargraves, Hays, & Cleary, 2003; Keller et al., 2005).

Item-total correlations for the composites, corrected for overlap, ranged from 0.43 to 0.88 (data not reported). Within the mail-mode data, correlations between items and their hypothesized composites always were stronger, significantly, than correlations between those

items and competing composites. In the web data, two items had weaker correlations with their own composites, though not significantly weaker, than they had with a competing composite. Both of the unanticipated correlations reflected the similarity of content between the Pre- and Post-Surgical Care composites. Indeed, in the web mode data, the correlation between the Pre- and Post-Surgical composites was 0.70.

We assessed the validity of the composite scores to indicate surgeon quality by determining their Pearson correlations with overall ratings of the surgeon. Following Cohen (1988) moderate and strong correlations were those above 0.30 and 0.50, respectively. According to these criteria, two of four composites had a large validity coefficient, one had a moderate to large validity coefficient, and one had a validity coefficient approaching a moderate effect size.

In summary, statistics presented in rows 7 through 22 of Table 9 show that the web-administered questionnaire is comparable to the mail-mode questionnaire in terms of reliability and validity estimates. Rows 23 through 27 show that the mean composite scores for the web mode data are identical to the first decimal point to those of the mail mode.

We evaluated the variability of assessments by noting the percentage of consumers for whom the highest (i.e., the ceiling effect) and lowest (i.e., the floor effect) possible scores were observed. High ceiling or floor effects suggest that a measure is not appropriate for respondents similar to those surveyed. The observed data show that for 82 percent and 87 percent of the web and mail data, respectively, this questionnaire provides no information about differences in the quality of office staff across surgeons. This result is consistent with the “.00” surgeon-level reliability observed for this composite. Data on the Peri-Operative and Post-Surgical composites are variable for approximately 40 percent of respondents and data for the Pre-Surgical composite is variable for 30 percent of respondents. The high ceiling effects on these composites might be due to a restricted range of performance in the field test sample. Participating surgeons were volunteers and were not selected randomly. Surgeons who performed poorly might have been less likely to volunteer to participate in the data collection. This would cause high performers to be over-represented in the sample and result in the observed ceiling effects. A random sample of surgeons might provide a more accurate picture of the distributional properties of the composite scores.

ITEM REVISIONS

As a result of the field test analyses, the final version of the instrument differs from the field test version in the following ways:

- (1) Items that were asked as behavioral frequency questions were eliminated. The graduated yes/no scale version of these items are being used.
- (2) Yes/no items are asked in a yes → no order rather than a no → yes order
- (3) Several items were eliminated.

The following table lists all of items in the field test, indicating items that were eliminated and their rationale for their elimination. If an item is part of a composite, the composite is indicated

Table 10. Field Test Questionnaire Item Resolution

Item	#	Outcome
Did this surgeon perform surgery on you?	1	Sample Confirmation
Surgery scheduled as soon as you needed?	2	Deleted: Not an issue for 97.7% of respondents.
Surgeon or surgeon's staff give you enough information before it was done?	3	Pre-surgical care item
Surgeon or surgeon's staff give easy- to-understand instructions about getting ready for surgery?	4	Pre-surgical care item
How many office visits with this surgeon?	5	Casemix adjuster
Surgeon tell you there was more than one way to treat your condition?	6	Retain as potential decision-making item
Surgeon ask which way to treat your condition you thought was best?	7	Retain as potential decision-making item
Surgeon talk with you about the risks and benefits of your treatment choices?	8	Retain as potential decision-making item
Surgeon listen carefully to you?-Pre	9	Pre-surgical care item
Surgeon spend enough time with you?-Pre	10	Retain as potential QI item
Surgeon encourage you to ask questions?-Pre	11	Pre-surgical care item
Surgeon treat you w/ courtesy and respect?-Pre	12	Retain as potential QI item
Surgeon/surgeon's staff use diagrams....to help explain things?	13	Retain as potential QI item
Did diagrams....help you better understand?	14	Retain as potential QI item
After you arrived at surgical facility, did surgeon visit you before surgery?	15	Peri-operative care item
Did visit make you feel more calm/relaxed?	16	Peri-operative care item
After you were admitted, were there long delays before surgery began?	17	Deleted: Inability to fit into a composite supports belief that this is not within surgeon's control or domain of responsibility.
Were you kept informed about wait for your surgery to begin?	18	Deleted: Inability to fit into a composite supports belief that this is not within surgeon's control or domain of responsibility.
Any family or friends in the building during surgery?	19	Deleted; consider use as possible supplemental item.
Surgeon/member of the operating team discuss surgery with family/friends after it was over?	20	Deleted; consider use as possible supplemental item.
Before you left surgical facility, did surgeon visit you and discuss the outcome of your surgery?	21	Peri-operative care item
How soon after your surgery did this surgeon discuss the outcome with you?	22	Deleted; consider use as possible supplemental item.
Given something so you would not feel pain during your surgery?	23	Screener
Who gave you something?	24	Screener
Did this anesthesiologist encourage you to ask questions?	25	Retain as potential anesthesiologist item
Ask this anesthesiologist any questions?	26	Retain as potential anesthesiologist item

Item	#	Outcome
Did this anesthesiologist answer your questions clearly?	27	Retain as potential anesthesiologist item
After you arrived at surgical facility, did anesthesiologist visit you?	28	Retain as potential anesthesiologist item
Anesthesiologist make you feel more calm?	29	Retain as potential anesthesiologist item
Using any number from 0 to 10, where 0 is the worst anesthesiologist possible ...	30	Global
Surgeon/surgeon's staff explain what to expect during your recovery period?	31	Post-surgical follow-up item
Surgeon/surgeon's staff warn you about symptoms that would require immediate medical attention during recovery?	32	Post-surgical follow-up item
Surgeon/surgeon's staff give you easy to understand instructions about what to do during your recovery?	33	Post-surgical follow-up item
Surgeon make sure you were physically comfortable after you left the facility where you had your surgery?	34	Post-surgical follow-up item
After your surgery, did you talk with this surgeon by phone or visit this surgeon at his or her office?	35	Screener
Surgeon listen carefully to you? -Post	36	Retain as potential QI item
Surgeon spend enough time with you? -Post	37	Post-surgical follow-up item
Surgeon encourage you to ask questions? -Post	38	Retain as potential QI item
Surgeon treat you with courtesy and respect? -Post	39	Post-surgical follow-up item
Phone surgeon's office after surgery?	40	Deleted. Less than one-third (32.6%) of respondents answered affirmatively.
When you phoned, did you get an answer to your medical questions as soon as you needed?-Post	41	Deleted. Less than one-third (32.6%) of respondents answer this item.
How many times did you visit this surgeon's office?-Post	42	Case mix
Staff as helpful as you thought they should be?	43	Office staff item
Staff treat you with courtesy and respect?	44	Office staff item
Any medical mistakes by this surgeon in your treatment?	45	Deleted. Low incidence (4.6%).
Mistakes cause problems?	46	Deleted. Low incidence (only 4.6% of respondents are eligible to answer item).
Surgeon explain how the mistake happened?	47	Deleted. Low incidence (only 4.6% of respondents are eligible to answer item).
Surgeon really cared about you as a person?	48	Deleted; consider use as possible supplemental item.
Surgeon check to be sure you understood everything?	49	Deleted; consider use as possible supplemental item.
Using any number from 0 to 10, where 0 is the worst surgeon possible...?	50	Global
Were the results as good or better than you expected?	51	Deleted. Considered as possible outcome measure, but negatively related to number of other surgeries.

All of the demographic items were retained to maintain comparability with other CAHPS instruments. A copy of the final instrument is attached as Appendix F.

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APPENDIX A. SUMMARY OF SURGICAL PRACTICE SAMPLE IMPLEMENTATION SURVEY

A follow-up survey was sent to the main contacts at each of the 33 medical groups that participated in the ACS surgical patient survey in 2008. The survey was e-mailed in early January 2009. Over the course of 4 weeks and one reminder e-mail, we received 10 completed surveys, representing 30% of the practices.

The follow-up survey asked participating practices about the process of following the instructions for assembling lists of eligible patients for transmission to Westat. With two exceptions, respondents were able to assemble the patient lists in a relatively short period of time and with little difficulty. The two exceptions noted that it took a “few weeks” and “two months” to bring together their patient lists.

Most of the respondents felt that they understood the goals of the study, 7 responding that they “definitely” understood the goals, 3 responding “somewhat”. Nine out of 10 also felt that they “definitely” knew how to obtain more information about HIPAA and how the data would be used.

All the respondents indicated that the written instructions for determining eligible patients and including data elements were “definitely easy to understand.” And, all the respondents knew who to contact for more information and direction. Nine respondents followed up with their Westat contact for clarification, 8 getting their answer as soon as they wanted and 1 responding “no” that their answer wasn’t provided as quickly as they needed. It should be noted that considerable e-mail exchange was required with all contacts.

Half of the practices were able to use just one source of information -- either an electronic medical record (EMR) or a billing database -- to pull together their patient lists. The practice that required the least amount of time to pull together their list, just 30 minutes, indicated that their EMR made the task very easy. Among the rest that didn’t indicate a major problem, the time varied from 2 to 5 hours of labor. Three respondents didn’t provide a time estimate.

Obtaining physician approval and bringing together several data sources, including paper files to gather some requested data elements, was listed as the time limiting factor for two of the respondents for whom the data collection took the longest (“a few weeks” and “two months”).

The data elements that proved the most difficult or impossible to obtain based on the respondents answers were patient address, patient race/ethnicity and whether the patient’s surgical procedure was an emergency or scheduled (non-emergency) procedure. Only one practice included e-mail addresses. This practice could only provide e-mail addresses for 14 patients.

While we have no way of knowing about the non-respondents to our follow-up survey, we feel it is clear that the rate-limiting step in terms of ease and time required to prepare a sampling frame is the presence of electronic records.

APPENDIX B. Survey Cover and Reminder Letters

August 5, 2008

* «Barcode» *

«First_Name» «Last_Name»

«Address_1»

«Address_2»

«CitySTZip»

The American College of Surgeons is working with your surgeon and others to test a new patient survey. We want to try to improve the care patients receive using information from people like you who have recently had surgery.

You recently had surgery with: Dr. «Name_of_Surgeon» on «Date_of_Surgery»

Please fill out the enclosed survey and mail it back to us in the prepaid envelope. Your answers to this survey will help us make the survey better and improve the quality of surgical care.

Your participation in this survey is voluntary. If you send the survey back or complete it online, you are agreeing to participate. If you decide not to fill out and return the survey, it will not affect your health care or your health insurance benefits in any way.

If you want to complete your survey **now** on the Internet, using your Internet browser go to:
<https://www.surgicalsurvey.org>. Your username and password for the survey are shown below.

Username: «Username»

Password: «Password»

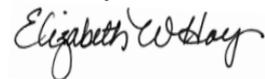
Your answers will remain completely private and confidential. We will combine your answers with those of others who answer the survey. Your answers will never be matched with your name and your doctor will not know how you answer the survey.

This survey has been reviewed and approved by an authorized Institutional Review Board (IRB). This approval allows your surgeon to share your contact information with us for the purposes of this study. Your contact information is protected under the Federal HIPAA (Health Insurance Portability and Accountability Act) Privacy Rule. We will not release your contact information to anyone else.

If you have any other questions about the survey, please contact the survey staff at 1-888-502-9775 or scahps@westat.com. If you have any questions about your rights as a study participant, please contact Sharon Zack, IRB Administrator at 301-610-8828 or sharonzack@westat.com.

Thank you in advance for your help.

Sincerely,



Elizabeth W. Hoy, MHA
Assistant Director for Regulatory Affairs and Quality Improvement Programs
202-337-2701
ahp@facs.org

August 5, 2008

El Colegio americano de cirujanos está colaborando con su cirujano y otras personas para poner a prueba una nueva encuesta dirigida a los pacientes. Queremos mejorar el cuidado que reciben los pacientes usando información de personas como usted que hayan sido operadas recientemente.

Nuestros registros indican que Dr. Richard T Irene lo/la operó el September 20, 2007.

Por favor complete el cuestionario para esta encuesta y envíenoslo en el sobre con porte pre-pagado. Sus respuestas a esta encuesta nos ayudarán a mejorar el cuestionario y a mejorar la calidad de la atención quirúrgica.

Su participación en esta encuesta es voluntaria. Si nos envía el cuestionario luego de completarlo por la Internet, esto significaría que ha decidido participar en la encuesta. Si decide no completar y devolver el cuestionario, esto no afectará de ninguna manera la atención médica ni las prestaciones que reciba por parte de su seguro médico.

Si desea llenar el cuestionario de la encuesta **ahora mismo** por la Internet, use su navegador de web y vaya al sitio <https://www.surgicalsurvey.org>. Su nombre de usuario y su contraseña están indicados a continuación.

Nombre de usuario: 14693

Contraseña: n5mr

Sus respuestas se mantendrán completamente privadas y confidenciales. Combinaremos sus respuestas con las de otras personas que respondan a la encuesta. Sus respuestas nunca se vincularán con su nombre y su doctor no se enterará de sus respuestas a la encuesta.

Este cuestionario ha sido revisado y aprobado por una Junta de Revisión Institucional (IRB, por su sigla in inglés). Esta aprobación permite que su cirujano comparta su dirección y otra información que nos sirva para ponernos en contacto con usted para propósitos de este estudio solamente. Esta información está protegida bajo la Ley Federal de Privacidad HIPAA (Ley de Transportabilidad y Contabilidad de Seguros Médicos). No se le dará a conocer esta información a ninguna otra persona.

Si tiene alguna pregunta acerca de la encuesta puede llamar al 1-888-502-9775 o escribir un correo electrónico a scahps@westat.com. Si tiene alguna pregunta acerca de sus derechos como participante en este estudio, favor de comunicarse con Sharon Zack, Administradora del IRB al 301-610-8828 o sharonzack@westat.com.

Gracias de antemano por su ayuda.

Atentamente,



Elizabeth W. Hoy, MHA

Directora Asistente para Asuntos Regulatorios y Programas de Mejoramiento de la Calidad (*Assistant Director for Regulatory Affairs and Quality Improvement Programs*)

202-337-2701

ahp@facs.org

REMINDER LETTER
Surgical Survey Project letterhead

Recently, we sent you a Surgical Care Patient survey but have not yet received your completed questionnaire. We would like you to participate in the survey so we have enclosed another copy.

You recently had surgery with: *{DOCTOR NAME on DATE}*

Please fill out the enclosed survey and mail it back to us in the prepaid envelope. Your answers to this survey will help us make the survey better and improve the quality of surgical care.

Your participation in this survey is voluntary. If you send the survey back or complete it online, you are agreeing to participate. If you decide not to fill out and return the survey, it will not affect your health care or your health insurance benefits in any way.

If you want to complete your survey **now** on the Internet, using your Internet browser go to:
<https://www.surgicalsurgery.org>.

Your username and password for the survey are shown below.

Username:

Password:

Your answers will remain completely private and confidential. We will combine your answers with those of others who answer the survey. Your answers will never be matched with your name and your doctor will not know how you answer the survey.

This survey has been reviewed and approved by an authorized Institutional Review Board (IRB). This approval allows your surgeon to share your contact information with us for the purposes of this study. Your contact information is protected under the Federal HIPAA (Health Insurance Portability and Accountability Act) Privacy Rule. We will not release your contact information to anyone else.

If you have any other questions about the survey, please contact the survey staff at 1-888-502-9775 or scahps@westat.com. If you have any questions about your rights as a study participant, please contact Sharon Zack, IRB Administrator at 301-610-8828 or sharonzack@westat.com.

Thank you in advance for your help.

Sincerely,

Elizabeth W. Hoy, MHA
Assistant Director for Regulatory Affairs and Quality Improvement Programs
202-337-2701
ahp@facs.org

REMINDER POSTCARD

We recently mailed you a Surgical Patient Survey. By answering the survey, you'll be helping your surgeon and the American College of Surgeons to build a survey that best measures their ability to provide patient-centered care. If you have already completed and returned your survey, thank you. If not, please take some time and complete it as soon as possible. The survey will take only 15 to 20 minutes to complete.

If you have any questions, please call our helpline at 1-800-502-9775

Recientemente le enviamos una copia de la Encuesta de Atención de Cirugía. Al responder a esta encuesta, usted ayudará a su cirujano y al Colegio Americano de Cirujanos a desarrollar una encuesta que contribuirá a mejorar la manera en que se mide la atención médica centrada en el paciente. Le agradecemos su colaboración si ya la completó y devolvió el cuestionario. Si aún no ha llenado el cuestionario de la encuesta, por favor complétela lo más pronto posible. Le tomará solamente unos 15 a 20 minutos para hacerlo.

Si tiene alguna pregunta, por favor llame a nuestra línea de ayuda marcando el 1-800-502-9775.

APPENDIX C. Versions A and C of Main Field Test Survey

YOUR SURGEON

1. Our records show that the surgeon named in the enclosed letter performed surgery on you on the date indicated in the letter. Is this right?

¹ Yes → **If Yes, Go to Question 2**

² No → **If No, Please check this box and return the survey in the enclosed envelope.**

BEFORE YOUR SURGERY

2. Was your surgery scheduled as soon as you needed?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

3. Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

4. Did this surgeon or this surgeon's staff give you easy to understand instructions about getting ready for your surgery?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

5. Before your surgery, how many office visits did you have with this surgeon?

¹ None → **If None, Go to Question 15 on Page 2**

² 1 visit

³ 2 visits

⁴ 3 visits

⁵ 4 to 6 visits

⁶ 7 or more visits

6. During your office visits before your surgery, did this surgeon tell you there was more than one way to treat your condition?

¹ Yes

² No → **If No, Go to Question 9 on Page 2**

7. During your office visits before your surgery, did this surgeon ask which way to treat your condition you thought was best for you?

¹ Yes

² No

8. During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?

¹ Yes

² No

9. **During your office visits before your surgery, did this surgeon listen carefully to you?**

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

10. **During your office visits before your surgery, did this surgeon spend enough time with you?**

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

11. **During your office visits before your surgery, did this surgeon encourage you to ask questions?**

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

12. **During your office visits before your surgery, did this surgeon treat you with courtesy and respect?**

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

13. **During your office visits before your surgery, did this surgeon or this surgeon's staff use diagrams, models, videos, or other materials to help explain things to you?**

- 1 Yes
- 2 No → **If No, Go to Question 15**

14. **Did these diagrams, models, videos or other material help you better understand your condition and its treatment?**

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

YOUR SURGERY

15. **After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?**

- 1 Yes
- 2 No → **If No, Go to Question 17 on Page 3**

16. **Did this visit make you feel more calm and relaxed?**

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

17. After you were admitted to the hospital or surgical facility, were there any long delays before your surgery began?
- ¹ Yes
² No → If No, Go to Question 19
18. Were you kept informed about how long you would have to wait for your surgery to begin?
- ¹ Definitely yes
² Somewhat yes
³ Somewhat no
⁴ Definitely no
19. Were any family or friends in the building during your surgery?
- ¹ Yes
² No → If No, Go to Question 21
20. Did this surgeon or a member of the operating team discuss your surgery with your family or friends immediately after the surgery was over?
- ¹ Yes
² No
³ Don't know
21. Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery?
- ¹ Yes
² No
³ Don't know

22. How soon after your surgery did this surgeon discuss the outcome of the surgery with you?
- ¹ Less than 1 day after the surgery
² 1 to 3 days after the surgery
³ 4 to 6 days after the surgery
⁴ 1 to 4 weeks after the surgery
⁵ More than 1 month after the surgery
⁶ Never

ANESTHESIOLOGY

23. Were you given something so you would not feel pain during your surgery?
- ¹ Yes
² No → If No, Go to Question 31 on page 4
24. Who gave you something so you would not feel pain during your surgery?
- ¹ An anesthesiologist did this
² This surgeon did this → If this surgeon did this, Go to Question 31 on Page 4
³ Don't know → If Don't know, Go to Question 31 on Page 4
25. Did this anesthesiologist encourage you to ask questions?
- ¹ Definitely yes
² Somewhat yes
³ Somewhat no
⁴ Definitely no

26. Did you ask this anesthesiologist any questions?

- Yes
- No → If No, Go to Question 28

27. Did this anesthesiologist answer your questions clearly?

- Yes
- No

28. After you arrived at the hospital or surgical facility, did this anesthesiologist visit you before your surgery?

- Yes
- No → If No, Go to Question 30

29. Did talking with this anesthesiologist during this visit make you feel more calm and relaxed?

- Definitely yes
- Somewhat yes
- Somewhat no
- Definitely no

30. Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?

- 0 Worst anesthesiologist possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best anesthesiologist possible

AFTER YOUR SURGERY

31. Did this surgeon or this surgeon's staff explain what to expect during your recovery period?

- Definitely yes
- Somewhat yes
- Somewhat no
- Definitely no

32. Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery period?

- Definitely yes
- Somewhat yes
- Somewhat no
- Definitely no

33. Did this surgeon or this surgeon's staff give you easy to understand instructions about what to do during your recovery period?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

34. Did this surgeon make sure you were physically comfortable or had enough pain relief after you left the facility where you had your surgery?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

35. After your surgery, did you talk with this surgeon by phone or visit the surgeon at his or her office?

- 1 Yes
- 2 No → If No, Go to Question 40

36. After your surgery, did this surgeon listen carefully to you?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

37. After your surgery, did this surgeon spend enough time with you?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

38. After your surgery, did this surgeon encourage you to ask questions?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

39. After your surgery, did this surgeon treat you with courtesy and respect?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

40. After your surgery, did you phone this surgeon's office with a medical question?

- 1 Yes
- 2 No → If No, Go to Question 42

41. After your surgery, when you phoned this surgeon's office, did you get an answer to your medical questions as soon as you needed?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

42. After your surgery, how many times did you visit this surgeon's office?

- 1 None
- 2 1 visit
- 3 2 visits
- 4 3 visits
- 5 4 to 6 visits
- 6 7 or more visits

STAFF AT THIS SURGEON'S OFFICE

43. Staff at this surgeon's office includes receptionists, clerks, nurses, and other people working in the office. Were the staff at this surgeon's office as helpful as you thought they should be?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

44. Did the staff at this surgeon's office treat you with courtesy and respect?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

YOUR OVERALL CARE FROM THIS SURGEON

45. Were you aware of any medical mistakes by this surgeon in your treatment?

- 1 Yes
- 2 No → If No, Go to Question 48

46. Did these mistakes cause any significant problems for your treatment or condition?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

47. Did this surgeon explain how the mistake happened?

- 1 Yes
- 2 No

48. Do you feel this surgeon really cared about you as a person?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

49. Did this surgeon check to be sure you understood everything?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

50. Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate this surgeon?

- 0 Worst surgeon possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best surgeon possible

51. Were the results of this surgery as good or better than you expected?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

ABOUT YOU

52. In general, how would you rate your overall health?

- 1 Excellent
- 2 Very good
- 3 Good
- 4 Fair
- 5 Poor

53. What is your age?

- 1 18 to 24 years
- 2 25 to 34 years
- 3 35 to 44 years
- 4 45 to 54 years
- 5 55 to 64 years
- 6 65 to 74 years
- 7 75 years or older

54. Are you male or female?

- 1 Male
- 2 Female

55. Not counting this surgery, about how many other surgeries have you had?

- 1 None
- 2 1 surgery
- 3 2 surgeries

- 4 3 to 5 surgeries
- 5 6 to 9 surgeries
- 6 10 or more

56. What is the highest grade or level of school that you have completed?

- 1 8th grade or less
- 2 Some high school, but did not graduate
- 3 High school graduate or GED
- 4 Some college or 2-year degree
- 5 4-year college graduate
- 6 More than 4-year college degree

57. Are you of Hispanic or Latino origin or descent?

- 1 Yes, Hispanic or Latino
- 2 No, not Hispanic or Latino

58. What is your race? Please mark one or more.

- 1 White
- 2 Black or African American
- 3 Asian
- 4 Native Hawaiian or Other Pacific Islander
- 5 American Indian or Alaska Native
- 6 Other

THANK YOU

Please return the completed survey in the postage-paid envelope.

Version C

NOTE: Only items that differ from Version A items are presented.

9. During your office visits before your surgery, how often did this surgeon listen carefully to you?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

12. During your office visits before your surgery, how often did this surgeon treat you with courtesy and respect?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

36. After your surgery, how often did this surgeon listen carefully to you?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

39. After your surgery, how often did this surgeon treat you with courtesy and respect?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

44. How often did the staff at this surgeon's office treat you with courtesy and respect?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Appendix D. Field Test Frequencies

SurveyVersion

Survey Version	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A	1430	50.35	1430	50.35
B	30	1.06	1460	51.41
C	1380	48.59	2840	100.00

RETURN SOURCE

RETURN_SOURCE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
PAPER	2292	80.70	2292	80.70
VISIONTREE	70	2.46	2362	83.17
WEB	478	16.83	2840	100.00

Q1 RECODED: Our records show that the surgeon performed surgery on you on the date. Is this right?

	Q1R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes		2722	98.27	2722	98.27
No (End Survey)		48	1.73	2770	100.00

Frequency Missing = 70

Q2 RECODED: Was your surgery scheduled as soon as you needed?

	Q2R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes		2339	84.32	2339	84.32
Somewhat Yes		370	13.34	2709	97.66
Somewhat No		44	1.59	2753	99.24
Definitely No		21	0.76	2774	100.00

Frequency Missing = 66

Q3 RECODED: Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?

	Q3R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes		2409	86.75	2409	86.75
Somewhat Yes		303	10.91	2712	97.66
Somewhat No		38	1.37	2750	99.03
Definitely No		27	0.97	2777	100.00

Frequency Missing = 63

Q4 RECODED: Did this surgeon or this surgeon's staff give you easy to understand instructions about getting ready for your surgery?

Q4R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	2556	92.24	2556	92.24
Somewhat Yes	181	6.53	2737	98.77
Somewhat No	18	0.65	2755	99.42
Definitely No	16	0.58	2771	100.00

Frequency Missing = 69

Q5 RECODED: Before your surgery, how many office visits did you have with this surgeon?

Q5R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	278	10.22	278	10.22
1 visit	894	32.87	1172	43.09
2 visits	920	33.82	2092	76.91
3 visits	358	13.16	2450	90.07
4 to 6 visits	167	6.14	2617	96.21
7 or more visits	103	3.79	2720	100.00

Frequency Missing = 120

Q6 RECODED: During your office visits before your surgery, did this surgeon tell you there was more than one way to treat your condition?

Q6R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	1336	55.46	1336	55.46
No	1073	44.54	2409	100.00

Frequency Missing = 431

Q7 RECODED: During your office visits before your surgery, did this surgeon ask which way to treat your condition you thought was best for you?

Q7R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	1241	92.61	1241	92.61
No	99	7.39	1340	100.00

Frequency Missing = 1500

Q8 RECODED: During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?

Q8R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	1340	97.74	1340	97.74
No	31	2.26	1371	100.00

Frequency Missing = 1469

Q9 RECODED: During your office visits before your surgery, did this surgeon listen carefully to you?

Q9R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	1105	87.21	1105	87.21
Somewhat Yes	143	11.29	1248	98.50
Somewhat No	12	0.95	1260	99.45
Definitely No	7	0.55	1267	100.00

Frequency Missing = 1573

Q9 RECODED: During your office visits before your surgery, how often did this surgeon listen carefully to you?

Q9	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Never	10	0.83	10	0.83
Sometimes	42	3.49	52	4.33
Usually	195	16.22	247	20.55
Always	955	79.45	1202	100.00

Frequency Missing = 1638

Q10 RECODED: During your office visits before your surgery, did this surgeon spend enough time with you?

Q10R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	2005	81.44	2005	81.44
Somewhat Yes	395	16.04	2400	97.48
Somewhat No	44	1.79	2444	99.27
Definitely No	18	0.73	2462	100.00

Frequency Missing = 378

Q11 RECODED: During your office visits before your surgery, did this surgeon encourage you to ask questions?

Q11R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	1867	75.86	1867	75.86
Somewhat Yes	483	19.63	2350	95.49
Somewhat No	72	2.93	2422	98.42
Definitely No	39	1.58	2461	100.00

Frequency Missing = 379

Q12 RECODED: During your office visits before your surgery,
did this surgeon treat you with courtesy and respect?

Q12R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	1218	95.98	1218	95.98
Somewhat Yes	44	3.47	1262	99.45
Somewhat No	4	0.32	1266	99.76
Definitely No	3	0.24	1269	100.00

Frequency Missing = 1571

Q12 RECODED: During your office visits before your surgery, how
often did this surgeon treat you with courtesy and respect?

q12	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Never	6	0.50	6	0.50
Sometimes	17	1.41	23	1.91
Usually	70	5.82	93	7.73
Always	1110	92.27	1203	100.00

Frequency Missing = 1637

Q13 RECODED: During your office visits before your surgery, did this surgeon or this
surgeon's staff use diagrams, models, videos, or other materials to help explain things to
you?

Q13R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	1687	69.45	1687	69.45
No	742	30.55	2429	100.00

Frequency Missing = 411

Q14 RECODED: Did these diagrams, models, videos or other material
help you better understand your condition and its treatment?

Q14R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	1434	85.46	1434	85.46
Somewhat Yes	233	13.89	1667	99.34
Somewhat No	8	0.48	1675	99.82
Definitely No	3	0.18	1678	100.00

Frequency Missing = 1162

Q15 RECODED: After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?

Q15R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	2094	77.27	2094	77.27
No	616	22.73	2710	100.00

Frequency Missing = 130

Q16 RECODED: Did this visit make you feel more calm and relaxed?

Q16R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	1581	75.94	1581	75.94
Somewhat Yes	470	22.57	2051	98.51
Somewhat No	26	1.25	2077	99.76
Definitely No	5	0.24	2082	100.00

Frequency Missing = 758

Q17 RECODED: After you were admitted to the hospital or surgical facility, were there any long delays before your surgery began?

Q17R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	384	14.13	384	14.13
No	2334	85.87	2718	100.00

Frequency Missing = 122

Q18 RECODED: Were you kept informed about how long you would have to wait for your surgery to begin?

Q18R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	173	43.47	173	43.47
Somewhat Yes	144	36.18	317	79.65
Somewhat No	35	8.79	352	88.44
Definitely No	46	11.56	398	100.00

Frequency Missing = 2442

Q19 RECODED: Were any family or friends in the building during your surgery?

Q19R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	2530	92.00	2530	92.00
No	220	8.00	2750	100.00

Frequency Missing = 90

Q20 RECODED: Did this surgeon or a member of the operating team discuss your surgery with your family or friends immediately after the surgery was over?

Q20R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	2158	85.84	2158	85.84
No	103	4.10	2261	89.94
Don't know	253	10.06	2514	100.00

Frequency Missing = 326

Q21 RECODED: Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery?

Q21R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	2109	76.72	2109	76.72
No	425	15.46	2534	92.18
Don't know	215	7.82	2749	100.00

Frequency Missing = 91

Q22 RECODED: How soon after your surgery did this surgeon discuss the outcome of the surgery with you?

Q22R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Less than 1 day after the surgery	1434	53.49	1434	53.49
1 to 3 days after the surgery	578	21.56	2012	75.05
4 to 6 days after the surgery	189	7.05	2201	82.10
1 to 4 weeks after the surgery	340	12.68	2541	94.78
More than 1 month after the surgery	56	2.09	2597	96.87
Never	84	3.13	2681	100.00

Frequency Missing = 159

Q23 RECODED: Were you given something so you would not feel pain during your surgery?

Q23R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	2710	98.15	2710	98.15
No	51	1.85	2761	100.00

Frequency Missing = 79

Q24 RECODED: Who gave you something so you would not feel pain during your surgery?

Q24R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
An anesthesiologist did this	2336	87.39	2336	87.39
this surgeon did this	73	2.73	2409	90.12
Don't know	264	9.88	2673	100.00

Frequency Missing = 167

Q25 RECODED: Did this anesthesiologist encourage you to ask questions?

Q25R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	1428	62.09	1428	62.09
Somewhat Yes	591	25.70	2019	87.78
Somewhat No	153	6.65	2172	94.43
Definitely No	128	5.57	2300	100.00

Frequency Missing = 540

Q26 RECODED: Did you ask this anesthesiologist any questions?

Q26R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	1144	50.00	1144	50.00
No	1144	50.00	2288	100.00

Frequency Missing = 552

Q27 RECODED: Did this anesthesiologist answer your questions clearly?

Q27R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	1125	98.08	1125	98.08
No	22	1.92	1147	100.00

Frequency Missing = 1693

Q28 RECODED: After you arrived at the hospital or surgical facility,
did this anesthesiologist visit you before your surgery?

Q28R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	2093	90.68	2093	90.68
No	215	9.32	2308	100.00

Frequency Missing = 532

Q29 RECODED: Did talking with this anesthesiologist during
this visit make you feel more calm and relaxed?

Q29R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	1377	65.95	1377	65.95
Somewhat Yes	645	30.89	2022	96.84
Somewhat No	48	2.30	2070	99.14
Definitely No	18	0.86	2088	100.00

Frequency Missing = 752

Q30 RECODED: Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?

Q30R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Worst anesthesiologist possible	4	0.17	4	0.17
1	5	0.22	9	0.39
2	7	0.30	16	0.69
3	10	0.43	26	1.13
4	10	0.43	36	1.56
5	69	2.99	105	4.55
6	55	2.39	160	6.94
7	99	4.29	259	11.23
8	320	13.88	579	25.11
9	472	20.47	1051	45.58
10 Best anesthesiologist possible	1255	54.42	2306	100.00

Frequency Missing = 534

Q31 RECODED: Did this surgeon or this surgeon's staff explain what to expect during your recovery period?

Q31R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	2152	78.40	2152	78.40
Somewhat Yes	458	16.68	2610	95.08
Somewhat No	81	2.95	2691	98.03
Definitely No	54	1.97	2745	100.00

Frequency Missing = 95

Q32 RECODED: Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery period?

Q32R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	2142	78.46	2142	78.46
Somewhat Yes	417	15.27	2559	93.74
Somewhat No	89	3.26	2648	97.00
Definitely No	82	3.00	2730	100.00

Frequency Missing = 110

Q33 RECODED: Did this surgeon or this surgeon's staff give you easy to understand instructions about what to do during your recovery period?

Q33R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	2315	84.67	2315	84.67
Somewhat Yes	333	12.18	2648	96.85
Somewhat No	47	1.72	2695	98.57
Definitely No	39	1.43	2734	100.00

Frequency Missing = 106

Q34 RECODED: Did this surgeon make sure you were physically comfortable or had enough pain relief after you left the facility where you had your surgery?

Q34R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	2371	86.82	2371	86.82
Somewhat Yes	259	9.48	2630	96.30
Somewhat No	50	1.83	2680	98.13
Definitely No	51	1.87	2731	100.00

Frequency Missing = 109

Q35 RECODED: After your surgery, did you talk with this surgeon by phone or visit the surgeon at his or her office?

Q35R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	2337	86.24	2337	86.24
No	373	13.76	2710	100.00

Frequency Missing = 130

Q36 RECODED: After your surgery, did this surgeon listen carefully to you?

Q36R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	1048	87.85	1048	87.85
Somewhat Yes	110	9.22	1158	97.07
Somewhat No	25	2.10	1183	99.16
Definitely No	10	0.84	1193	100.00

Frequency Missing = 1647

Q36 RECODED: After your surgery, how often did this surgeon listen carefully to you?

q36	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Never	11	0.97	11	0.97
Sometimes	54	4.75	65	5.71
Usually	133	11.69	198	17.40
Always	940	82.60	1138	100.00

Frequency Missing = 1702

Q37 RECODED: After your surgery, did this surgeon spend enough time with you?

Q37R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	1815	77.76	1815	77.76
Somewhat Yes	392	16.80	2207	94.56
Somewhat No	80	3.43	2287	97.99
Definitely No	47	2.01	2334	100.00

Frequency Missing = 506

Q38 RECODED: After your surgery, did this surgeon encourage you to ask questions?

Q38R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	1785	76.81	1785	76.81
Somewhat Yes	401	17.25	2186	94.06
Somewhat No	97	4.17	2283	98.24
Definitely No	41	1.76	2324	100.00

Frequency Missing = 516

Q39 RECODED: After your surgery, did this surgeon treat you with courtesy and respect?

Q39R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	1129	94.71	1129	94.71
Somewhat Yes	50	4.19	1179	98.91
Somewhat No	5	0.42	1184	99.33
Definitely No	8	0.67	1192	100.00

Frequency Missing = 1648

Q39 RECODED: After your surgery, how often did this surgeon treat you with courtesy and respect?

q39	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Never	5	0.43	5	0.43
Sometimes	23	1.99	28	2.43
Usually	67	5.81	95	8.24
Always	1058	91.76	1153	100.00

Frequency Missing = 1687

Q40 RECODED: After your surgery, did you phone this surgeon's office with a medical question?

Q40R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	876	32.60	876	32.60
No	1811	67.40	2687	100.00

Frequency Missing = 153

Q41 RECODED: After your surgery, when you phoned this surgeon's office, did you get an answer to your medical questions as soon as you needed?

Q41R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	692	78.19	692	78.19
Somewhat Yes	130	14.69	822	92.88
Somewhat No	32	3.62	854	96.50
Definitely No	31	3.50	885	100.00

Frequency Missing = 1955

Q42 RECODED: After your surgery, how many times did you visit this surgeon's office?

Q42R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	187	6.96	187	6.96
1 visit	798	29.69	985	36.64
2 visits	899	33.44	1884	70.09
3 visits	441	16.41	2325	86.50
4 to 6 visits	284	10.57	2609	97.06
7 or more visits	79	2.94	2688	100.00

Frequency Missing = 152

Q43 RECODED: Staff at this surgeon's office includes receptionists, clerks, nurses, and other people working in the office. Were the staff at this surgeon's office as helpful as you thought they should be?

Q43R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	2333	85.65	2333	85.65
Somewhat Yes	307	11.27	2640	96.92
Somewhat No	50	1.84	2690	98.75
Definitely No	34	1.25	2724	100.00

Frequency Missing = 116

Q44 RECODED: Did the staff at this surgeon's office treat you with courtesy and respect?

Q44R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	1275	91.40	1275	91.40
Somewhat Yes	97	6.95	1372	98.35
Somewhat No	14	1.00	1386	99.35
Definitely No	9	0.65	1395	100.00

Frequency Missing = 1445

Q44 RECODED: How often did the staff at this surgeon's office treat you with courtesy and respect?

q44	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Never	3	0.23	3	0.23
Sometimes	30	2.26	33	2.49
Usually	125	9.42	158	11.91
Always	1169	88.09	1327	100.00

Frequency Missing = 1513

Q45 RECODED: Were you aware of any medical mistakes by this surgeon in your treatment?

	Q45R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes		119	4.55	119	4.55
No		2499	95.45	2618	100.00

Frequency Missing = 222

Q46 RECODED: Did these mistakes cause any significant problems for your treatment or condition?

	Q46R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes		61	50.00	61	50.00
Somewhat Yes		27	22.13	88	72.13
Somewhat No		4	3.28	92	75.41
Definitely No		30	24.59	122	100.00

Frequency Missing = 2718

Q47 RECODED: Did this surgeon explain how the mistake happened?

	Q47R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes		55	48.67	55	48.67
No		58	51.33	113	100.00

Frequency Missing = 2727

Q48 RECODED: Do you feel this surgeon really cared about you as a person?

	Q48R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes		2265	83.00	2265	83.00
Somewhat Yes		357	13.08	2622	96.08
Somewhat No		58	2.13	2680	98.20
Definitely No		49	1.80	2729	100.00

Frequency Missing = 111

Q49 RECODED: Did this surgeon check to be sure you understood everything?

	Q49R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes		2178	81.30	2178	81.30
Somewhat Yes		383	14.30	2561	95.60
Somewhat No		74	2.76	2635	98.36
Definitely No		44	1.64	2679	100.00

Frequency Missing = 161

Q50 RECODED: Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate this surgeon?

Q50R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Worst surgeon possible	18	0.67	18	0.67
1	3	0.11	21	0.78
2	5	0.19	26	0.97
3	17	0.63	43	1.60
4	15	0.56	58	2.16
5	49	1.83	107	3.99
6	22	0.82	129	4.81
7	54	2.01	183	6.83
8	182	6.79	365	13.62
9	411	15.34	776	28.96
10Best surgeon possible	1904	71.04	2680	100.00

Frequency Missing = 160

Q51 RECODED: Were the results of this surgery as good or better than you expected?

Q51R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Definitely Yes	1880	69.86	1880	69.86
Somewhat Yes	563	20.92	2443	90.78
Somewhat No	144	5.35	2587	96.14
Definitely No	104	3.86	2691	100.00

Frequency Missing = 149

Q52 RECODED: In general, how would you rate your overall health?

Q52R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Excellent	440	16.35	440	16.35
Very good	1011	37.57	1451	53.92
good	875	32.52	2326	86.44
Fair	293	10.89	2619	97.32
Poor	72	2.68	2691	100.00

Frequency Missing = 149

Q53 RECODED: What is your age?

Q53R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
18 to 24 years	40	1.48	40	1.48
25 to 34 years	106	3.92	146	5.40
35 to 44 years	218	8.07	364	13.47
45 to 54 years	376	13.91	740	27.38
55 to 64 years	621	22.97	1361	50.35
65 to 74 years	715	26.45	2076	76.80
75 years or older	627	23.20	2703	100.00

Frequency Missing = 137

Q54 RECODED: Are you male or female?

Q54R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Male	1261	47.46	1261	47.46
Female	1396	52.54	2657	100.00

Frequency Missing = 183

Q55 RECODED: Not counting this surgery, about how many other surgeries have you had?

Q55R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	234	8.68	234	8.68
1 surgery	345	12.80	579	21.48
2 surgeries	465	17.25	1044	38.72
3 to 5 surgeries	1064	39.47	2108	78.19
6 to 9 surgeries	423	15.69	2531	93.88
10 or more	165	6.12	2696	100.00

Frequency Missing = 144

Q56 RECODED: What is the highest grade or level of school that you have completed?

Q56R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
8th grade or less	78	2.93	78	2.93
Some high school, but did Not graduate	137	5.15	215	8.08
high school graduate or GED	750	28.20	965	36.28
Some college or 2-year degree	779	29.29	1744	65.56
4-year college graduate	413	15.53	2157	81.09
More than 4-year college degree	503	18.91	2660	100.00

Frequency Missing = 180

Q57 RECODED: Are you of Hispanic or Latino origin or descent?

Q57R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes, Hispanic or Latino	75	2.88	75	2.88
No, Not Hispanic or Latino	2525	97.12	2600	100.00

Frequency Missing = 240

Q58A RECODED: What is your race?

Q58AR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
White Not marked	346	12.70	346	12.70
White marked	2378	87.30	2724	100.00

Frequency Missing = 116

Q58B RECODED: What is your race?

Q58BR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Black or African American Not marked	2564	94.13	2564	94.13
Black or African American marked	160	5.87	2724	100.00

Frequency Missing = 116

Q58C RECODED: What is your race?

Q58CR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Asian Not marked	2697	99.01	2697	99.01
Asian marked	27	0.99	2724	100.00

Frequency Missing = 116

Q58D RECODED: What is your race?

Q58DR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Native Hawaiian or Other Pacific Islander Not marked	2720	99.85	2720	99.85
Native Hawaiian or Other Pacific Islander marked	4	0.15	2724	100.00

Frequency Missing = 116

Q58E RECODED: What is your race?

Q58ER	Frequency	Percent	Cumulative Frequency	Cumulative Percent
American Indian or Alaskan Native Not marked	2688	98.68	2688	98.68
American Indian or Alaskan Native marked	36	1.32	2724	100.00

Frequency Missing = 116

Q58F RECODED: What is your race?

Q58FR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Other Not marked	2669	97.98	2669	97.98
Other marked	55	2.02	2724	100.00

Frequency Missing = 116

Appendix E. Health Status Cognitive Testing Findings

In Round 1, at least 7 respondents were comparing themselves to their past (pre-surgery) selves. In Round 2, at least 4 respondents were doing the same thing. This is very rare in other CAHPS surveys.

Since 11 of 30 (37%) of the cognitive testing participants were comparing themselves to their pre-surgical selves, their responses reflect surgical outcomes. Accordingly, we decided not to use the overall health item as a case-mix adjuster for the Surgical Experience of Care Questionnaire because of concerns about endogeneity.

Round 1 Cognitive Testing Results

56. In general, how would you rate your overall health?

- 1 Excellent
- 2 Very good
- 3 Good
- 4 Fair
- 5 Poor

Goal: Determine the comparison group being used in making this judgment/

When you said [RESPONSE], who were you comparing yourself to? That is, what kinds of people were you comparing yourself to?

ID	Survey response	Verbal response
E01	Very good	I was comparing to myself a year ago, before I started having all this trouble. I was a runner, and now I can't run as long and hard. [If you compared yourself to another group of people, who?] I guess two-lunged people. [Possible problem if the item wants them to compare to a group of people]
E02	Excellent	I was comparing me to myself. [Yourself before the surgery?] Yeah, and after the surgery. My healing ability and because there were no complications. [Possible problem if the item wants them to compare to a group of people]
E03	Fair	I compared me to myself when I was in excellent condition. I've been at poor, too. [Possible problem if the item wants people to compare themselves to a group of people.]
E11	Fair	This problem, diabetes, arthritis. He compared himself "to people my age I guess" and didn't consider himself to be in great shape because they play golf, etc. <i>[No problem: compared himself to people his age; this seems reasonable]</i>
E12	Excellent	"When I read this question, it's conflicting.... Do they mean now or... overall... in 46 years?" "In general' can mean a lot of things." (he said that if they had this survey in the doctor's office it might specify "since your surgery, how would you rate..."). Who

ID	Survey response	Verbal response
		were you comparing yourself to? "I wasn't comparing myself to people..." he said he was comparing himself to himself having come from a state of very poor health to having improved greatly. <i>[Definite problem: E12 is comparing to a past version of himself, E11 is comparing to other people his age. Maybe the question should specify comparison reference]</i>
E13	Good	comparing to "people who don't have anything wrong." <i>[Possible problem with comparison group?]</i>
E21	Good	Today?? I was comparing myself to myself when I was 25, as opposed to myself at 52. I didn't have knee problems at 25.
E22	Very good	Comparing myself to someone who had cancer.
E23	Very good	I don't have any problems. But excellent is working out and you are. I don't smoke and rarely drink. I don't have any other health issues. I could lose a few pounds and could work out more. I don't think I compared myself to anyone. Maybe a self examination.
E24	Very good	Not excellent b/c I am a little overweight, a little bad cholesterol. But I don't take any meds, and I have a Crohn's disease. Especially for my age. I compared myself to other people my age or younger.
E25	Very good	Not comparing myself to anyone. I am a member at a gym. I tend to eat a healthy diet. I think I am above average. Excellent someone who has a stricter diet, stricter work out regimen.
S01	Fair	I am comparing myself with other people of my same age [No problem]
S02	Fair	I am comparing me with myself. I feel things I should not be feeling at my age [no problem]
S03	Fair	I have some health problems [No problem]
S11	Very good	NO PROBLEM. Comparing to self, because she still has symptoms. Excellent means that you don't have any problems.
S12	Fair	NO PROBLEM. Comparing to self. I still have pain, I have high blood pressure, hi cholesterol. So it's not good.
S13	Good	NO PROBLEM. Was comparing to myself before the surgery.

Round 2 Cognitive Testing Results

54. In general, how would you rate your overall health?

- 1 Excellent
 2 Very good
 3 Good
 4 Fair
 5 Poor

Goal: Determine the comparison group being used in making this judgment/

When you said [RESPONSE], who were you comparing yourself to? That is, what kinds of

people were you comparing yourself to?

ID	Survey response	Verbal response
E04	Fair	I don't like this question [because it makes her feel bad about herself]. I was comparing to myself, how healthy do I feel. I would have said "good" if I had been to the gym this week. It can change frequently depending on physical and mental health. [No problem]
E14	Very good	"not excellent because I'm overweight, but I'm losing weight" Who comparing to? "Me, my past, when I was younger." She said that when she said she's overweight it was because they have a chart that says she's overweight, so it's a combination, you can't help but compare yourself to other people. <i>[No problem if we are sticking with the idea that it's OK if some people compare themselves to a previous self and some people compare themselves to others their age]</i>
E15	Very good	"I don't know!" Who comparing to? "All the teachers in my department who are younger but I can do all the same things they can.... I don't really compare myself to other 60-year-olds." <i>[Possible problem: this respondent seemed to pick an unusual comparison group]</i>
E16	Very good	"This foot thing has really set me back." Who comparing to? "Pretty much myself... some of the people that I know that are approximately my age." <i>[No problem if it's OK to compare to previous self AND others]</i>
E26	Poor	She was comparing herself to 20 years ago. Now, she takes 14 medications and there is a list of things wrong with her today that she did not have 20 years ago. Potential problem: She was comparing her health to what it was when she was younger, rather than people her own age.
E27	Very good	She was deciding between very good and good. She knows she needs to lose weight, but she does not have any major health issues like diabetes or high blood pressure. She was comparing herself to her mom (who has Parkinson's and cancer), her daughter (who has diabetes), and her husband (who has a terrible cough and can barely move some days).
E28	Very good	No one.
E29	Excellent	No, no comparison, how I feel, my numbers based on my physical
E30	Very good	Because for now, but they have to recheck everything every few months. I wasn't comparing myself to anyone. Given the diagnosis.
S04	Good	I have an small thing here and there. I was comparing myself with myself
S05	Good	"Toda mi salud?" She asked? [Potential problem. Can we just delete toda?] I have had other surgeries, I don't feel a constant pain, but sometimes I feel pain.
S14	Excellent	Comparing to myself.
S15	Regular	Comparing to myself, I have a lot of problems.

F. Final Version of Survey

SURVEY INSTRUCTIONS

- ◆ Answer all the questions by checking the box to the left of your answer.
- ◆ You are sometimes told to skip over some questions in this survey. When this happens you will see an arrow with a note that tells you what question to answer next, like this:

Yes → *If Yes, Go to Question 1 on Page 1*

No

If you have any questions about the survey or require assistance answering the questions, please call x-xxx-xxx-xxxx.

YOUR SURGEON

1. **Our records show that the surgeon named in the enclosed letter performed surgery on you on the date indicated in the letter. Is this right?**
- ¹ Yes → **If Yes, Go to Question 2**
- ² No → **If No, Please check this box and return the survey in the enclosed envelope.**

BEFORE YOUR SURGERY

2. **Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?**
- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no
3. **Did this surgeon or this surgeon's staff give you easy to understand instructions about getting ready for your surgery?**
- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no
4. **Before your surgery, how many office visits did you have with this surgeon?**
- ¹ None → **If None, Go to Question 14**
- ² 1 visit
- ³ 2 visits
- ⁴ 3 visits

- ⁵ 4 to 6 visits
- ⁶ 7 or more visits
5. **During your office visits before your surgery, did this surgeon tell you there was more than one way to treat your condition?**
- ¹ Yes
- ² No → **If No, Go to Question 8**
6. **During your office visits before your surgery, did this surgeon ask which way to treat your condition you thought was best for you?**
- ¹ Yes
- ² No
7. **During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?**
- ¹ Yes
- ² No
8. **During your office visits before your surgery, did this surgeon listen carefully to you?**
- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no
9. **During your office visits before your surgery, did this surgeon spend enough time with you?**
- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

10. During your office visits before your surgery, did this surgeon encourage you to ask questions?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

11. During your office visits before your surgery, did this surgeon treat you with courtesy and respect?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

12. During your office visits before your surgery, did this surgeon or this surgeon's staff use diagrams, models, videos, or other materials to help explain things to you?

- 1 Yes
- 2 No → If No, Go to Question 14

13. Did these diagrams, models, videos or other material help you better understand your condition and its treatment?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

YOUR SURGERY

14. After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?

- 1 Yes

2 No → If No, Go to Question 17

15. Did this visit make you feel more calm and relaxed?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

16. Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery?

- 1 Yes
- 2 No
- 3 Don't know

ANESTHESIOLOGY

17. Were you given something so you would not feel pain during your surgery?

- 1 Yes
- 2 No → If No, Go to Question 25 on page 3

18. Who gave you something so you would not feel pain during your surgery?

- 1 An anesthesiologist did this
- 2 This surgeon did this → If this surgeon did this, Go to Question 25
- 3 Don't know → If Don't know, Go to Question 25

19. **Did this anesthesiologist encourage you to ask questions?**

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

20. **Did you ask this anesthesiologist any questions?**

- 1 Yes
- 2 No → **If No, Go to Question 22**

21. **Did this anesthesiologist answer your questions clearly?**

- 1 Yes
- 2 No

22. **After you arrived at the hospital or surgical facility, did this anesthesiologist visit you before your surgery?**

- 1 Yes
- 2 No → **If No, Go to Question 24**

23. **Did talking with this anesthesiologist during this visit make you feel more calm and relaxed?**

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

24. **Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?**

- 0 Worst anesthesiologist possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best anesthesiologist possible

AFTER YOUR SURGERY

25. **Did this surgeon or this surgeon's staff explain what to expect during your recovery period?**

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

26. Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery period?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

26. Did this surgeon or this surgeon's staff give you easy to understand instructions about what to do during your recovery period?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

28. Did this surgeon make sure you were physically comfortable or had enough pain relief after you left the facility where you had your surgery?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

29. After your surgery, did you talk with this surgeon by phone or visit the surgeon at his or her office?

- 1 Yes
- 2 No → If No, Go to Question 35 on page 5

30. After your surgery, did this surgeon listen carefully to you?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

31. After your surgery, did this surgeon spend enough time with you?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

32. After your surgery, did this surgeon encourage you to ask questions?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

33. After your surgery, did this surgeon treat you with courtesy and respect?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

34. After your surgery, how many times did you visit this surgeon's office?

- 1 None
- 2 1 visit
- 3 2 visits
- 4 3 visits
- 5 4 to 6 visits
- 6 7 or more visits

STAFF AT THIS SURGEON'S OFFICE

35. Staff at this surgeon's office includes receptionists, clerks, nurses, and other people working in the office. Were the staff at this surgeon's office as helpful as you thought they should be?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

36. Did the staff at this surgeon's office treat you with courtesy and respect?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

YOUR OVERALL CARE FROM THIS SURGEON

37. Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate this surgeon?

- 0 Worst surgeon possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best surgeon possible

ABOUT YOU

38. In general, how would you rate your overall health?

- 1 Excellent
- 2 Very good
- 3 Good
- 4 Fair
- 5 Poor

39. What is your age?

- 1 18 to 24 years
- 2 25 to 34 years
- 3 35 to 44 years
- 4 45 to 54 years
- 5 55 to 64 years
- 6 65 to 74 years
- 7 75 years or older

40. Are you male or female?

- 1 Male
- 2 Female

41. Not counting this surgery, about how many other surgeries have you had?

- 1 None
- 2 1 surgery
- 3 2 surgeries
- 4 3 to 5 surgeries
- 5 6 to 9 surgeries
- 6 10 or more

42. What is the highest grade or level of school that you have completed?

- 1 8th grade or less
- 2 Some high school, but did not graduate
- 3 High school graduate or GED
- 4 Some college or 2-year degree
- 5 4-year college graduate
- 6 More than 4-year college degree

43. Are you of Hispanic or Latino origin or descent?

- 1 Yes, Hispanic or Latino
- 2 No, not Hispanic or Latino

44. What is your race? Please mark one or more.

- 1 White
- 2 Black or African American
- 3 Asian
- 4 Native Hawaiian or Other Pacific Islander
- 5 American Indian or Alaska Native
- 6 Other

THANK YOU

Please return the completed survey in the postage-paid envelope.

Appendix:

D. Surgical CAHPS: Cognitive Testing of the English and Spanish Survey
Instruments



AMERICAN INSTITUTES FOR RESEARCH®

Surgical CAHPS: Cognitive Testing of the English and Spanish Survey Instruments

Prepared for:
THE AMERICAN COLLEGE OF SURGEONS

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MAY 25, 2008

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EXECUTIVE SUMMARY

The American Institutes for Research (AIR) and Westat are developing a Cross-Surgical Specialty Version of the Consumer Assessment of Healthcare Providers and Systems (CAHPS) Group/Clinician Specialist Survey. Both English and Spanish versions of the survey are being developed. To test the draft survey instruments, AIR conducted 30 cognitive interviews with 20 English- and 10 Spanish-speaking patients who had undergone a non-emergency, 90-day global surgery within the past 12 months.

We conducted two rounds of cognitive testing in March 2008. The first round was carried out with 17 participants (11 English speakers and 6 Spanish speakers). The surveys were revised on the basis of the first round findings. Then, a second round of testing was conducted with 13 participants (9 English speakers and 4 Spanish speakers). Ten of the English language cognitive interviews were conducted in Palo Alto, California and ten were conducted in Raleigh, North Carolina. Five of the Spanish language cognitive interviews were conducted in Palo Alto, California and five were conducted in Washington, D.C. Each cognitive interview lasted approximately 2 hours. A trained cognitive interviewer administered the draft survey and conducted each interview using a semi-structured protocol.

The Round 1 cognitive testing revealed a variety of problems in the initial survey drafts. Changes were implemented and tested in Round 2, resulting in an improved survey. Examples of the types of revisions made to the draft Surgical CAHPS surveys include the following:

- A chronological ordering of sections was deemed the most intuitive order for respondents.
- Some of the section headings in the survey were simplified. For example, “Your Pre-Operative Care From This Surgeon” was changed to “Before Your Surgery.”
- The introductory sentences at the beginning of sections were eliminated. In some cases, they caused confusion and, with the simplified headings, they were no longer necessary.
- A new screener question for patients with no follow-up office visits was added.
- A definition of “staff at this surgeon’s office” was added to one question to ensure that respondents include all staff in their responses (receptionists, clerks, nurses, etc.).
- A response option of “Don’t know” was added to several items.
- Wording changes were made to various items to simplify and clarify comprehension.
- Several items were eliminated because of limited response variation across rounds or significant respondent interpretation problems.
- Spanish language translation changes were made to some items.

In short, the cognitive testing led to many improvements in the draft Surgical CAHPS survey that will facilitate respondent comprehension and result in more valid and readily interpretable results in the field test. In addition, it helped to identify survey design issues that will be addressed experimentally in the field test, enhancing the value of the field test.

BACKGROUND

This report presents the results of cognitive interviews conducted to test a draft survey instrument about patient surgical care experiences. Patients, practice groups, health plans, and insurers have a need for information about their doctors' performance. Patients can use this information for choice; practices, health plans, and insurers can use this information for quality improvement efforts (potentially incorporating these measures into pay for performance systems). Additionally, specialty boards can (and should) use criterion-based measures as a basis for maintenance of certification.

A variety of CAHPS surveys have been developed to measure quality from the patient's perspective. For example, the existing CAHPS Clinician/Group Adult Specialty Survey provides sensitive measures of important domains of clinician care. But it was developed to measure the domains that are important for an ambulatory care visit. Although much of the care provided by surgeons is in this setting, surgical care is provided in other settings as well. Furthermore, this survey was developed to provide measures for domains of care that were important for a quality office visit, regardless of the purpose of the visit. There are other domains of care that are important for quality surgical care. This project will help the American College of Surgeons (ACS) develop a CAHPS instrument that is specific to surgical care.

To inform the development of the Surgical CAHPS survey, AIR conducted several formative research activities to identify domains of care that are responsible for positive surgical patient care experiences. These activities included a literature review, analyzing "critical incident" data from a Clinician/Group CAHPS study AIR previously completed, and conducting focus groups. On the basis of these formative activities, AIR drafted an English version of the Surgical CAHPS survey and translated it into Spanish. To test the draft versions of the English and Spanish Surgical CAHPS surveys, AIR conducted 30 cognitive interviews with 20 English- and 10 Spanish-speaking patients who had surgery within the past 12 months. This report presents the results of this cognitive testing with the draft survey instruments.

METHODS

This section describes the characteristics of the cognitive testing participants, and the approaches used to recruit for, conduct, and analyze the results from the cognitive interviews.

Recruitment

Most of the recruitment for the cognitive interviews was conducted by three firms that were retained by AIR for this purpose: L&E Research recruited 10 English-speaking participants in Raleigh, North Carolina; Shugoll Research recruited 5 Spanish-speaking participants in the Washington, DC metropolitan area; and Bay Area Research Group recruited 5 Spanish-speaking participants in the San Francisco Bay Area. In addition, AIR recruited 10 English-speaking participants in the San Francisco Bay Area; they were drawn from among those who took part in the focus groups conducted in AIR's Palo Alto, CA office in October and December 2007.

The three recruiting firms used a screening protocol to enlist a heterogeneous sample of respondents. These protocols were created by AIR in conjunction with Westat and ACS, and approved by AIR's Institutional Review Board (IRB) (see Appendix A for the English and

Spanish protocols used for screening purposes). To enable us to obtain a range of perspectives during the cognitive interviews and to ensure that the participants would be similar to the anticipated respondents to the final survey, specific inclusion/exclusion criteria were established for participation.

The criteria were as follows:

For both English- and Spanish-speaking participants

- A surgery within the past 12 months that was a “90-day global procedure” (a “major” procedure billing code requiring a 90-day follow up) and involved the use of anesthesia
- A scheduled (non-emergency) surgery
- At least 18 years old
- NOT involved in the delivery of health care (i.e., doctor, nurse, therapist, EMT, etc.)

In addition for English-speaking participants

- Able to read, speak and understand English

In addition for Spanish-speaking participants

- Of Hispanic/Latino descent
- Able to read, speak, and understand Spanish
- NOT bilingual, that is, not be able to read or speak English well or very well

In addition, the recruiting firms were instructed to choose participants that varied with respect to the following characteristics:

For both English- and Spanish-speaking participants

- Type of surgery
- Prior experience with surgery
- Gender
- Age
- Education

In addition for English-speaking participants

- Race/ethnicity

In addition for Spanish-speaking participants

- Familial countries of origin
- Primary or only language is Spanish
- Places of birth (US and foreign born)

Participants

A total of 37 participants were recruited; 24 English-speaking participants and 13-Spanish speakers. This “over-recruitment” ensured that we would have a final sample of 20 English-speaking participants and 10 Spanish-speaking participants (the excess participants either did not show or were cancelled in advance of their scheduled interviews). Tables 1 and 2 provide information about the 30 cognitive testing participants. Consistent with our recruitment plan, the participants were diverse in terms of their demographics, as well as the type of surgery they underwent. The Spanish-speaking participants, compared to the English-speaking participants, tended to be slightly younger and have less education. In addition, there were more females than males (8 versus 2, respectively) among the Spanish speakers.

Table 1. Participant Characteristics

	English	Spanish	TOTAL
Gender			
Male	10	2	12
Female	10	8	18
Age (in years)	51.1 (12.4)*	45.1 (13.4)*	49.1 (12.8)*
Race/Ethnicity			
Caucasian	14	0	14
African American	4	0	4
Hispanic	1	10	11
Asian	1	0	1
Education			
8 th grade or less	0	3	3
Some high school	0	3	3
High school graduate	2	2	4
Technical/vocational school	2	0	2
Some college	6	0	6
4-year college graduate	4	1	5
More than 4-year college	6	1	7
English Speaking Ability			
Very well		0	0
Well		0	0
Not well		9	9
Do not speak English		1	1
Language Spoken at Home			
Spanish		10	10
Family's Country of Origin			
Colombia		2	2
El Salvador		4	4
Mexico		3	3
Nicaragua		1	1
Born in the US			
Yes		2	2
No		8	8

*The first figure presents the mean. The standard deviation is presented in parentheses.

Table 2. Participants' Surgeries

ENGLISH	SPANISH
<ul style="list-style-type: none">▪ Pneumonectomy (lung removal)▪ Prostatectomy (2)▪ Lateral sphincterectomy▪ Hysterectomy▪ Gastric bypass▪ Abdominoplasty (tummy tuck) & Mastopexy (breast lift)▪ LP shunt replacement▪ Deviated septum repair and polyp removal from nose▪ Thyroid removal▪ Removal of lump from neck▪ Lipoma removal▪ Back surgery▪ Shoulder surgery (cartilage repair)▪ Total knee replacement▪ Foot surgery (3)▪ Carpel tunnel surgery▪ General index finger surgery	<ul style="list-style-type: none">▪ Valve transplant▪ Cervix removed▪ Tubal ligation▪ Gall bladder surgery (3)▪ Abdominoplasty (tummy tuck)▪ Partial knee replacement▪ Knee surgery (ligament repair)▪ Wrist surgery

Procedures

Two rounds of cognitive testing were held. The first round was conducted with 17 participants (11 English speakers and 6 Spanish speakers) during the week of March 3, 2008. The surveys were revised on the basis of the first round findings, then a second round of testing was carried out with 13 participants (9 English speakers and 4 Spanish speakers) during the week of March 17, 2008. Each cognitive interview lasted approximately 2 hours.

Consent. Before each interview, the participants were asked to complete a consent form, which was approved by AIR's IRB (see Appendix B for the English and Spanish consent forms). The form outlined the purpose of and procedures involved in the research, risks and benefits, issues related to confidentiality, whom to contact with questions and concerns, and the voluntary nature of participation. It noted that participants would receive \$100 in compensation for their time and travel expenses. The form also gave permission to audio- and video-record the interview.

Survey and Protocol. A trained cognitive interviewer administered the draft survey and conducted each interview using a semi-structured protocol. Both the draft survey and the protocol were developed by AIR and Westat in cooperation with ACS, and approved by AIR's IRB. In the first round of cognitive interviewing, two versions of the survey were tested (each in English and Spanish) to examine the effects, if any, of placing the survey sections in different orders. After the first round of testing, the results were summarized and revisions were made to the English and Spanish versions of the survey and protocol. These included deciding to use a chronological section order only. In the second round of cognitive interviewing, the revised versions of the surveys were tested. All materials were translated into Spanish and native Spanish speakers conducted the Spanish interviews. (For the English and Spanish surveys and protocols used in the cognitive interviews in Rounds 1 and 2, see Appendices C and D,

respectively. Only the surveys and protocols from the first round that had the sections in chronological order are included.)

The survey and protocol covered the following topics:

- Your Surgeon
- Before Your Surgery
- Your Surgery
- Anesthesiology
- After Your Surgery
- Staff at this Surgeon’s Office
- Your Overall Care from this Surgeon
- About You

Interview Sessions. During the sessions, an interviewer sat with the participant. Using the protocol as a guide, the interviewer introduced the participant to the survey and test procedures, guided them through the testing process, and queried them about the survey. After completing the consent form, participants were oriented to aspects of their surroundings that were outlined in the consent form (e.g., audio and video-recording equipment), as well as key features of the interview process (e.g., that they would be asked to complete a survey, “think aloud” while doing so, and tell us what they thought of the survey items and how they could be improved). Next, we conducted an exercise to train participants in thinking out loud, by first modeling this behavior and then asking them to complete a practice task. Finally, participants read and answered each survey question while thinking aloud. Interviewers queried participants during this process using both scripted and unscripted probes.

Each interviewer took notes during the interview session. In addition, the interviews were audio- and/or video-recorded and these recordings were used for reference to supplement the notes taken in real time. After each round of interviews, the open-ended interview responses were compiled into one document. In addition, at the end of both rounds of interviews, the survey response frequencies were tallied. (See Appendix E for the interview notes and Appendix F for the survey results.)

Analysis/Summary of Findings. After each round of cognitive testing, the Principal Investigator examined and summarized the survey responses and interview notes in terms of both general issues, as well as item-specific issues. These findings were then discussed with the cognitive interviewers, as well as the senior staff who oversaw this process, in extended debriefing meetings. Finally, the findings and recommendations for modifications were shared and discussed with ACS.

RESULTS

This section summarizes the results from the 30 cognitive interviews we conducted. As noted above, we conducted two rounds of cognitive testing. After each round, the survey responses and

interview notes were analyzed and summarized in terms of general issues, as well as item specific issues. Both are provided below for each round of interviews.

Round 1: General Issues

Section Headings. The phrases "pre-operative" and "post-operative" were not understood by all respondents. Some thought "post-operative" meant prior to their surgery. In addition, some of the section headings did not adequately describe the questions contained therein. For example, "Your Pre-Operative Care From This Surgeon" asked about care from the surgeon or this surgeon's staff.

Recommendation: Linguistic simplification. See table below.

Current Wording	Recommended (New) Wording
Your Surgeon	(no change)
Your Pre-Operative Care From This Surgeon	Before Your Surgery
Your Surgery	(no change)
Anesthesiology	(no change)
Your Post-Operative Care From This Surgeon	After Your Surgery
Staff at This Surgeon's Office	(no change)
Your Overall Care From This Surgeon	(no change)
About You	(no change)

Introductions. Several respondents did not read the introductory sentences that preceded the items in most sections. In at least one case (discussed subsequently), the introductory sentence created confusion.

Recommendation: Eliminate introductory sentences. With the simplified headings, they no longer appear to be necessary.

Never-Always vs. Graduated Yes-No scale. Respondents generally preferred the Yes-No scale. In several cases, the Never-Always scale was a source of respondent problems (for example, when there was only one relevant visit).

Recommendation: Eliminate all Never-Always items by converting them to Yes-No items.

Patients with no follow-up office visits. At least two respondents did not have subsequent contact with their surgeon. This created problems in their response to items about their post-surgical encounters with the surgeon.

Recommendation: Use the item asking about number of post-operation visits as a screener for these questions. We had originally put this item at the end, since we wanted patient reports about communication and rapport to include telephone and other contacts -- and had assumed that all patients would have post-surgical contacts. In Round 2, we will cognitively test to see if non-visit contacts are also being considered in judgment formation.

Section order. There was no evidence of problems resulting from section order. Most staff preferred the chronological ordering of sections.

Recommendation: Use Version B (chronological ordering of sections). This ordering is presented in the table above.

Difficulties distinguishing "other staff" from "clerks and receptionists." In one office, the respondent reported that everyone was a nurse. Another reported that there was only one other staff person -- a receptionist. A third considered "an administrative assistant" to be "other staff." A fourth person considered "secretary" to be "other staff." Another included nurses in the initial item.

Recommendation: Combine items to ask about "the staff at this surgeon's office." It was pointed out that in typical Quality Improvement (QI) initiatives, all staff undergo training. The finer distinctions as a function of type of staff may therefore be unnecessary.

Spanish respondent. One Spanish language respondent commented that the wording of the Yes/No options sounded funny.

Recommendation: Test alternative wordings with Spanish speaking respondents.

Round 1: Item Specific Issues

Item	Problem	Recommendation
3/18. Did this visit make you feel less anxious?	<p>One respondent commented that nothing could make the respondent feel less anxious. Others claimed they weren't anxious.</p> <p>There were issues with the interpretation of 'angustia.'</p> <p>One respondent was confused about whether "Definitely yes" meant that they were more or less anxious.</p>	Change "less anxious" to "more calm and relaxed"
<p>7/22. Immediately after the surgery was over, did this surgeon or a member of the operating team discuss your surgery with your family or friends?</p> <p>(INTRO STATEMENT) These questions ask about your experiences with this surgeon and the surgeon's staff on the day of the surgery.</p>	<p>One respondent didn't know how to answer since he thought the item was asking about his knowledge of whether there was a discussion with friends/family IMMEDIATELY AFTER HIS SURGERY. That is, he knew this happened, but he didn't know that it had</p>	<p>Remove introductory statement.</p> <p>Change item to:</p> <p><i>Did this surgeon or a member of the operating team discuss your surgery with your family or friends immediately after the surgery was over?</i></p>

Item	Problem	Recommendation
	<p>happened immediately after the surgery.</p> <p>Since the introductory statement focuses the respondent on the day of the surgery, he was responding about his knowledge on the day of the surgery.</p>	
<p>8/23. Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery?</p>	<p>One respondent didn't know if this item was asking immediately after the surgery -- or days after. As noted above, the introductory statement focuses the respondent on the day of the surgery.</p>	<p>Remove the introductory statement.</p>
<p>11/26. Did an anesthesiologist do this or did this surgeon do this?</p> <p><input type="checkbox"/> Anesthesiologist did this <input type="checkbox"/> This surgeon did this --> If this surgeon did this, Go to question 33 <input type="checkbox"/> Don't know --> If Don't know, Go to question 33</p>	<p>One respondent noted, "Vague pronoun .. we can't have three thises."</p> <p>One Spanish language respondent answered about who was responsible for ordering the anesthesia.</p>	<p>Change to:</p> <p><i>Did an anesthesiologist or did this surgeon give you something so you would not feel pain during your surgery?</i></p> <p><i>Anesthesiologist gave me something</i> <i>Surgeon gave me something</i> <i>Don't know</i></p>
<p>14/29. Did this anesthesiologist answer your questions clearly?</p>	<p>Out of 11 individuals answering this item, 10 responded with either "Definitely yes" or "Definitely no."</p>	<p>Check results in second round. If they are repeated, make this into a dichotomous item.</p>
<p>16/31. Did this visit make you feel more calm and relaxed before your surgery?</p>	<p>At least 2 respondents responded affirmatively because of the medication that was provided.</p>	<p>Change to:</p> <p><i>Did talking with this anesthesiologist on the day of your surgery make you feel more calm and relaxed?</i></p>
<p>17/32. Usando un número del 0 al 10, el 0 siendo el peor anesthesiólogo posible y el 10 el mejor anesthesiólogo posible, ¿qué número usaría para calificar a éste anesthesiólogo?</p>	<p>Typos in the Spanish version. (Extra spaces in two places)</p>	<p>Correct typos.</p>

Item	Problem	Recommendation
<p>19/3. Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?</p>	<p>Respondents interpreted "information on your surgery" in very different ways. This could include (or not include) recovery, finances, procedures, and/or risks.</p>	<p>Since there are many other similar items, this item is a strong candidate for deletion.</p>
<p>20/4. Before your surgery, did this surgeon or this surgeon's staff use diagrams, models, videos, or other materials to help explain things to you?</p>	<p>A "No" response is not necessarily a sign of poor practice. Out of 6 "No's," one reported that it wasn't necessary since the respondent's lump was plainly visible.</p> <p>One respondent did not count hand-drawn materials.</p> <p>Another respondent counted the surgeon's marking of the site, pre-operatively.</p>	<p>No change. Hopefully, 'legitimate' reasons for no responses will be rare and randomly distributed.</p> <p>Move item to "Office visits series" and link to office visits.</p>
<p>22/6. Before your surgery, did you phone this surgeon's office with a medical question?</p> <p>¹ <input type="checkbox"/> Yes ² <input type="checkbox"/> No → If No, Go to Question 8</p> <p>23/7. Before your surgery, when you phoned this surgeon's office, how often did you get an answer to your medical question as soon as you needed?</p>	<p>Only one respondent said "Yes" to 22/6. Since this is a screener, few will answer 23/7. Accordingly, these items will add little information.</p>	<p>Consider deleting 22/6 and 23/7</p>
<p>25/9. During your office visits before your surgery, did this surgeon talk to you to find out about important things in your medical history?</p> <p>25/9. Durante las consultas previas a su cirugía, ¿hablo con usted este cirujano para enterarse de información importante sobre sus antecedentes médicos?</p>	<p>A "No" response is not necessarily a sign of poor practice. Out of 4 "No's," one respondent had been with the surgeon for 17 previous hospitalizations.</p> <p>"Antecedentes médicos" is the 'standard' CAHPS translation for medical history. This was an issue for a respondent, who</p>	<p>No change. Hopefully, 'legitimate' reasons for no responses will be rare and randomly distributed.</p> <p>Develop and administer probes to determine clearer wording in next round of cognitive testing.</p>

Item	Problem	Recommendation
	preferred "historica medicos."	
<p>26/10. Choices for treatment can include choices about surgery, medicine, or other treatment. During your office visits before your surgery, did this surgeon tell you there was more than one choice for your treatment?</p> <p>¹ <input type="checkbox"/> Yes ² <input type="checkbox"/> No --> If No, Go to Question 12</p> <p>27/11. During your office visits before your surgery, when there was more than one choice for your treatment, did this surgeon ask which choice you thought was best for you?</p>	<p>"Choices for treatment" is inconsistently interpreted.</p>	<p>Since the main purpose of this item is as a screener for the next item, change it to: <i>During your office visits before your surgery, did this surgeon tell you there was more than one way to treat you?</i></p> <p>To be parallel, change 27/11 to: <i>During your office visits before your surgery, did this surgeon ask which way you thought was best for you?</i></p>
<p>28/12. During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?</p>	<p>At least two participants only focused on "risks" rather than "risks and benefits."</p>	<p>Consider changing the item to ask only about risks. Discussion of benefits is probably much less important.</p>
<p>14. During your office visits before your surgery, how often did this surgeon spend enough time with you?</p>	<p>The Always-Never scale was problematic for at least 2 respondents (who only had a single visit). Another, who also had 1 visit, responded, "Sometimes," which is not logically possible. Others, with 2 visits, answered inconsistently.</p>	<p>Change item to a graduated yes/no item.</p>
<p>31/ 15. During your office visits before your surgery, how often did this surgeon encourage you to ask questions?</p> <p>31/15. Durante las consultas previas a su cirugía, ¿con qué frecuencia el cirujano le animó a hacer preguntas?</p>	<p>Two Spanish speaking respondents thought this was asking about how good they were at asking questions to the doctor rather than about how much the doctor encourages them to ask questions.</p>	<p>Translation issue, to be addressed in further discussions with translator.</p>

Item	Problem	Recommendation
<p>33. Did this surgeon or this surgeon's staff explain what to expect during your recovery?</p> <p>34. Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery?</p>	<p>Recovery" was a problem for at least 2 English language respondents. They were uncertain whether it was just in-hospital or referred to a longer period.</p> <p>One Spanish language respondent was confused, probably because she thought post-operative meant the period before the surgery.</p>	<p>Change "recovery" to "recovery period." (Q.35 uses 'recovery period.')</p>
<p>34. Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery?</p>	<p>One English language respondent interpreted 'you' to mean 'you' (plural) and reported about a spouse/significant other.</p>	<p>Although this may seem to be proxy reporting, the interpretation seems to be consistent with the intent of the item. No change is recommended.</p>
<p>36. Were you aware of any medical mistakes in your treatment?</p> <p>37. Did these mistakes cause any significant problems for your treatment or condition?</p> <p>38. Did this surgeon explain how the mistake happened?</p>	<p>One respondent reported about medical mistakes (related to post-surgical care) made by her doctor and not her surgeon. Another commented that medical mistakes can be made by nurses.</p> <p>It was pointed out that medical mistakes can occur at any time -- even prior to surgery.</p>	<p>Change to:</p> <p><i>Were you aware of any medical mistakes by this surgeon in your treatment?</i></p> <p>Move the medical mistakes items (36 - 38) to the "Overall Care" section.</p>
<p>39. Did this surgeon make sure you were comfortable or had enough pain relief after you left the place where you had your surgery?</p>	<p>This is a double-barreled question. One respondent interpreted "comfortable" as psychologically comfortable, creating difficulties in responding.</p> <p>Another respondent thought "the place where you had your surgery" might refer to the OR and thought the question was asking about pain relief in the hospital. (At least 5 respondents were</p>	<p>Although some surgeries (e.g., cataract surgery) are not associated with pain, this item probably needs to be focused on pain relief. This might require a screener.</p> <p>Since there is minimal response variance, this item is a candidate for deletion.</p> <p>Revise and test as:</p> <p><i>Did this surgeon make sure you were physically comfortable or</i></p>

Item	Problem	Recommendation
	thinking about in-hospital pain relief.)	<i>had enough pain relief after you left the facility where you had your surgery?</i>
40. Did this surgeon explain the results of your surgery in a way that was easy to understand?	At least 3 respondents had trouble with this item. One repeated the question; one misread it; one said that it wasn't clear. A fourth interpreted 'you' to be the plural form and reported about the explanation to his wife. A fifth respondent did not answer because she did not understand what "results" meant.	Delete, since we have several technical communication items.
41. After your surgery, did you phone this surgeon's office with a medical question?	Two English language respondents interpreted 'you' to mean 'you' (plural) and reported about calls made by a spouse/significant other.	Although this may seem to be proxy reporting, the interpretation seems to be consistent with the intent of the item. No change is recommended.
42. After your surgery, when you phoned this surgeon's office, how often did you get an answer to your medical questions as soon as you needed?	For at least 3 respondents, there was a problem with the Never-Always scale because they were talking about a single event. Additionally, one respondent considered the quality/utility of the answer in forming her judgment, in addition to the timeliness.	Change the item to a yes/no item.
44. After your surgery, how often did this surgeon spend enough time with you?	The Never-Always scale was a problem for at least 2 respondents.	Change the item to a yes/no item.
45. After your surgery, how often did this surgeon encourage you to ask questions?	One respondent reported about the PA rather than the surgeon because he had no post-operative visits.	Use the item asking about number of visits as a screener. Although some respondents who might have a basis for answering these items, even if they had no visits, will be screened out, we feel this will be less harmful than having inappropriate respondents
46. After your surgery, how often did this surgeon treat you with courtesy and respect?		

Item	Problem	Recommendation
47. After your surgery, how many office visits did you have with this surgeon?		answer these items.
48. How often were clerks and receptionists at this surgeon's office as helpful as you thought they should be? 49. How often were other staff at this surgeon's office as helpful as you thought they should be? 50. How often did clerks and receptionists at this surgeon's office treat you with courtesy and respect? 51. How often did other staff at this surgeon's office treat you with courtesy and respect?	<p>One respondent claims to have had no office visits (either pre- or post-op). However, the respondent answered items about pre-op visits without much difficulty.</p> <p>In one office, the respondent reported that everyone was a nurse. Another reported that there was only one other staff person -- a receptionist. A third considered "an administrative assistant" to be "other staff." Another included nurses in the initial item. A fourth included a secretary as "other staff."</p>	<p>Combine items and ask:</p> <p><i>Were the staff at this surgeon's office as helpful as you thought they should be?</i></p> <p><i>Did the staff at this surgeon's office treat you with courtesy and respect?</i></p>
56. In general, how would you rate your overall health?	At least 7 respondents were comparing themselves to their past (pre-surgery) selves. This is very rare in other CAHPS surveys.	This may create problems in the use of this item as a case-mix adjuster. Check psychometrics of this item.
59. Not counting this surgery, about how many other surgeries have you had?	Three people indicated that they would include dental surgeries. However, this was because of a need for anesthesia or because of invasiveness. They did not see dental surgeries as trivial. But, none counted dental surgeries in their response. One respondent one would count minor office surgeries as surgeries "because it can have small veins and bleed." But, she did not have such surgery.	No change.

Round 2: General Issues and Impacts of Round 1 Modifications

Section headings. The new section headings seemed to function well. For at least one respondent, the heading "Overall Care" worked well and addressed her question about whether certain questions were asking about pre-surgical events.

Response variation. Overall, there appeared to be less response variation in the second round. The respondents seemed to be more satisfied (11 out of 13 responded "Definitely yes" to the item asking if the results of the surgery were as good or better than they expected, vs. 10 of 17 in the first round). Scores on the global rating of the surgeon were also higher: 92% of Round 2 respondents rated their surgeon as a 9 or 10 vs. 75% of Round 1 respondents who rated their surgeon similarly. (See Overall Survey Response Frequencies in Appendix F.) Thus, it is not possible to determine whether the reduced response variation is due to the changes made after Round 1 (such as switch from a "Never-Always" scale to a Graduated Yes-No scale) or is due to the fact that the respondents were more satisfied overall.

Never-Always vs. Graduated Yes-No scale. In Round 1, respondents generally preferred the Yes-No scale. Furthermore, in several cases, the Never-Always scale was a source of respondent problems (for example, when there was only one relevant visit). So, in Round 2, all behavioral frequency ("Never-Always") items were converted into graduated Yes-No items ("Definitely yes-Definitely no"). In Round 2, for several of these converted items, the response variation was significantly reduced. This was particularly true for items dealing with "courtesy and respect" and "listening carefully to you."

Using the proportion of respondents choosing the highest category as an indicator of response variance, in round 1, 88% of the respondents responded "Always" for the surgeon courtesy and respect items; in round 2, 100% chose "Definitely yes." Similarly, for the office staff courtesy and respect items, 71% chose "Always" while 92% chose "Definitely yes." For the listening carefully items, 65% of respondents answered "Always" and 85% responded "Definitely yes."

It should be noted that there are many opportunities during a visit for a surgeon to "listen carefully" and to show "courtesy and respect." And, when asked, "Did this surgeon treat you with courtesy and respect?" or "Did this surgeon listen carefully to you?", some respondents might simply treat the question as asking whether or not this behavior ever occurred.

Recommendation: It is not possible to determine whether the decreased response variance of the "listen carefully" and "courtesy and respect" items reflects greater respondent satisfaction (in Round 2) or decreased item sensitivity. In order to decide whether the "listen carefully" and "courtesy and respect" items should be asked as behavioral frequency items or yes/no items, different versions of the questionnaire will be prepared and administered in the field test.

Patients with no follow-up office visits. In Round 1, at least two respondents did not have subsequent contact with their surgeon. This created problems in their responses to items about their post-surgical encounters with the surgeon. We created a new screener in Round 2. It worked for the Round 2 respondent without any follow-up visits.

Section order. In Round 1, we tested questionnaire versions with two different section orders. There was no evidence of problems resulting from section order. In Round 2, we used the order of Version B, Round 1 (chronological order of sections). This chronological ordering did not present problems to respondents.

Difficulties distinguishing "other staff" from "clerks and receptionists." In the first round of cognitive testing, we noted that respondents had difficulties distinguishing "other staff" from clerks and receptionists. In one office, the respondent reported that everyone was a nurse. Another reported that there was only one other staff person -- a receptionist. A third considered "an administrative assistant" to be "other staff." A fourth person considered "secretary" to be "other staff." Another included nurses in the initial item.

Accordingly, in this round, we combined the "other staff" and "clerks and receptionists" items into items asking about "the staff at this surgeon's office." Unfortunately, 5 of the 13 respondents did not include the behaviors of receptionists in forming their judgments. They focused on staff involved in the provision of care.

Recommendation: Define 'staff at this surgeon's office' in an introductory sentence that is part of question 45: "Staff at this surgeon's office includes receptionists, clerks, nurses, and other people. Were the staff at this surgeon's office as helpful as you thought they should be?"

Round 2: Item Specific Issues

Item	Problem	Recommendation
<p>3. Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?</p> <p>3. ¿Este cirujano o su personal le dieron suficiente información sobre su cirugía antes de realizarla?</p>	<p>One respondent commented that in Spanish, "'realizar' means 'was it done when one needed it. It does not mean the same as hacerla."</p>	<p>Spanish translation is being reviewed.</p>
<p>5. Before your surgery, did you phone this surgeon's office with a medical question?</p> <p>¹<input type="checkbox"/> Yes ²<input type="checkbox"/> No → If No, Go to Question 7</p> <p>6. Before your surgery, when you phoned this surgeon's office, how often did you get an answer to your medical question as soon as you needed?</p>	<p>In Round 1, only one respondent said "Yes" to 5; in Round 2, 3 said yes. Since this is a screener, few will answer 6. Accordingly, these items will add little information.</p>	<p>Consider deleting 5 and 6.</p>
<p>7. Before your surgery, how many office visits did you have with this surgeon?</p>	<p>Some respondents would include visits related to previous surgeries related to the underlying condition.</p>	<p>The inclusion of "loosely" related visits does not appear to be a problem because they are related to the underlying condition.</p> <p>Since one of the main purposes of this item is to screen out</p>

Item	Problem	Recommendation
		respondents who had no pre-op visits, overcounting is not a major issue.
<p>8. During your office visits before your surgery, did this surgeon talk to you to find out about important things in your medical history?</p> <p>8. Durante las consultas previas a su cirugía, ¿hablo con usted este cirujano para enterarse de información importante sobre sus antecedentes médicos?</p>	<p>A "No" response is not necessarily a sign of poor practice. In the first round, out of 4 "No's," one respondent had been with the surgeon for 17 previous hospitalizations. In the second round, 2 of the 3 "No's" were because the surgeon knew the patient's history.</p> <p>"Antecedentes médicos" is the 'standard' CAHPS translation for medical history. This was an issue for a respondent, who preferred "historica medicos."</p>	<p>Legitimate reasons for 'no' responses seem to be nearly as prevalent as other reasons. Either consider deleting or add an item asking how many surgeries this doctor has performed on the patient (to allow this issue to be addressed analytically).</p> <p>"Historica medicos" should be seriously considered as a replacement.</p>
<p>11. During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?</p>	<p>In Round 1, at least two participants only focused on "risks" rather than "risks and benefits." In Round 2, another participant only focused on "risks."</p>	<p>Since "risks and benefits" is common jargon and since respondents were always including discussions of risks in forming their judgments, this was not felt to be serious enough to warrant a change.</p>
<p>12. During your office visits before your surgery, did this surgeon listen carefully to you?</p>	<p>As noted in the general problems, switching this from a behavioral frequency item may have substantially reduced response variance.</p>	<p>Consider using the initial wording of the item:</p> <p><i>During your office visits before your surgery, how often did this surgeon listen carefully to you?</i></p>
<p>13. During your office visits before your surgery, did this surgeon spend enough time with you?</p> <p>Durante las consultas previas a su cirugía, ¿pasó este cirujano suficiente tiempo con usted?</p>	<p>Two Spanish language respondents answered about the total amount of time over all of their pre-op visits. Even though they were satisfied with the length of time associated with an individual visit, they were not satisfied with the total amount of time that they spent with the surgeon.</p>	<p>Review Spanish translation to determine if there is a way to make this clearer.</p>
<p>15. During your office visits</p>	<p>As noted in the general</p>	<p>Consider using the initial wording</p>

Item	Problem	Recommendation
before your surgery, did this surgeon treat you with courtesy and respect?	problems, switching this from a behavioral frequency item may have eliminated response variance.	of the item: <i>During your office visits before your surgery, how often did this surgeon treat you with courtesy and respect?</i>
16. During your office visits, did this surgeon or this surgeon's staff use diagrams, models, videos, or other materials to help explain things to you?	A "No" response is not necessarily a sign of poor practice. In the first round, out of 6 "No's," one reported that it wasn't necessary since the respondent's lump was plainly visible. In the second round, one (of 3 "No") respondents said she didn't want any, since it was a minor procedure.	No change. Hopefully, 'legitimate' reasons for no responses will be rare and randomly distributed.
23. Before you left the hospital or surgical facility, did this surgeon visit <u>you</u> and discuss the outcome of your surgery?	Two respondents said that they didn't know. One of them refused to answer the question; the other decided to answer, "No."	Add a "Don't know" response option to this question.
26. Did an anesthesiologist do this or did this surgeon give you something so you would not feel pain during your surgery? ¹ <input type="checkbox"/> Anesthesiologist did this ² <input type="checkbox"/> This surgeon did this --> If this surgeon did this, Go to question 33 ³ <input type="checkbox"/> Don't know --> If Don't know, Go to question 33	Two respondents had trouble reading this question. They were able to answer it properly.	Simplify question: <i>Did an anesthesiologist or this surgeon give you something so you would not feel pain during your surgery?</i>
28. Did you ask this anesthesiologist any questions?	One respondent asked a non-medical question and responded affirmatively. Another respondent also thought the item was concerned with any type of question.	What is the intent of this item? If it is intended to measure technical communication skills, "medical" should precede question. However, if it is just a general communication/rapport item, further modifications may be necessary.
29. Did this anesthesiologist answer your questions clearly?	In Round 1, 10 out of 11 individuals answering this item responded with either "Definitely yes" or "Definitely	Make this into a dichotomous item.

Item	Problem	Recommendation
	no." In Round 2, all 9 respondents answered "Definitely yes" or "Definitely no."	
<p>31. Did talking with this anesthesiologist during this visit make you feel more calm and relaxed?</p>	<p>Two respondents did not answer this. One wasn't nervous; the other wasn't sure if an epidural counted.</p> <p>Another answered "Somewhat no" because he had already received an injection to help him calm down.</p>	<p>If patients should not receive sedatives prior to meeting the anesthesiologist, negative answers reflect poorer care -- but that is not the purpose of this item. If the prevalence of patients receiving sedatives prior to speaking with the anesthesiologist is low, this is less of a problem.</p>
<p>32. Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?</p>	<p>At least 3 respondents reported difficulty comparing their anesthesiologist to other anesthesiologists.</p>	<p>None.</p>
<p>34. ¿Este cirujano o su personal le advirtieron sobre qué signos o síntomas requerirían atención médica inmediata durante su tiempo de recuperación?</p> <p>34. Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery period?</p>	<p>In items 33 - 35, the phrase recovery period (tiempo de recuperación) is used. Two of the Spanish speaking respondents thought this only referred to the first 24 hours or the first 3 days after surgery.</p>	<p>Check to see if this can be addressed through rewording the item.</p>
<p>36. Did this surgeon make sure you were physically comfortable or had enough pain relief after you left the facility where you had your surgery?</p> <p>¿Se aseguró este cirujano de que usted se sintiera físicamente cómodo o tuviera un alivio adecuado del dolor después de salir de las instalaciones donde</p>	<p>One respondent did not attend to the fact that this item was asking about care after being released.</p> <p>A Spanish respondent also responded about care received in the hospital. However, this was due to translation issues: "Las instalaciones ... de la cirugía" is confusing. It can</p>	<p>Use visual emphasis (underlining) to emphasize <u>after you left the facility</u>.</p> <p>Try to come up with another way of translating "facility where you had your surgery."</p>

Item	Problem	Recommendation
tuvo la cirugía?	be interpreted as either the surgery room or the hospital	
39. After your surgery, did you visit this surgeon at the surgeon's office, or talk with this surgeon?	One respondent was confused by the item wording; another didn't like the fact that "surgeon" appeared three times in the question.	Simplify the item: <i>After your surgery, did you phone this surgeon or visit this surgeon at his or her office?</i>
40. After your surgery, did this surgeon listen carefully to you?	As noted in the general problems, switching this from a behavioral frequency item may have reduced response variance.	Consider using the initial wording of the item: <i>After your surgery, how often did this surgeon listen carefully to you?</i>
43. After your surgery, did this surgeon treat you with courtesy and respect?	As noted in the general problems, switching this from a behavioral frequency item may have eliminated response variance.	Consider using the initial wording of the item: <i>After your surgery, how often did this surgeon treat you with courtesy and respect?</i>
45. Were the staff at this surgeon's office as helpful as you thought they should be?	<p>In the first round of cognitive testing, we noted that respondents had difficulties distinguishing "other staff" from clerks and receptionists. In one office, the respondent reported that everyone was a nurse. Another reported that there was only one other staff person -- a receptionist. A third considered "an administrative assistant" to be "other staff." A fourth person considered "secretary" to be "other staff." Another included nurses in the initial item.</p> <p>In this round, we combined the "other staff" and "clerks and receptionists" items into items asking about "the staff at this surgeon's office." Five of the 13 respondents did not include the behaviors of receptionists in forming their judgments. They focused on staff involved</p>	<p>Define 'staff at this surgeon's office' in an introductory sentence that is part of question 45:</p> <p><i>Staff at this surgeon's office includes receptionists, clerks, nurses, and other people. Were the staff at this surgeon's office as helpful as you thought they should be?</i></p>

Item	Problem	Recommendation
	in the provision of care.	
46. Did the staff at this surgeon's office treat you with courtesy and respect?	As noted in the general problems, switching this from a behavioral frequency item may have substantially reduced response variance.	Consider using a behavioral frequency item: <i>How often did the staff at this surgeon's office treat you with courtesy and respect?</i>
54. In general, how would you rate your overall health?	In Round 1, at least 7 respondents were comparing themselves to their past (pre-surgery) selves. In Round 2, at least 4 respondents were doing the same thing. This is very rare in other CAHPS surveys.	This may create problems in the use of this item as a case-mix adjuster. Check psychometrics of this item.
57. Not counting this surgery, about how many other surgeries have you had?	As in Round 1, several people indicated that they would include dental surgeries -- and one person did include wisdom teeth removal as a surgery. However, this was because of a need for anesthesia or because of invasiveness. They did not see dental surgeries as trivial. One respondent would count minor office surgeries as surgeries "because even though it's small, the mole can be big trouble."	No change, assuming that we are interested in surgeries respondents perceive as being "substantial."

CONCLUSIONS

The Round 1 cognitive testing revealed a variety of problems in the initial survey drafts. Changes were implemented and tested in Round 2, resulting in an improved survey. Examples of the types of revisions made to the draft Surgical CAHPS surveys include the following:

- A chronological ordering of sections was deemed the most intuitive order for respondents.
- Some of the section headings in the survey were simplified. For example, “Your Pre-Operative Care From This Surgeon” was changed to “Before Your Surgery.”
- The introductory sentences at the beginning of sections were eliminated. In some cases, they caused confusion and, with the simplified headings, they were no longer necessary.

- A new screener question for patients with no follow-up office visits was added.
- A definition of “staff at this surgeon’s office” was added to one question to ensure that respondents include all staff in their responses (receptionists, clerks, nurses, etc.).
- A response option of “Don’t know” was added to several items.
- Wording changes were made to various items to simplify and clarify comprehension.
- Several items were eliminated because of limited response variation across rounds or significant (unfixable) respondent interpretation problems.
- Spanish language translation changes were made to some items.

One issue that was raised, but could not be resolved by the cognitive testing results concerned the use of graduated Yes-No response options versus Never-Always response options for five items. In Round 1, respondents generally preferred the Yes-No scale. Furthermore, in several cases, the Never-Always scale was a source of respondent problems. Therefore, in Round 2, all of the Never-Always scales were converted to graduated Yes-No scales. In Round 2, for several of these converted items, the response variation was significantly reduced. This was particularly true for items dealing with "courtesy and respect" and "listening carefully to you," which suggested that perhaps these items should go back to Never-Always scales. However, there was less response variation in Round 2 overall, suggesting that respondents were simply more satisfied with their care. Therefore, alternate versions of the survey will be used in the field test to enable us to examine the impact of using the two different response options for the five items in question.

In addition, a comparison of the survey results for the items that used different response options in Round 1 and Round 2 led the project team to wonder about the impact of the order of the graduated Yes-No response options. In CAHPS surveys, behavioral frequency items and rating items are worded in a "negative to positive" fashion. That is, the most negative response options are provided before increasingly positive ones. This ordering was implemented to minimize ceiling effects (that is, large proportions of respondents selecting the most positive response option, decreasing the sensitivity of the items). However, CAHPS Yes-No and graduated Yes-No items are asked in the opposite direction, with the most positive response options preceding the more negative ones. This decision was made by the CAHPS team because respondents are more used to Yes-No questions rather than No-Yes questions. Unfortunately, this decision might exacerbate ceiling effects. Therefore, the field test also will use a version of the survey in which the order of the graduated Yes-No response options are reversed (see Appendix G for the English and Spanish field test surveys that use the standard order of the graduated Yes-No response options for all items).

In short, the cognitive testing led to many improvements in the draft Surgical CAHPS survey that will facilitate respondent comprehension and result in more valid and readily interpretable results in the field test. In addition, it led to experimental design changes that will result in an improved and more informative field test.

APPENDIX A:
SURGICAL CAHPS COGNITIVE TESTING
RECRUITMENT CRITERIA AND SCREENER

AIR Surgical CAHPS Cognitive Testing English Recruitment Criteria and Screener

Recruitment Criteria

- ◆ 20 English
- ◆ Half of the interviews will be held on the west coast (in AIR's Palo Alto office) and half will be held on the east coast (in AIR's North Carolina office)
- ◆ Eligibility requirements:
 - Surgery within the past 12 months.
 - Surgeries generally involve the administration of some form of anesthesia (e.g., unconscious sedation, conscious sedation, spinal block). Surgeries do NOT include simple, in-office procedures such as a mole removal or colonoscopies. Dental surgeries are NOT included. Laser eye surgeries, C-sections, and arthroscopies are eligible surgeries.
 - Scheduled surgeries only. Emergency surgeries are NOT included.
 - Participants must be at least 18 years old.
 - Participants must be able to read, speak, and understand English.
 - Participants must NOT be involved in the delivery of health care (i.e., doctors, nurses, therapists, EMTs, etc.)

Diversity requirements

- Must include a mix of different types of surgeries
- Must include a mix of people with different levels of experience with surgery
- Approximately equal numbers of males and females
- Must include different racial/ethnic groups
- Must include a range of ages
- Must include individuals with different levels of education

Opening

Good Morning/Afternoon/Evening, this is **[INSERT NAME]** from **xxx**, a professional market research firm. We are recruiting people who have recently had surgery to participate in in-person interviews that involve helping to evaluate and improve a survey that assesses the care provided by surgeons.

The project is being conducted for the American College of Surgeons. Participants will receive \$100 for participation in a two-hour individual interview. This study is strictly for research purposes; nothing is being sold.

I just have a few questions to see if you're eligible and I'll only take a few minutes of your time.

(CONTINUES)

Screening Questions

1. Do you work in the field of health care? For example, are you a physician, nurse, or therapist?

Yes

No --> **I'm sorry, but people who work in the health care field are not eligible to participate. Thank you for your time.**

2. Have you had surgery within the past twelve months; that is since [DATE]?

Yes

No --> **I'm sorry, but we're only recruiting people who had surgery within the past 12 months, so you're not eligible. Thank you for your time.**

3. a. What kind of surgery was this?

b. Were you given any anesthesia as part of the procedure? That is were you given something to block the pain, help you relax, or cause you to sleep during the procedure such as a pill, an injection, or something to inhale?

Yes

No --> **I'm sorry, but we're only recruiting people who had surgery that involved anesthesia, so you're not eligible. Thank you for your time.**

CHECK TO DETERMINE IF APPROPRIATE TYPE OF SURGERY. IF YOU ARE UNSURE IF APPROPRIATE TYPE OF SURGERY, SAY: I'm not sure if this is the sort of surgery in which they are interested. I'll check with my supervisor. But, let me continue in case you're eligible for participation.

4. Was this emergency surgery?

Yes, emergency surgery --> **I'm sorry, but people who had emergency surgeries are not eligible to participate. Thank you for your time.**

No, scheduled surgery

5. Have you previously had any other surgeries?

Yes

No

6. How old are you?

(Record years, mark box, and proceed as indicated)

_____ Less than 18 years --> **I'm sorry, but we're only recruiting people who are over age 18. Thank you for your time.**

7. What is the highest grade or level of school you have completed? *(Read options)*

8th Grade or less

Some high school, but did not graduate

High school graduate or GED

Technical or vocational school

Some college

4 year college graduate

More than 4-year college degree

(CONTINUES)

8. What is your race/ethnicity? (*Read options*)

- White
 - Black or African American
 - Hispanic or Latino
 - Asian
 - Native American
 - Pacific Islander
 - Other (please specify):
-

9. Gender [**DO NOT ASK**]

- Male Female

Closing

CHECK TO SEE IF RESPONDENT IS ELIGIBLE AND IS NOT A MEMBER OF A GROUP THAT IS OVERREPRESENTED IN RECRUITING.

IF YOU ARE UNSURE OF THE TYPE OF SURGERY SAY:

I'm not sure if your surgery is a type of surgery that we're interested in. I'll check with my supervisor. If it is, what's the best way for me to get in touch with you? GET CONTACT INFORMATION, THANK THEM FOR THEIR TIME, AND END.

IF RESPONDENT IS A MEMBER OF AN 'OVER-RECRUITED GROUP' SAY:

We need to have a diverse group of people for the interviews -- and, it looks like we've got enough people like you. However, if someone cancels, what's the best way for me to get in touch with you? GET CONTACT INFORMATION, THANK THEM FOR THEIR TIME, AND END.

IF THEY ARE ELIGIBLE AND NOT A MEMBER OF AN 'OVER-RECRUITED' GROUP SAY:

You're eligible to participate. We're going to have our interviews on [DATES and TIMES] at [LOCATION]. Can you come at (any of these times/this time)? IF RESPONDENT DOESN'T SAY YES OR HESITATES... We're doing this to develop a survey that can improve quality of care for people when they are treated by surgeons and anesthesiologists. Everything you say will be confidential. And, you will receive \$100 for participating in this 2 hour interview.

IF THEY AGREE TO PARTICIPATE SAY:

Great, let me get your contact information, and schedule you for one of the interviews.

- Get contact information and write in below
- Use scheduling sheet to schedule interview

CONCLUDE WITH:

Please arrive 15 minutes early since the session will begin promptly.

If Palo Alto - The session will be held at the AIR office in Palo Alto, which is at 1070 Arastradero Rd., Suite 200. AIR is a not-for-profit research company that will be conducting the interviews for the American College of Surgeons.

If North Carolina – The group will be held at the AIR office in Chapel Hill, which is at 101 Conner Drive, Suite 301. AIR is a not-for-profit research company that will be conducting the interviews for the American College of Surgeons.

I'll send you directions and information about who to contact if you have any questions. Would you prefer that we send this information by regular mail or email?

- Regular mail
- Email

We'll remind you of the interview the day before. What's the best number to reach you at? (Mark with asterisk on contact information.)

If something happens and you will not be able to attend the interview, please call me at xxx so I can find an alternate. Thanks again.

CONTACT INFORMATION

INTERVIEWEE NAME: _____

ADDRESS: _____

CITY, ST, ZIP: _____

E-MAIL: _____

PHONE NUMBER: [DAY] _____ [EVE] _____

[CELL] _____

RECRUITED BY: _____

AIR Surgical CAHPS Cognitive Testing Spanish Recruitment Criteria and Screener

Recruitment Criteria

- ◆ 10 people whose primary or only language is Spanish
- ◆ Half of the interviews will be held on the West Coast (at AIR's Palo Alto office) and half will be held on the East Coast (at AIR's Silver Spring office)
- ◆ Eligibility requirements:
 - Surgery within the past 12 months.
 - Surgeries generally involve the administration of some form of anesthesia (e.g., unconscious sedation, conscious sedation, spinal block). Surgeries do NOT include simple, in-office procedures such as a mole removal or colonoscopies. Dental surgeries are NOT included. Laser eye surgeries, C-sections, and arthroscopies are eligible surgeries.
 - Scheduled surgeries only. Emergency surgeries are NOT included.
 - Participants must be at least 18 years old.
 - Participants must be of Hispanic/Latino descent.
 - Participants must be able to read, speak, and understand Spanish.
 - Participants should not be bilingual, that is, they should not be able to read or speak English well or very well.
 - Participants must NOT be involved in the delivery of health care (i.e., doctors, nurses, therapists, EMTs, etc.)

Diversity requirements

- Must include a mix of different types of surgeries
- Must include a mix of people with different levels of experience with surgery
- Approximately equal numbers of males and females
- Must include a mix of different familial countries of origin
- Must include people whose only language is Spanish
- Must include a mix of places of birth (US and foreign born)
- Must include a range of ages
- Must include individuals with different levels of education

Opening

Buenos(as) días/tardes, me llamo [INSERT NAME] y le estoy llamando de parte de (xx). Estamos trabajando con el Colegio Americano de Cirujanos (American College of Surgeons por su nombre en inglés) en un estudio sobre las experiencias que la gente ha tenido con cirugías médicas. Le aseguramos que no estamos tratando de vender nada. Este es un estudio legítimo. Buscamos a personas que hayan tenido una cirugía recientemente para que participen en una entrevista que nos ayudará a evaluar y mejorar una encuesta sobre la prestación de atención médica quirúrgica.

Este estudio está siendo realizado por el Colegio Americano de Cirujanos (American College of Surgeons por su nombre en inglés). Participantes en el estudio recibirán \$100 por participar en una entrevista que durará 2 horas. Este estudio es solo para propósitos de investigación, no es para vender algo.

En primer lugar, me gustaría hacerle unas preguntas para ver si usted cumple los requisitos para participar en las entrevistas. ¿Le parece bien? La información que usted comparta conmigo es confidencial y no se compartirá con nadie más que no sea parte del grupo de investigación. Hacemos estas preguntas porque necesitamos incluir personas con diferentes antecedentes y experiencias. ¿Le parece bien que le haga estas preguntas para ver si usted puede participar en las entrevistas?

Screening Questions

1. **¿Trabaja en el área de servicios médicos? Por ejemplo, ¿es usted doctor, enfermera o terapeuta?**

Sí

No --> **Lo siento, pero si trabaja en servicios médicos no califica para participar en esta entrevista. Gracias por su tiempo.**

2. **¿En los últimos doce meses, ha tenido una operación o cirugía? O sea desde [DATE]?**

Sí

No --> **Lo siento, pero necesitamos participantes que hayan tenido una cirugía en los últimos doce meses, y por lo tanto no califica. Gracias por su tiempo.**

3. a. **¿Qué tipo de operación fue?**

b. **¿Le pusieron anestesia como parte de la operación? Es decir, ¿le dieron algo para que no sintiera dolor, para ayudarlo a relajarse, o algo para que durmiera durante la operación como un pastilla, inyección, o algo para inhalar?**

Sí

No --> **Lo siento, pero necesitamos participantes que hayan tenido una cirugía con anestesia, y por lo tanto no califica. Gracias por su tiempo.**

CHECK TO DETERMINE IF APPROPRIATE TYPE OF SURGERY. IF YOU ARE UNSURE IF APPROPRIATE TYPE OF SURGERY, SAY: No estoy seguro(a) si esta clase de cirugía califica para el estudio. Necesito preguntarle a mi supervisor pero, me gustaría continuar con las preguntas por si acaso si califica. ¿Está bien?

4. ¿Fue una cirugía de emergencia?

- Sí, fue una cirugía de emergencia --> **Lo siento, pero personas que hayan tenido cirugías de emergencia no califican. Gracias por su tiempo.**
- No, fue una cirugía **programada**

5. ¿Ha tenido otras cirugías anteriormente?

- Sí
No

6. ¿Qué idioma habla con más frecuencia en casa?

- Español
- Inglés u otro idioma --> **Lo siento, pero estamos buscando a personas que hablen español con más frecuencia en casa. Gracias por su tiempo.**

7. ¿Puede leer en español?

- Sí
No --> **Lo siento, pero estamos buscando a personas que pueden leer en español. Gracias por su tiempo.**

8. ¿Habla inglés? Diría que lo habla: [READ ALL THE RESPONSES]:

- Bastante bien, hablo y entiendo inglés tanto como el español --> **Lo siento, pero no estamos buscando a personas que hablen bien el inglés. Gracias por su tiempo.**
- Bien, hablo y entiendo mucho inglés --> **Lo siento, pero no estamos buscando a personas que hablen bien el inglés. Gracias por su tiempo.**
- No muy bien, hablo y entiendo un poquito de inglés
- No hablo inglés

9. ¿Es usted de origen hispano o latino, o su familia es de ascendencia hispana o latina?

- Sí
No --> **Lo siento, pero solo buscamos a personas de ascendencia hispana o latina. Gracias por su tiempo.**

10. ¿Cuál es su país de origen o el de su familia?

Write in Name of Country: _____

Mexico or Caribbean, Central or South American Country

Other --> **Lo siento, pero solo buscamos a personas de otros países de origen. Gracias por su tiempo.**

11. ¿Nació en los Estados Unidos?

Sí

No

12. ¿Cuántos años tiene?

_____ IF Less than 18 years --> **Lo siento, pero solo buscamos a personas mayores de 18 años. Gracias por su tiempo.**

13. ¿Cuál es el grado o nivel escolar más alto que ha completado? (Read options)

- 8 años de escuela o menos
- De 9 a 12 años de escuela, pero sin obtener el diploma de escuela secundaria o preparatoria (*high school*)
- Graduado(a) de la escuela secundaria (*high school*), diploma de escuela secundaria, preparatoria, o su equivalente (por ejemplo: GED)
- Escuela de enseñanza técnica
- Algunos cursos universitarios o un título universitario de un programa de 2 años (por ejemplo: AA, AS)
- Título universitario de 4 años (por ejemplo: BA, AB, BS)
- Estudios superiores al título universitario de 4 años

14. GÉNERO [NO PREGUNTAR A MENOS DE QUE NO ESTÉ SEGURO]

Hombre

Mujer

Closing

CHECK TO SEE IF RESPONDENT IS ELIGIBLE AND IS NOT A MEMBER OF A GROUP THAT IS OVERREPRESENTED IN RECRUITING.

IF YOU ARE UNSURE OF THE TYPE OF SURGERY SAY:

No estoy seguro(a) si alguien con esta clase de cirugía califica. Necesito preguntarle a mi supervisor. Si califica, como me puedo volver a comunicar con usted? GET CONTACT INFORMATION, THANK THEM FOR THEIR TIME, AND END.

IF RESPONDENT IS A MEMBER OF AN 'OVER-RECRUITED GROUP' SAY:

Estamos buscando gente con una variedad de características. Desafortunadamente, ya hemos encontrado varias personas con características parecidas a las tuyas. Sin embargo, si alguien cancela, ¿cómo me puedo volver a comunicar con usted? GET CONTACT INFORMATION, THANK THEM FOR THEIR TIME, AND END.

IF THEY ARE ELIGIBLE AND NOT A MEMBER OF AN 'OVER-RECRUITED' GROUP SAY:

Gracias por responder a todas mis preguntas. Usted cumple todos los requisitos para participar en las entrevistas. Las entrevistas se llevarán a cabo en [DATES and TIMES] en [LOCATION]. ¿Puede venir en cualquiera de estos días y horarios? IF RESPONDENT DOESN'T SAY YES OR HESITATES... Su participación nos ayudaría a elaborar una encuesta para mejorar la calidad de la atención que recibe la gente cuando ven al cirujano y al anestesiólogo.. Todo lo que nos diga será confidencial y recibirá \$100 por participar en esta entrevista de 2 horas.

IF THEY AGREE TO PARTICIPATE SAY:

Muy bien, entonces necesito su número de teléfono y su dirección para hacerle una cita para la entrevista. GET CONTACT INFORMATION AND WRITE IN BELOW

- Use scheduling sheet to schedule interview

CONTACT INFORMATION:

Teléfono:

Dirección:

CONCLUDE WITH:

Por favor llegue a la entrevista 15 minutos antes de la cita.

If Palo Alto – La entrevista será en las oficinas de los Institutos Americanos de Investigación en Palo Alto, 1070 Arastradero Rd., Suite 200. Los entrevistadores trabajan en los Institutos Americanos de Investigación (AIR por sus siglas en ingles) y van a hacer las entrevistas por parte del Colegio Americano de Cirujanos (American College of Surgeons por su nombre en inglés).

If Silver Spring – La entrevista será en las oficinas de los Institutos Americanos de Investigación en Silver Spring, 10720 Columbia Pike, Suite 500. Los entrevistadores trabajan en los Institutos Americanos de Investigación (AIR por sus siglas en ingles) y van a hacer las entrevistas por parte del Colegio Americano de Cirujanos (American College of Surgeons por su nombre en inglés).

Le mandaré instrucciones para llegar a la cita así como la información sobre a quien debe llamar si tiene alguna pregunta. ¿Cómo prefiere que le mande la información, por correo regular o por correo electrónico?

- Correo regular
- Correo electrónico

Le recordaremos de la cita para la entrevista un día antes. ¿A qué número de teléfono le puedo llamar? (Mark with asterisk on contact information.)

Si algo sucede y no puede asistir a la entrevista, por favor llámeme tan pronto pueda al teléfono **xxx** y así puedo buscar a otra persona. Gracias.

CONTACT INFORMATION

INTERVIEWEE NAME: _____

ADDRESS: _____

CITY, ST, ZIP: _____

E-MAIL: _____

PHONE NUMBER: [DAY] _____ [EVE] _____

[CELL] _____

RECRUITED BY: _____

APPENDIX B:
SURGICAL CAHPS COGNITIVE TESTING
CONSENT FORMS

Consent Form for Interviews about Surgical Care Survey

Purpose

The American Institutes for Research® (AIR) is working with the American College of Surgeons (ACS) to develop a survey to assess the quality of surgical care. As part of developing the survey, AIR is conducting interviews to learn about potential problems people may experience when completing the survey. This will allow us to modify and improve the survey before it is administered widely.

Procedures

You have been selected to participate because you recently had surgery. If you participate, you will be asked to take part in an individual interview. During the interview, you will be asked to answer the questions in the survey and tell us what you are thinking when you answer them. In other words, we will ask you to think out loud while answering. We also will ask you some questions about the survey and your thoughts about the instructions and items.

Occasionally, people who are working with ACS on this project may observe the interview to learn about what is and is not working on the survey. Depending on the location of your interview, they may be observing from behind a one-way mirror. The interview will be videotaped and it will last about 2 hours.

Risks

The possible risks for you from being in this study are minimal, and we have taken steps to minimize them. You may find it mildly inconvenient to participate because of the time and travel expenses involved, but you will be paid \$100 to reimburse you for these expenses. Also, you may have some concerns about confidentiality as you will be videotaped, but your identity and the information collected from you will be treated in a confidential manner, as is described below.

Benefits

Although this is not a direct benefit to you, this study will ultimately result in the development of a survey that will help improve the quality of surgical care.

Confidentiality

We will keep your identity and the information you supply confidential and share it only with people who have agreed to keep it confidential, such as project staff and study sponsors. All data (i.e., session notes, video-recordings) will be recorded with code numbers in place of your name. A data file that links you with your code number will be kept in secured files separate from the data (i.e., locked for hard copy and password protected for electronic files).

With your permission, we will be video-recording the interview for reference, to ensure accuracy in capturing your thoughts and reactions. The recordings will be destroyed at the end of the project. However, we may retain parts of recordings, or occasionally full recordings, to be used only for educational or research purposes.

Information that would identify you will be disclosed only with your specific written permission. Any data that will be included in AIR reports to the ACS and any data that may be published (e.g., in scientific journals) will not reveal your identity.

There may be times when federal or state law requires disclosure of study data (e.g., through a court subpoena). This is extremely unlikely, but if it ever happens, we will make every effort to protect your personal information.

(continues)

More Information

Your participation in this study is completely voluntary. You can refuse to participate or discontinue your participation at any time without penalty.

If you have questions about this study, you can contact the Project Director, Andrea S. Burling, Ph.D. at ABurling@air.org, 650-843-8159, or c/o AIR, 1070 Arastradero Road, Suite 200, Palo Alto, CA 94304.

If you have concerns or questions about your rights as a participant, you can contact AIR's Institutional Review Board (which is responsible for the protection of study participants) at IRB@air.org, toll free at 1-800-634-0797 or c/o AIR, 1070 Arastradero Road, Suite 200, Palo Alto, CA 94304.

Informed Consent

By signing this form you are indicating that you have read and understood the information provided to you about your participation in this study, that you grant permission for the use of your video-recording for educational and research purposes, that you have had your questions answered, that you have decided to participate based on the information provided, and that a copy of this form has been given to you.

Print Name: _____

Signature: _____ Date: _____

Formulario de consentimiento para las entrevistas sobre la encuesta de atención quirúrgica

Propósito

La organización American Institutes for Research® (AIR) está trabajando en conjunto con el American College of Surgeons (ACS) en la preparación de una encuesta que sirva para evaluar la calidad de la atención quirúrgica. Durante la preparación de la encuesta, AIR está realizando entrevistas para averiguar qué problemas podrían tener las personas al contestar la encuesta. Esto nos permitiría modificarla y mejorarla antes de administrarla en todas partes.

Procedimientos

Usted ha sido seleccionado para participar porque tuvo una cirugía recientemente. Si participa, le pediremos que nos permita hacerle una entrevista individual. Durante la entrevista le pediremos que responda las preguntas de la encuesta y nos diga lo que está pensando cuando las responde. En otras palabras, le pediremos que piense en voz alta mientras las responde. También le haremos algunas preguntas sobre la encuesta y sobre lo que piensa de las instrucciones y las preguntas.

A veces las personas que trabajan con el ACS en este proyecto pueden observar la entrevista para averiguar qué cosas de la encuesta están funcionando bien o mal. Según el lugar en que se haga su entrevista, es posible que estas personas estén observando tras un espejo falso. La entrevista se grabará en cinta de video y durará unas 2 horas.

Riesgos

Los riesgos de participar en este estudio son muy pocos y hemos hecho lo posible por minimizarlos. Es posible que le parezca un poco incómodo participar a causa del tiempo que tendrá que invertir y los costos del viaje, pero le pagaremos \$100 para reembolsarle estos gastos. Además, es posible que le preocupe la confidencialidad por el hecho de que vamos a grabar la entrevista. Sin embargo, su identidad y la información que recolectemos de usted se mantendrán en absoluta reserva, como se describe más adelante.

Beneficios

Aunque esto no será un beneficio directo para usted, este estudio a la larga contribuirá a la preparación de una encuesta que servirá para mejorar la calidad de la atención quirúrgica.

Confidencialidad

Mantendremos en reserva su identidad y la información que nos proporcione, y sólo la compartiremos con personas que hayan accedido a mantenerla en reserva, como el personal del proyecto y los patrocinadores del estudio. Todos los datos (es decir, las notas de la sesión y las grabaciones en video) se identificarán con códigos numéricos en vez de su nombre. El documento de datos que lo relaciona a usted con su código numérico se conservará en archivos seguros, separados de los archivos que contienen la información (es decir, estará bajo llave si se trata de un documento impreso o protegido con contraseña si es un documento electrónico).

Contando con su permiso, grabaremos la entrevista a modo de referencia, con el fin de garantizar exactitud en la captación de sus pensamientos y reacciones. Las grabaciones se destruirán al final del proyecto. Sin embargo, es posible que conservemos partes de estas grabaciones y, en ciertos casos, las grabaciones completas, para usarlas exclusivamente con fines educativos o de investigación.

La información que pudiera identificarlo a usted sólo se revelará si usted ha otorgado un permiso específico por escrito. Ninguno de los datos que se incluyan en informes que AIR entregue al ACS o de los datos que puedan ser publicados (por ejemplo, en revistas científicas) revelará su identidad.

(continuación)

Puede haber ocasiones en las que una ley federal o estatal exija la revelación de los datos del estudio (por ejemplo, a través de una orden judicial). Esto es muy poco probable, pero si llegara a suceder, haremos todo lo posible para proteger su información personal.

Información adicional

Su participación en este estudio es completamente voluntaria. Usted puede rehusarse a participar o suspender su participación en cualquier momento sin que esto le acarree consecuencias negativas.

Si tiene preguntas sobre este estudio, puede comunicarse con la directora del proyecto, Andrea S. Burling, Ph.D., enviando un mensaje de correo electrónico a ABurling@air.org, llamando al 650-843-8159 o enviando una carta a: AIR, 1070 Arastradero Road, Suite 200, Palo Alto, CA 94304.

Si tiene inquietudes o preguntas sobre sus derechos como participante, puede comunicarse con el comité de ética de AIR (Institutional Review Board), que se encarga de la protección de los participantes en estudios, enviando un mensaje de correo electrónico a IRB@air.org, llamando a la línea gratuita 1-800-634-0797 o escribiendo una carta a: AIR, 1070 Arastradero Road, Suite 200, Palo Alto, CA 94304.

Consentimiento con conocimiento de causa

Al firmar este formulario usted indica que ha leído y entendido la información que se le ha proporcionado acerca de su participación en este estudio, que autoriza el uso de su grabación en video con fines educativos y de investigación, que le han respondido sus preguntas, que ha decidido participar con base en la información que le suministraron, y que ha recibido una copia de este formulario.

Nombre en letras de imprenta: _____

Firma: _____ Fecha: _____

APPENDIX C:
ROUND 1 SURGICAL CAHPS COGNITIVE TESTING
SURVEYS AND INTERVIEW PROTOCOLS

Surgical Care Questionnaire

Version B

2/29/08

SURVEY INSTRUCTIONS

- ◆ Answer all the questions by checking the box to the left of your answer.
- ◆ You are sometimes told to skip over some questions in this survey. When this happens you will see an arrow with a note that tells you what question to answer next, like this:

Yes → *If Yes, Go to Question 1 on Page 1*

No

YOUR SURGEON

1. Who is the surgeon who operated on you?

YOUR PRE-OPERATIVE CARE FROM THIS SURGEON

These questions ask about your experiences with this surgeon and the surgeon's staff before the day of your surgery.

2. Was your surgery scheduled as soon as you needed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

3. Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

4. Before your surgery, did this surgeon or this surgeon's staff use diagrams, models, videos, or other materials to help explain things to you?

- ¹ Yes
- ² No

5. **Did this surgeon or this surgeon's staff give you easy to understand instructions about getting ready for your surgery?**
- ¹ Definitely yes
 - ² Somewhat yes
 - ³ Somewhat no
 - ⁴ Definitely no
6. **Before your surgery, did you phone this surgeon's office with a medical question?**
- ¹ Yes
 - ² No → If No, Go to Question 8
7. **Before your surgery, when you phoned this surgeon's office, how often did you get an answer to your medical question as soon as you needed?**
- ¹ Never
 - ² Sometimes
 - ³ Usually
 - ⁴ Always
8. **Before your surgery, how many office visits did you have with this surgeon?**
- ¹ None --> If None, Go to Question 17
 - ² 1 Visit
 - ³ 2 Visits
 - ⁴ 3 Visits
 - ⁵ 4 to 6 Visits
 - ⁶ 7 or more Visits
9. **During your office visits before your surgery, did this surgeon talk to you to find out about important things in your medical history?**
- ¹ Yes
 - ² No

10. **Choices for treatment can include choices about surgery, medicine, or other treatment. During your office visits before your surgery, did this surgeon tell you there was more than one choice for your treatment?**
- ¹ Yes
- ² No --> If No, Go to Question 12
11. **During your office visits before your surgery, when there was more than one choice for your treatment, did this surgeon ask which choice you thought was best for you?**
- ¹ Yes
- ² No
12. **During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?**
- ¹ Yes
- ² No
13. **During your office visits before your surgery, how often did this surgeon listen carefully to you?**
- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always
14. **During your office visits before your surgery, how often did this surgeon spend enough time with you?**
- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

15. During your office visits before your surgery, how often did this surgeon encourage you to ask questions?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

16. During your office visits before your surgery, how often did this surgeon treat you with courtesy and respect?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

YOUR SURGERY

These questions ask about your experiences with this surgeon and the surgeon's staff on the day of the surgery.

17. After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?

- ¹ Yes
- ² No → **If No, Go to Question 19**

18. Did this visit make you feel less anxious?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

19. After you were admitted to the hospital or surgical facility, were there any long delays before your surgery began?

- ¹ Yes
- ² No → **If No, Go to Question 21**

20. Were you kept informed about how long you would have to wait for your surgery to begin?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

21. Were any family or friends in the building during your surgery?

- ¹ Yes
- ² No → If No, Go to Question 23

22. Immediately after the surgery was over, did this surgeon or a member of the operating team discuss your surgery with your family or friends?

- ¹ Yes
- ² No
- ³ Don't know

23. Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery?

- ¹ Yes
- ² No → If No, Go to Question 25

24. Did this visit occur in the first 24 hours after your surgery?

- ¹ Yes
- ² No

ANESTHESIOLOGY

25. Were you given something so you would not feel pain during your surgery?

- ¹ Yes
- ² No --> If No, Go to question 33

26. Did an anesthesiologist do this or did this surgeon do this?

- Anesthesiologist did this
- This surgeon did this --> **If this surgeon did this, Go to question 33**
- Don't know --> **If Don't know, Go to question 33**

27. Did this anesthesiologist encourage you to ask questions?

- Definitely yes
- Somewhat yes
- Somewhat no
- Definitely no

28. Did you ask this anesthesiologist any questions?

- Yes
- No --> **If No, Go to question 30**

29. Did this anesthesiologist answer your questions clearly?

- Definitely yes
- Somewhat yes
- Somewhat no
- Definitely no

30. After you arrived at the hospital or surgical facility, did this anesthesiologist visit you before your surgery?

- Yes
- No → **If No, Go to Question 33**

31. Did this visit make you feel more calm and relaxed before your surgery?

- Definitely yes
- Somewhat yes
- Somewhat no
- Definitely no

32. Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?

- 0 Worst anesthesiologist possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best anesthesiologist possible

YOUR POST-OPERATIVE CARE FROM THIS SURGEON

These questions ask about your experiences with this surgeon and the surgeon's staff after your surgery.

33. Did this surgeon or this surgeon's staff explain what to expect during your recovery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

34. Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

35. Did this surgeon or this surgeon's staff give you easy to understand instructions about what to do during your recovery period?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

36. Were you aware of any medical mistakes in your treatment?

- 1 Yes
- 2 No → **If No, Go to Question 39**

37. Did these mistakes cause any significant problems for your treatment or condition?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

38. Did this surgeon explain how the mistake happened?

- 1 Yes
- 2 No

39. Did this surgeon make sure you were comfortable or had enough pain relief after you left the place where you had your surgery?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

40. Did this surgeon explain the results of your surgery in a way that was easy to understand?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

41. After your surgery, did you phone this surgeon's office with a medical question?

- 1 Yes
- 2 No → If No, Go to Question 43

42. After your surgery, when you phoned this surgeon's office, how often did you get an answer to your medical questions as soon as you needed?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always

43. After your surgery, how often did this surgeon listen carefully to you?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always

44. After your surgery, how often did this surgeon spend enough time with you?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always

45. After your surgery, how often did this surgeon encourage you to ask questions?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

46. After your surgery, how often did this surgeon treat you with courtesy and respect?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

47. After your surgery, how many office visits did you have with this surgeon?

- ¹ None
- ² 1 Visit
- ³ 2 Visits
- ⁴ 3 Visits
- ⁵ 4 to 6 Visits
- ⁶ 7 or more Visits

STAFF AT THIS SURGEON'S OFFICE

48. How often were clerks and receptionists at this surgeon's office as helpful as you thought they should be?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

49. How often were other staff at this surgeon's office as helpful as you thought they should be?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always

50. How often did clerks and receptionists at this surgeon's office treat you with courtesy and respect?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always

51. How often did other staff at this surgeon's office treat you with courtesy and respect?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always

YOUR OVERALL CARE FROM THIS SURGEON
--

These questions ask about your experiences with this surgeon and the surgeon's staff before, during, and after your surgery.

52. How often did this surgeon check to be sure you understood everything?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always

53. Do you feel this surgeon really cared about you as a person?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

54. Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate this surgeon?

- 0 Worst surgeon possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best surgeon possible

55. Were the results of this surgery as good or better than you expected?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

ABOUT YOU

56. In general, how would you rate your overall health?

- 1 Excellent
- 2 Very good
- 3 Good
- 4 Fair
- 5 Poor

57. What is your age?

- 1 18 to 24 years
- 2 25 to 34
- 3 35 to 44
- 4 45 to 54
- 5 55 to 64
- 6 65 to 74
- 7 75 years or older

58. Are you male or female?

- 1 Male
- 2 Female

59. Not counting this surgery, about how many other surgeries have you had?

- 1 None
- 2 1 surgery
- 3 2 surgeries
- 4 3 to 5 surgeries
- 5 6 to 9 surgeries
- 6 10 or more surgeries

60. What is the highest grade or level of school that you have completed?

- 1 8th grade or less
- 2 Some high school, but did not graduate
- 3 High school graduate or GED
- 4 Some college or 2-year degree
- 5 4-year college graduate
- 6 More than 4-year college degree

61. Are you of Hispanic or Latino origin or descent?

- 1 Yes, Hispanic or Latino
- 2 No, not Hispanic or Latino

62. What is your race? Please mark one or more.

- 1 White
- 2 Black or African American
- 3 Asian
- 4 Native Hawaiian or Other Pacific Islander
- 5 American Indian or Alaskan Native
- 6 Other

THANK YOU

Please return the completed survey in the postage-paid envelope.

Surgical Care Survey
Cognitive Testing Protocol
Version 1b

February 29, 2008

Introduction

Before surveys are administered, we like to have people answer them to find out about potential problems. The way we do this is by having you answer the questions and tell us what you were thinking when you answered them. In other words, we want you to think out loud while answering.

Since people are not used to thinking out loud, I'd like to show you an example of what I mean. Suppose someone asked this question. (SHOW QUESTION: "How much did you talk on the telephone in the last week?") If someone asked me that, I would say:

Model the behavior, by recalling specific phone calls for home (e.g., "First, I'll figure out how much I use the phone at home. Let's see, I call my son about once a week, for about 30 minutes [WRITE DOWN NUMBER] and generally my calls with my daughter take about the same time [WRITE DOWN NUMBER]. Then, there are the telemarketers -- that's got to be another hour a week [WRITE DOWN NUMBER]. And calling my friends, to set up golf dates and things -- I guess that's about another hour a week [WRITE DOWN NUMBER]. I also use the phone for the Internet and e-mail, but I don't really think that's talking on the phone, so I won't count that.")

Then, recall phone calls from spouse/friend/family at work as a regular, daily event. Multiply this by five. Then, use an estimation and adjustment strategy for the week (e.g., "But last week I was on the phone a lot more than usual. We were arranging a party, so I'll double that for last week.")

Then, estimate normal daily work calls, and multiply by five. Write down this number. Raise a question about conference calls and video conferences (e.g., "I also was on a teleconference for two hours. Should I count that or not? It's talking on the phone, but it's not really talking by one person to just another person. So, I won't count that.")

Add up the numbers and present the answer.

Have the participant do the same thing.

If the participant doesn't seem to "get it," hand them the second question, "How many windows are in your home?" and ask them to answer it.

Do you have any questions?

Okay, let's start. I'd like you to pretend you received this survey in the mail, with the enclosed letter, and that you decided to answer it. Begin with the first question, and remember to think out loud as you answer the questions.

YOUR SURGEON

1. Who is the surgeon who operated on you?

YOUR PRE-OPERATIVE CARE FROM THIS SURGEON

These questions ask about your experiences with this surgeon and the surgeon's staff before the day of your surgery.

2. Was your surgery scheduled as soon as you needed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if respondent notices introductory sentence.

Determine if respondents are using "reasonable" criteria for determining their need for the surgery to be scheduled when it was scheduled.

INTERVIEWER: DID RESPONDENT READ OR SEEM TO NOTICE THE SENTENCE PRECEDING QUESTION 2?

YES NO DON'T KNOW

How come you said [RESPONSE] instead of [RESPONSE_{±1}]?

When was the surgery scheduled for? Do you remember the scheduled date?

Was this as soon as you wanted it or not?

3. Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

Goal: Determine how respondents who don't want information answer this question.

About how much information about your surgery did you want?

Do you think you got this much information or not?

IF INCONSISTENT WITH THEIR RESPONSE TO Q.3, SAY: So, can you explain a little more about why you said [RESPONSE TO Q. 3]?

4. Before your surgery, did this surgeon or this surgeon's staff use diagrams, models, videos, or other materials to help explain things to you?

¹ Yes

² No

Goal: Determine if there are appropriate reasons for a negative response.

IF YES: How did they do this?

IF NO: Why not?

Did you want them to explain things to you or not?

5. Did this surgeon or this surgeon's staff give you easy to understand instructions about getting ready for your surgery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if 'getting ready for surgery' is interpreted consistently.
Determine if scale is working as intended.*

*What do you think they mean by "instructions about getting ready for your surgery?"
Can you give me some examples of these instructions?*

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

6. **Before your surgery, did you phone this surgeon's office with a medical question?**

¹ Yes

² No → **If No, Go to Question 8**

Goal: Determine if 'medical question' is interpreted as intended.

What do you think they mean by 'medical question?' Can you give me some examples?

IF YES: What medical questions did you call about?

7. Before your surgery, when you phoned this surgeon's office, how often did you get an answer to your medical question as soon as you needed?

¹ Never

² Sometimes

³ Usually

⁴ Always

Goal: Determine if scale is appropriate for this question.

Determine how respondent makes judgment about whether the answer was "as soon as needed."

What do you think they mean by "as soon as you needed?"

About how many times did you call with medical questions?

And, about how many times did you get answers as soon as you needed?

IF RESPONSES APPEAR INCONSISTENT WITH ANSWER TO Q.7, PROBE TO DETERMINE REASON FOR DISCREPANCY.

8. Before your surgery, how many office visits did you have with this surgeon?

¹ None --> **If None, Go to Question 17**

² 1 Visit

³ 2 Visits

⁴ 3 Visits

⁵ 4 to 6 Visits

⁶ 7 or more Visits

Goal: Determine if all visits are being included or just visits related to this surgery.

Do you think they are asking about all the visits someone has ever had with their surgeon or only visits related to this particular surgery?

Why?

9. During your office visits before your surgery, did this surgeon talk to you to find out about important things in your medical history?

¹ Yes

² No

Goal: Determine if "important things in your medical history" is being interpreted consistently and properly.

Determine if discussions with the surgeon's staff are being included.

Determine if there are appropriate reasons for these discussions to NOT have been conducted.

What do you think they mean by "important things in your medical history?" What are some examples of "important things" in someone's medical history?

IF YES: Tell me a little more about this surgeon talking to you to find out important things about your medical history. What things were talked about?

Who did this -- the surgeon, the surgeon's staff, or both?

IF NO: Why not?

10. Choices for treatment can include choices about surgery, medicine, or other treatment. During your office visits before your surgery, did this surgeon tell you there was more than one choice for your treatment?

¹ Yes

² No --> **If No, Go to Question 12**

Goal: Determine if "choices" are interpreted to mean medical choices.

IF YES: Tell me about the choices that were discussed.

Is this question asking about the choice of whether or not to have the surgery -- or is it asking about something else? IF SOMETHING ELSE: What else?

11. During your office visits before your surgery, when there was more than one choice for your treatment, did this surgeon ask which choice you thought was best for you?

¹ Yes

² No

Goal: Determine if respondents are interpreting this item literally (i.e., the surgeon asking "Which choice do you think is best for you?").

IF NO: Why do you think the surgeon didn't ask which choice you thought was best?

How did the surgeon know which choice you preferred?

IF YES: How did the surgeon do this? How did the surgeon figure out which choice you thought was best for you?

12. During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?

¹ Yes

² No

Goal: Determine if "risks and benefits" is interpreted correctly.

Determine if talks with staff are being included.

IF YES: Tell me about this. What was discussed?

Were these discussions with the surgeon, the surgeon's staff, or both?

IF NO: Why not?

What do you think they mean by "risks and benefits of your treatment choices?" What are some (other) examples of this?

13. During your office visits before your surgery, how often did this surgeon listen carefully to you?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if this scale is working properly.

Determine if respondents can make appropriate judgments about the surgeon's attentiveness.

What do you think they mean by "listen carefully to you?" That is, what did the surgeon do or say that showed he/she was listening carefully to you?

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

SHOW ALTERNATE VERSION. There are different ways of asking questions. I'd like you to answer this wording of the question. Don't forget to think out loud as you're answering the question.

Which question did you prefer?

- Never - Always*
- Definitely Yes/No*
- No preference*

Why?

14. During your office visits before your surgery, how often did this surgeon spend enough time with you?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if this scale is working properly.

Determine if respondents can make appropriate judgments about spending enough time.

What do you think they mean by "spending enough time with you?"

So, about how many office visits did you tell me you had before your surgery?

And, for how many of these visits did the surgeon spend enough time with you?

IF RESPONSE IS INCONSISTENT, PROBE TO DETERMINE REASON FOR INCONSISTENCY.

15. **During your office visits before your surgery, how often did this surgeon encourage you to ask questions?**

¹ Never

² Sometimes

³ Usually

⁴ Always

Goal: Determine if this scale is appropriate.

Determine if respondents can make appropriate judgments about whether the surgeon encouraged questions.

What do you think they mean by "encourage you to ask questions?" That is, what can a surgeon say or do to encourage you to ask questions?

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

16. During your office visits before your surgery, how often did this surgeon treat you with courtesy and respect?

¹ Never

² Sometimes

³ Usually

⁴ Always

Goal: Determine if this scale is working properly.

Determine if respondents can make appropriate judgments about courtesy and respect.

What did the surgeon do or say that made you feel he/she was treating you with courtesy and respect during these office visits?

How would a surgeon who [USUALLY/SOMETIMES] treats patients with courtesy and respect be different from your surgeon?

YOUR SURGERY

These questions ask about your experiences with this surgeon and the surgeon's staff on the day of the surgery.

17. After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?

¹ Yes

² No → If No, Go to Question 19

Goal: Determine if respondent reads the introductory sentence.

Determine how the respondent interprets "visit."

See if patients who had in-office surgery have problems answering this item.

INTERVIEWER: DID RESPONDENT READ OR SEEM TO NOTICE THE SENTENCE PRECEDING QUESTION 17?

YES

NO

DON'T KNOW

IF NO TO Q.17: When did you first see the surgeon on the day of your surgery? Tell me a little about it.

Is this what you expected or not? Why?

Did you see anyone from the surgeon's staff or team on the day of your surgery, before your surgery? IF YES: Whom?

18. Did this visit make you feel less anxious?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if scale is appropriate
Determine how the respondent interprets "visit."*

Tell me a little more about this visit.

Where were you when the surgeon visited?

When was it?

And, how come you picked [RESPONSE] instead of [RESPONSE_{±1}]?

19. After you were admitted to the hospital or surgical facility, were there any long delays before your surgery began?

¹ Yes

² No → **If No, Go to Question 21**

Goal: Determine if "long delays" is consistently interpreted.

About how long did you have to wait after being admitted for your surgery to begin?

And, what do you think they mean by "long delays?" That is, how long is a "long delay?"

20. Were you kept informed about how long you would have to wait for your surgery to begin?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is appropriate

IF NOT "DEFINITELY NO": Tell me about it. That is, who kept you informed?

How often did they tell you?

Why did you choose [RESPONSE] instead of [RESPONSE_{±1}]?

21. Were any family or friends in the building during your surgery?

¹ Yes

² No → **If No, Go to Question 23**

Goal: Determine if 'in the building' is interpreted correctly.

What do you think they mean by "in the building?"

IF NO: Did you want any friends or family to be around during your surgery?

IF YES: How long were they in the building?

22. Immediately after the surgery was over, did this surgeon or a member of the operating team discuss your surgery with your family or friends?

¹ Yes

² No

³ Don't know

Goal: See if there were any confidentiality problems related to HIPAA.

Determine how people who do not want this information shared respond to the question.

IF YES: Tell me a little more about this. Who discussed the surgery? What did they say?

Did you want them to discuss the surgery with your family or friends -- or not?

IF NO OR DON'T KNOW: Did you want them to discuss the surgery with your family or friends -- or not? Why (not)?

23. Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery?

¹ Yes

² No → **If No, Go to Question 25**

Goal: Determine if respondent is aware of visit.

Determine if 'outcome of surgery' is interpreted as intended.

Determine how people who did not stay overnight answer this question.

What do you think they mean by "discuss the outcome of your surgery?"

IF YES: Tell me about this visit -- or visits.

IF NO: Did any one from the surgeon's staff visit you to discuss the outcome of your surgery before you left the facility?

Yes --> Tell me about this visit

No --> Why not?

About how long did you stay in the surgical facility?

24. Did this visit occur in the first 24 hours after your surgery?

¹ Yes

² No

Goal: Determine if heavily sedated patients can answer this question.

IF YES: What happened during this visit?

IF NO: How certain are you that the surgeon did not try to visit you during this period?

ANESTHESIOLOGY

25. Were you given something so you would not feel pain during your surgery?

¹ Yes

² No --> **If No, Go to question 33**

Goal: Determine if anesthesia is interpreted as intended.

IF NO: Were you given anything to put you to sleep during your surgery or not?

Yes --> And this is different from being given something so you wouldn't feel pain because

No --> Why not?

26. Did an anesthesiologist do this or did this surgeon do this?

¹ Anesthesiologist did this

² This surgeon did this --> **If this surgeon did this, Go to question 33**

³ Don't know --> **If Don't know, Go to question 33**

Goal: Determine if respondent is capable of determining who provided anesthesiology

IF ANESTHESIOLOGIST OR SURGEON: How do you know this?

IF DON'T KNOW: If you had to guess, how would you answer this question?

27. Did this anesthesiologist encourage you to ask questions?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if respondent is using reasonable criteria in deciding whether or not the anesthesiologist encouraged questioning.

Determine how respondents who do not want to ask questions answer this item.

IF DEFINITELY/SOMEWHAT YES: How did the anesthesiologist encourage you? That is, what did the anesthesiologist do or say that showed that he or she wanted you to ask questions?

IF DEFINITELY/SOMEWHAT NO: What did the anesthesiologist do or say that showed that he/she did NOT want you to ask questions?

28. Did you ask this anesthesiologist any questions?

¹ Yes

² No --> **If No, Go to question 30**

Goal: Verify that "questions" are being interpreted to mean "medical questions."

IF YES: What did you ask about?

IF NO: Why not?

What do you think they mean by "any questions?" That is, are they only interested in questions about anesthesiology or are they interested in other kinds of questions? IF OTHER: What kinds?

29. Did this anesthesiologist answer your questions clearly?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is appropriate.

How come you said [RESPONSE] instead of [RESPONSE_{±1}]?

30. After you arrived at the hospital or surgical facility, did this anesthesiologist visit you before your surgery?

¹ Yes

² No → **If No, Go to Question 33**

Goal: Confirm that respondent is not reporting other visits with the anesthesiologist.

IF YES: Tell me about this visit.

Where did it happen?

About how long was it?

What did the anesthesiologist say or do?

IF NO: Did you ever see this anesthesiologist before your surgery or not?

IF NO: Did you see anyone about anesthesiology before your surgery?

31. Did this visit make you feel more calm and relaxed before your surgery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is working properly.

How calm and relaxed were you before this visit?

And, how calm and relaxed were you after this visit?

*IF RESPONSES TO PROBE ARE INCONSISTENT WITH RESPONSE TO ITEM, SAY:
I'm a little confused. You said [RESPONSE TO Q.31] -- that the visit made you feel
more calm and relaxed. And, you said that before this visit, you felt [RESPONSE TO
FIRST PROBE]. And, after this visit, you felt [RESPONSE TO SECOND PROBE]. Can
you explain a little more?*

32. Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?

- 0 Worst anesthesiologist possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best anesthesiologist possible

Goal: Determine if scale is appropriate and that respondent is using reasonable criteria for making a judgment.

How did you figure this out? What were you thinking about?

IF NOT '3': What would an anesthesiologist that is rated "3" be like?

IF NOT '7': How about a "7?" What would an anesthesiologist like this do or say?

YOUR POST-OPERATIVE CARE FROM THIS SURGEON

These questions ask about your experiences with this surgeon and the surgeon's staff after your surgery.

33. Did this surgeon or this surgeon's staff explain what to expect during your recovery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if respondent attended to instructions preceding question 33.
Determine if "explain what to expect during your recovery" is consistently interpreted and if it is interpreted similarly to "how well prepared were you."
See if transition from Never - Always scale created any problems.*

INTERVIEWER: DID RESPONDENT READ OR SEEM TO NOTICE THE SENTENCE PRECEDING QUESTION 33?

YES NO DON'T KNOW

How did the surgeon or her/his staff explain what to expect to you?

How well did this help you prepare for your recovery?

34. Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if scale is appropriate (that is, should it be dichotomous?)
Determine how "warn you" is interpreted.*

IF NOT "DEFINITELY NO": How did they warn you about these signs or symptoms?

Would giving you some materials that listed warning signs or symptoms be the same as warning you about any signs or symptoms that require immediate care? Or would they have to spend some time talking about it with you?

Why?

IF SOMEWHAT YES, ASK DEFINITELY YES

IF SOMEWHAT NO, ASK DEFINITELY NO

IF DEFINITELY YES, ASK SOMEWHAT YES

IF DEFINITELY NO, ASK SOMEWHAT NO

Why did you pick [RESPONSE] instead of [ALTERNATE RESPONSE]?

35. Did this surgeon or this surgeon's staff give you easy to understand instructions about what to do during your recovery period?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

Goal: Determine whether instructions are being interpreted consistently (oral, written, or either.)

IF NOT DEFINITELY NO: Tell me about these instructions.

Do you think they're asking about verbal instructions, written instructions, both, or something else?

Why?

36. Were you aware of any medical mistakes in your treatment?

¹ Yes

² No → **If No, Go to Question 39**

Goal: Determine if "medical mistakes" is interpreted consistently.

What do you think they mean by "medical mistakes in your treatment?"

What would a big medical mistake be?

What would a small medical mistake be?

So, do you think they are asking about any medical mistake or only big medical mistakes? Or, are they asking something else?

Why?

37. Did these mistakes cause any significant problems for your treatment or condition?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is working properly.

Determine how "significant problems" is interpreted.

Did these mistakes cause ANY problems for your treatment or condition or not?

IF YES: Tell me about them.

Which of these problems, if any, were significant?

38. Did this surgeon explain how the mistake happened?

¹ Yes

² No

Goal: Determine if scale is appropriate or if respondents want to make finer distinctions.

IF YES: Tell me more. When did this happen?

What did this surgeon say -- or did another person explain?

How well did you understand the explanation?

IF NO: Why not? That is, why do you think that the surgeon didn't talk to you about this?

39. Did this surgeon make sure you were comfortable or had enough pain relief after you left the place where you had your surgery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if question is being interpreted as asking about adequacy of pain management post-release.

What do you think this question is asking, in your own words?

How did you figure out your answer to this question?

40. Did this surgeon explain the results of your surgery in a way that was easy to understand?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if there are legitimate reasons for the surgeon not doing this.

Why did you choose [RESPONSE] instead of [RESPONSE_{±1}]?

Did anyone besides the surgeon explain the results of your surgery to you?

IF YES: Tell me about these explanations.

And, whose explanations were your thinking about when you answered this question?

IF DEFINITELY NO: Why not?

41. After your surgery, did you phone this surgeon's office with a medical question?

¹ Yes

² No → **If No, Go to Question 43**

Goal: Determine if respondent contacted the surgeon's office with questions in any other way.

IF NO: Did you have any medical questions after your surgery?

IF YES: How did you try to get these questions answered? Or, did you try at all?

42. After your surgery, when you phoned this surgeon's office, how often did you get an answer to your medical questions as soon as you needed?

¹ Never

² Sometimes

³ Usually

⁴ Always

Goal: Determine how "as soon as you needed" differs from "as soon as you wanted."

Tell me about this. How did you get in touch with the surgeon's office?

What happened?

And, how long did it take to get an answer?

How quick did you need an answer?

In what ways, if any, is getting an answer as soon as you needed different from getting an answer as soon as you wanted?

43. After your surgery, how often did this surgeon listen carefully to you?

¹ Never

² Sometimes

³ Usually

⁴ Always

Goal: Determine if this scale is working properly.

Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

COMPARE WITH RESPONSE TO QUESTION 29. Do you think there was a difference in how carefully the surgeon listened to you after the surgery, compared to how carefully the surgeon listened before the surgery, or not?

*IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS,
PROBE: I'm a little confused Could you explain a little more?*

44. After your surgery, how often did this surgeon spend enough time with you?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if this scale is working properly.

How did you decide on your answer?

SHOW ALTERNATE VERSION. There are different ways of asking questions. I'd like you to answer this version of the question. Don't forget to think out loud as you're answering.

Which question did you prefer?

- Never - Always*
- Definitely Yes/No*
- No preference*

Why?

45. After your surgery, how often did this surgeon encourage you to ask questions?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if scale is appropriate.

Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

How did you come up with your answer?

COMPARE WITH RESPONSE TO QUESTION 31. Do you think there was a difference in how often the surgeon encouraged you to ask questions after the surgery, compared to before the surgery, or not?

*IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS,
PROBE: I'm a little confused Could you explain a little more?*

46. After your surgery, how often did this surgeon treat you with courtesy and respect?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if scale is appropriate.

Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

How did you come up with your answer?

COMPARE WITH RESPONSE TO QUESTION 32. Do you think there was a difference in how often the surgeon treated you with courtesy and respect after the surgery, compared to before the surgery, or not?

*IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS,
PROBE: I'm a little confused Could you explain a little more?*

47. After your surgery, how many office visits did you have with this surgeon?

¹ None

² 1 Visit

³ 2 Visits

⁴ 3 Visits

⁵ 4 to 6 Visits

⁶ 7 or more Visits

Goal: Determine respondent's ability to estimate the number of post-surgical visits

How did you figure this out?

How sure are you of your answer?

STAFF AT THIS SURGEON'S OFFICE

48. How often were clerks and receptionists at this surgeon's office as helpful as you thought they should be?

¹ Never

² Sometimes

³ Usually

⁴ Always

Goal: Determine criteria used to determine if clerks and receptionists are helpful.

Determine if scale is appropriate.

Determine how respondents define clerks and receptionists from other staff

What do you think they mean by "as helpful as you thought they should be?"

Who did you think of when you answered this?

IF NOT ALWAYS: So, how come you picked [RESPONSE]?

IF ALWAYS: Were they always like this to you or not?

49. How often were other staff at this surgeon's office as helpful as you thought they should be?

¹ Never

² Sometimes

³ Usually

⁴ Always

Goal: Determine if respondent distinguishes between clerks and receptionists and other staff.

Who were you thinking about when you answered this question?

And, how did you know that [PERSON(s)] were not clerks or receptionists?

50. How often did clerks and receptionists at this surgeon's office treat you with courtesy and respect?

¹ Never

² Sometimes

³ Usually

⁴ Always

Goal: Determine criteria respondents use to determine if clerks and receptionists treat them with courtesy and respect.

What can clerks and receptionists say or do that shows they are treating you with courtesy and respect? What else?

51. How often did other staff at this surgeon's office treat you with courtesy and respect?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always

Goal: Determine if respondent distinguished "other staff" from clerks and receptionists.

Who were you thinking about when you answered this? Which people at the surgeon's office?

YOUR OVERALL CARE FROM THIS SURGEON

These questions ask about your experiences with this surgeon and the surgeon's staff before, during, and after your surgery.

52. How often did this surgeon check to be sure you understood everything?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if respondent attended to instructions preceding question 52.

Determine if respondents are aware of whether and how a surgeon can check for comprehension.

Determine if scale is appropriate.

INTERVIEWER: DID RESPONDENT READ OR SEEM TO NOTICE THE SENTENCE PRECEDING QUESTION 52?

YES NO DON'T KNOW

What can a surgeon do or say to check to make sure that you understand everything?

IF NOT "USUALLY": If someone said "Usually" to this question, what would that mean?

How different would this be from "Sometimes?"

IF "USUALLY": If someone said "Sometimes" to this question, what would that mean?

How different would this be from "Usually?"

53. Do you feel this surgeon really cared about you as a person?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine criteria used in determining whether a surgeon really cares about you.
Determine if scale is working properly.*

*What can a surgeon say or do to show that she/he really cares about you as a person?
What else?*

Do you think a surgeon should care about you as a person or not? Why (not)?

IF NOT "SOMEWHAT YES": If someone said "Somewhat yes" to this question, what would that mean?

How different would this be from "Somewhat no?"

IF "SOMEWHAT YES": If someone said "Somewhat no" to this question, what would that mean?

How different would this be from "Somewhat yes?"

SHOW ALTERNATE VERSION. Once again, I'm going to show you another version of this question and ask you to answer it. Don't forget to think out loud as you're answering.

Which question did you prefer?

Never - Always

Definitely Yes/No

No preference

Why?

54. Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate this surgeon?

- 0 Worst surgeon possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best surgeon possible

Goal: Determine if respondent is using reasonable and appropriate criteria in making a judgment.

IF 8 OR LESS: What would this surgeon have to do to get a higher rating from you -- say, to get a 9?

IF 9 OR 10: What would make you lower your rating of this surgeon to an 8? That is, what could she/he do or say that would cause you to lower your rating?

IF NOT 5: And, what would a surgeon who gets a "5" be like?

55. Were the results of this surgery as good or better than you expected?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine surgeon's role in establishing expectations.

Determine how expectations are created and if they are "realistic."

What were your expectations for the results of this surgery?

What made you feel this way? That is, what did you read about -- and what did people tell you -- that made you feel this way?

And, what (else) did the surgeon say or do that made you expect these results?

ABOUT YOU

56. In general, how would you rate your overall health?

- 1 Excellent
- 2 Very good
- 3 Good
- 4 Fair
- 5 Poor

Goal: Determine the comparison group being used in making this judgment/

When you said [RESPONSE], who were you comparing yourself to? That is, what kinds of people were you comparing yourself to?

57. What is your age?

- 1 18 to 24 years
- 2 25 to 34
- 3 35 to 44
- 4 45 to 54
- 5 55 to 64
- 6 65 to 74
- 7 75 years or older

58. Are you male or female?

- 1 Male
- 2 Female

59. Not counting this surgery, about how many other surgeries have you had?

- None
- 1 surgery
- 2 surgeries
- 3 to 5 surgeries
- 6 to 9 surgeries
- 10 or more

Goal: Determine whether minor office and dental surgeries such as a wisdom tooth removal are being considered as surgeries.

IF NOT NONE: Tell me about them. What were they for?

Do you think they want you to count things like have a mole removed in the doctor's office as a surgery or not? Why (not)?

How about dental surgeries, such as having a wisdom tooth removed? Do you think they want you to count this or not? Why (not)?

60. What is the highest grade or level of school that you have completed?

- 8th grade or less
- Some high school, but did not graduate
- High school graduate or GED
- Some college or 2-year degree
- 4-year college graduate
- More than 4-year college degree

61. Are you of Hispanic or Latino origin or descent?

- ¹ Yes, Hispanic or Latino
- ² No, not Hispanic or Latino

62. What is your race? Please mark one or more.

- ¹ White
- ² Black or African American
- ³ Asian
- ⁴ Native Hawaiian or Other Pacific Islander
- ⁵ American Indian or Alaskan Native
- ⁶ Other

THANK YOU

Please return the completed survey in the postage-paid envelope.

1. Overall, what questions did you have problems with? Please elaborate.

2. Was there anything else that was unclear or confusing to you, or anything that sounded strange?

Yes ---> Please describe

No

Thanks very much for all of your help. Here's an envelope with your compensation. I need you to sign this receipt form.

Before you go, do you have any questions?

Thanks again. This has been very, very helpful for us.

ALTERNATE VERSION

13. Before your surgery, during your office visits, did this surgeon listen carefully to you?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

ALTERNATE VERSION

44. After your surgery, did this surgeon spend enough time with you?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

ALTERNATE VERSION

53. How often do you feel this surgeon really cared about you as a person?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Encuesta CAHPS[®] sobre cirujanos

**Cuestionario de atención de cirugía
para adultos**

Esta página se ha dejado en blanco intencionalmente

INSTRUCCIONES PARA EL CUESTIONARIO

- ◆ Conteste todas las preguntas marcando con una “x”, el cuadrado que aparece a la izquierda de la respuesta que usted elija: .

- ◆ A veces hay que saltarse alguna pregunta. Cuando esto ocurra, una flecha a la derecha de la respuesta le indicará a qué pregunta hay que pasar. Por ejemplo:
 - Sí → ***Si contestó “Sí”, pase a la pregunta 1 en la página 1***
 - No

SU CIRUJANO

1. **Cómo se llama el cirujano que le opero?**

CUIDADOS PREOPERATIVOS QUE RECIBIÓ DE ESTE CIRUJANO

Estas son preguntas sobre su experiencia con este cirujano y su personal antes del día de la cirugía.

2. **¿Su cirugía se programó tan pronto como usted lo necesitaba?**

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

3. **¿Este cirujano o su personal le dieron suficiente información sobre su cirugía antes de realizarla?**

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

4. **Antes de su cirugía, ¿el cirujano o su personal usaron diagramas, modelos, videos o algún otro material para explicarle las cosas?**

- ¹ Sí
- ² No

5. **¿Le dio este cirujano o su personal instrucciones fáciles de entender sobre como prepararse para su cirugía?**
- 1 Definitivamente sí
 - 2 Un poco, sí
 - 3 No mucho, no
 - 4 Definitivamente no
6. **Antes de su cirugía, ¿llamó por teléfono al consultorio de este cirujano para hacer una pregunta médica?**
- 1 Sí
 - 2 No → Si contestó “No,” pase a la pregunta 8
7. **Antes de su cirugía, cuando llamó por teléfono al consultorio de este cirujano, ¿con qué frecuencia le contestaron su pregunta médica tan pronto como lo necesitaba?**
- 1 Nunca
 - 2 A veces
 - 3 La mayoría de las veces
 - 4 Siempre
8. **Antes de su cirugía, ¿cuántas consultas tuvo con este cirujano?**
- 1 Ninguna → Si contestó “Ninguna,” pase a la pregunta 17
 - 2 1 consulta
 - 3 2 consultas
 - 4 3 consultas
 - 5 4 a 6 consultas
 - 6 7 o más consultas
9. **Durante las consultas previas a su cirugía, ¿hablo con usted este cirujano para enterarse de información importante sobre sus antecedentes médicos?**
- 1 Sí
 - 2 No

10. **Entre las opciones de tratamiento se pueden incluir cirugía, medicinas o algún otro tratamiento. Durante las consultas previas a su cirugía, ¿le dijo este cirujano que había más de una opción para su tratamiento?**
- ¹ Sí
- ² No → Si contestó “No,” pase a la pregunta 12
11. **Durante las consultas previas a su cirugía, cuando había más de una opción de tratamiento, ¿le preguntó este cirujano que opción creía usted que le convenía más?**
- ¹ Sí
- ² No
12. **Durante las consultas previas a su cirugía, ¿habló con usted este cirujano sobre los riesgos y beneficios de cada opción de tratamiento?**
- ¹ Sí
- ² No
13. **Durante las consultas previas a su cirugía, ¿con qué frecuencia le escuchó con atención este cirujano?**
- ¹ Nunca
- ² A veces
- ³ La mayoría de las veces
- ⁴ Siempre
14. **Durante las consultas previas a su cirugía, ¿con qué frecuencia este cirujano paso suficiente tiempo con usted?**
- ¹ Nunca
- ² A veces
- ³ La mayoría de las veces
- ⁴ Siempre

15. Durante las consultas previas a su cirugía, ¿con qué frecuencia el cirujano le animó a hacer preguntas?

- 1 Nunca
- 2 A veces
- 3 La mayoría de las veces
- 4 Siempre

16. Durante las consultas previas a su cirugía, ¿con qué frecuencia este cirujano le trató con cortesía y respeto?

- 1 Nunca
- 2 A veces
- 3 La mayoría de las veces
- 4 Siempre

SU CIRUGÍA

Estas son preguntas sobre su experiencia con este cirujano y su personal el día de la cirugía.

17. Después de llegar al hospital o al centro de cirugía, ¿le vio este cirujano antes de la cirugía?

- 1 Sí
- 2 No → Si contestó “No,” pase a la pregunta 19

18. ¿Esta visita le hizo sentir menos angustia?

- 1 Definitivamente sí
- 2 Un poco, sí
- 3 No mucho, no
- 4 Definitivamente no

19. Después de ingresar al hospital o al centro de cirugía, ¿hubo alguna demora larga antes de que su cirugía comenzara?

- 1 Sí
- 2 No → Si contestó “No,” pase a la pregunta 21

20. ¿Le mantuvieron informado sobre cuánto tendría que esperar hasta que su cirugía comenzara?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

21. ¿Estuvo algún familiar o amigo en el edificio durante su cirugía?

- ¹ Sí
- ² No → Si contestó “No,” pase a la pregunta 23

22. Inmediatamente después de que terminara la cirugía ¿este cirujano o un miembro del equipo de cirugía habló con sus familiares o amigos sobre su cirugía?

- ¹ Sí
- ² No
- ³ No sé

23. Antes de que saliera del hospital o del centro de cirugía, ¿este cirujano le fue a ver y habló con usted sobre el resultado de su cirugía?

- ¹ Sí
- ² No → Si contestó “No,” pase a la pregunta 25

24. ¿Esta visita fue durante las primeras 24 horas después de su cirugía?

- ¹ Sí
- ² No

SERVICIOS DE ANESTESIOLOGÍA

25. ¿Le dieron algo para que no sintiera dolor durante la cirugía?

- ¹ Sí
- ² No → Si contestó “No,” pase a la pregunta 33

26. ¿Quién hizo esto, un anestesiólogo o este cirujano?

- ¹ Un anestesiólogo lo hizo
- ² Este cirujano lo hizo → Si “Este cirujano lo hizo,” pase a la pregunta 33
- ³ No sé → Si “No sabe,” pase a la pregunta 33

27. ¿Este anestesiólogo le animó a hacer preguntas?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

28. ¿Le hizo usted alguna pregunta al anestesiólogo?

- ¹ Sí
- ² No → Si contestó “No,” pase a la pregunta 30

29. ¿Este anestesiólogo respondió sus preguntas con claridad?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

30. Después de llegar al hospital o al centro de cirugía, ¿le vio este anestesiólogo antes de su cirugía?

- ¹ Sí
- ² No → Si contestó “No,” pase a la pregunta 33

31. ¿Esta visita le hizo sentirse más tranquilo y relajado antes de su cirugía?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

32. Usando un número del 0 al 10, el 0 siendo el peor anestesiólogo posible y el 10 el mejor anestesiólogo posible, ¿qué número usaría para calificar a éste anestesiólogo?

- 0 El peor anestesiólogo posible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 El mejor anestesiólogo posible

CUIDADOS POSTOPERATIVOS QUE RECIBIÓ DE ESTE CIRUJANO

Estas preguntas son sobre su experiencia con este cirujano y su personal después de la cirugía.

33. ¿Este cirujano o su personal le explicaron qué debía esperar durante su recuperación?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

34. ¿Este cirujano o su personal le advirtieron sobre qué signos o síntomas requerirían atención médica inmediata durante su recuperación?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

35. ¿Le dio este cirujano o su personal instrucciones fáciles de entender sobre que hacer durante su recuperación?

- 1 Definitivamente sí
- 2 Un poco, sí
- 3 No mucho, no
- 4 Definitivamente no

36. ¿Se dio cuenta de si hubo algún error médico en su tratamiento?

- 1 Sí
- 2 No → Si contestó “No,” pase a la pregunta 39

37. ¿Estos errores le causaron algún problema significativo respecto al tratamiento o su problema de salud?

- 1 Definitivamente sí
- 2 Un poco, sí
- 3 No mucho, no
- 4 Definitivamente no

38. ¿Este cirujano le explicó cómo ocurrió el error?

- 1 Sí
- 2 No

39. ¿Este cirujano se aseguró de que usted se sintiera cómodo o tuviera un alivio adecuado del dolor después de salir del lugar donde tuvo la cirugía?

- 1 Definitivamente sí
- 2 Un poco, sí
- 3 No mucho, no
- 4 Definitivamente no

- 40. ¿Este cirujano le explicó los resultados de su cirugía de una manera fácil de entender para usted?**
- ¹ Definitivamente sí
 - ² Un poco, sí
 - ³ No mucho, no
 - ⁴ Definitivamente no
- 41. Después de su cirugía, ¿llamó por teléfono al consultorio de este cirujano para hacer alguna pregunta médica?**
- ¹ Sí
 - ² No → Si contestó “No,” pase a la pregunta 43
- 42. Después de su cirugía, cuando llamó por teléfono al consultorio de este cirujano, ¿con qué frecuencia le contestaron su pregunta médica tan pronto como lo necesitaba?**
- ¹ Nunca
 - ² A veces
 - ³ La mayoría de las veces
 - ⁴ Siempre
- 43. Después de su cirugía, ¿con qué frecuencia le escuchó con atención este cirujano?**
- ¹ Nunca
 - ² A veces
 - ³ La mayoría de las veces
 - ⁴ Siempre
- 44. Después de su cirugía, ¿con qué frecuencia este cirujano pasó suficiente tiempo con usted?**
- ¹ Nunca
 - ² A veces
 - ³ La mayoría de las veces
 - ⁴ Siempre

45. Después de su cirugía, ¿con qué frecuencia este cirujano le animó a hacer preguntas?

- ¹ Nunca
- ² A veces
- ³ La mayoría de las veces
- ⁴ Siempre

46. Después de su cirugía, ¿con qué frecuencia este cirujano le trató con cortesía y respeto?

- ¹ Nunca
- ² A veces
- ³ La mayoría de las veces
- ⁴ Siempre

47. Después de su cirugía, ¿cuántas consultas tuvo con este cirujano?

- ¹ Ninguna
- ² 1 consulta
- ³ 2 consultas
- ⁴ 3 consultas
- ⁵ 4 a 6 consultas
- ⁶ 7 o más consultas

EL PERSONAL DEL CONSULTORIO DE ESTE CIRUJANO

48. ¿Con qué frecuencia los oficinistas y recepcionistas del consultorio de este cirujano le dieron toda la ayuda que usted creía que debían darle?

- ¹ Nunca
- ² A veces
- ³ La mayoría de las veces
- ⁴ Siempre

49. ¿Con qué frecuencia otros miembros del personal del consultorio de este cirujano le dieron toda la ayuda que usted creía que debían darle?

- 1 Nunca
- 2 A veces
- 3 La mayoría de las veces
- 4 Siempre

50. ¿Con qué frecuencia los oficinistas y recepcionistas del consultorio de este cirujano le trataron con cortesía y respeto?

- 1 Nunca
- 2 A veces
- 3 La mayoría de las veces
- 4 Siempre

51. ¿Con qué frecuencia otros miembros del personal del consultorio de este cirujano le trataron con cortesía y respeto?

- 1 Nunca
- 2 A veces
- 3 La mayoría de las veces
- 4 Siempre

ATENCIÓN GENERAL QUE RECIBIÓ DE ESTE CIRUJANO
--

Estas preguntas se refieren a sus experiencias con este cirujano y su personal antes, durante y después de la cirugía.

52. ¿Con qué frecuencia este cirujano comprobó que usted entendiera todo?

- 1 Nunca
- 2 A veces
- 3 La mayoría de las veces
- 4 Siempre

53. ¿Siente que este cirujano realmente se preocupó por usted como persona?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

54. Usando un número del 0 al 10, el 0 siendo el peor cirujano posible y el 10 el mejor cirujano posible, ¿qué número usaría para calificar a éste cirujano?

0 El peor cirujano posible

1

2

3

4

5

6

7

8

9

10 El mejor cirujano posible

55. ¿Los resultados de esta cirugía fueron tan buenos como lo esperaba o mejores?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

SOBRE USTED

56. En general, ¿cómo calificaría toda su salud?

- ¹ Excelente
- ² Muy buena
- ³ Buena
- ⁴ Regular
- ⁵ Mala

57. ¿Qué edad tiene?

- ¹ 18 a 24 años
- ² 25 a 34
- ³ 35 a 44
- ⁴ 45 a 54
- ⁵ 55 a 64
- ⁶ 65 a 74
- ⁷ 75 años o más

58. ¿Es usted hombre o mujer?

- ¹ Hombre
- ² Mujer

59. Sin contar esta cirugía, ¿aproximadamente cuántas cirugías más ha tenido?

- ¹ Ninguna
- ² 1 cirugía
- ³ 2 cirugías
- ⁴ 3 a 5 cirugías
- ⁵ 6 a 9 cirugías
- ⁶ 10 o más cirugías

60. ¿Cuál es el grado o nivel escolar más alto que ha completado?

- 1 8 años de escuela o menos
- 2 9 a 12 años de escuela, pero sin graduarse
- 3 Graduado de la escuela secundaria (*high school*), Diploma de escuela secundaria, preparatoria, o su equivalente (o GED)
- 4 Algunos cursos universitarios o un título universitario de un programa de 2 años
- 5 Título universitario de 4 años
- 6 Título universitario de más de 4 años

61. ¿Es usted de origen o ascendencia hispana o latina?

- 1 Sí, hispano o latino
- 2 No, ni hispano ni latino

62. ¿A qué raza pertenece? Por favor marque una o más.

- 1 Blanca
- 2 Negra o afroamericana
- 3 Asiática
- 4 Nativa de Hawai o de otras islas del Pacífico
- 5 Indígena americana o nativa de Alaska
- 6 Otra

GRACIAS

Quando haya completado el cuestionario, por favor devuélvalo en el sobre con porte o franqueo pagado.

Encuesta CAHPS[®] sobre cirujanos
Cuestionario de atención de cirugía
para adultos

[Spanish Version 1B]

Cognitive Testing Protocol 1B

Introducción

Como le mencioné, antes de diseminar estas encuestas a la población, preferimos que unas personas las contesten para que encontremos problemas y puntos de confusión. Para lograr esto, pedimos que usted conteste las preguntas y también que nos diga en voz alta lo que está pensando cuando contesta cada pregunta.

Como pensar en voz alta no es una práctica común, le daré un ejemplo de que quiero decir.
[Model the behavior]

1. Uso de teléfono la semana pasada.

Suponga que alguien me pregunte, “**¿Cuántas horas habló por teléfono durante la semana pasada?**” [MUESTRE EL PAPELITO AL PARTICIPANTE.]

Yo diría:

Primero, necesito pensar en cuántas horas uso el teléfono en mi casa. A ver, les llamo a mi mamá y papá una vez a la semana y hablamos 1 hora. También hablo con amigos...por probablemente 2 horas cada semana. Sin embargo, la semana pasada fue el cumpleaños de una amiga y planeamos una fiesta para ella.

Entonces, es probable que en vez de 2 pasara como cuatro horas hablando con amigos la semana pasada. También uso el teléfono para el Internet y correo electrónico, pero no pienso que sea “hablar” por teléfono, así que no voy a contar esas horas. OK, son 5 total en la casa.

En mi trabajo, paso mucho tiempo hablando por teléfono; yo diría más o menos 2 horas cada día. También estuve por teléfono en una conferencia, pero no hablé, solamente les escuché a los presentadores. Entonces, son 10 horas total en el trabajo, 5 en casa.

[Add up the numbers and present the answer]

Probablemente pasé 15 horas por teléfono la semana pasada.

[Pide que el participante haga lo mismo con la pregunta en el papelito.]

***If the participant doesn't seem to "get it," hand them the second question, "How many windows are in your home?" and ask them to answer it.*

¿Tiene alguna pregunta?

Bueno, comencemos. Conteste las preguntas como haría si usted recibió esta encuesta por correo y yo no estaba aquí. Recuerde pensar en voz alta cuando lee y contesta las preguntas para que yo sepa que está pensando. A veces le preguntaré unas cosas para comprender o clarificar lo que piensa de una pregunta.

2. Número de ventanas en su casa.

Le daré otro ejemplo de que quiero decir. Suponga que alguien me pregunte, “¿**Cuántas ventanas tiene la casa o apartamento en el cual usted vive?**” [MUESTRE EL PAPELITO AL PARTICIPANTE.]

[Model the behavior] Yo diría:

Bueno, para mí es más fácil pensar en cuántas ventanas hay en cada cuarto. Mi casa tiene cinco cuartos—una cocina, un baño, dos dormitorios, y una salón. En mi dormitorio, hay tres—dos que están en una pared y una pequeña en la otra pared. En el otro dormitorio hay dos más. Se puede contarlas como una sola, porque están juntas, pero yo prefiero pensar que son dos ventanas separadas.

En el salón hay una grande, pero es una puerta de vidrio, entonces no sé si califica como “ventana.” Yo pienso que sería mejor contarla como una puerta. En el baño hay una pequeña, y no hay ventanas en la cocina.

[Add up the numbers and present the answer]

Entonces, voy a decir que la casa tiene 6—3 en un dormitorio, 2 en el segundo dormitorio, y una en el baño.

[Pide que el participante haga lo mismo con la pregunta en el papelito.]

¿Tiene alguna pregunta?

Bueno, comencemos. Conteste las preguntas como haría si usted recibió esta encuesta por correo y yo no estaba aquí. Recuerde pensar en voz alta cuando lee y contesta las preguntas para que yo sepa que está pensando. A veces le preguntaré unas cosas para comprender o clarificar lo que piensa de una pregunta.

SU CIRUJANO

1. **Cómo se llama el cirujano que le opero?**

CUIDADOS PREOPERATIVOS QUE RECIBÍ DE ESTE CIRUJANO

Estas son preguntas sobre su experiencia con este cirujano y su personal antes del día de la cirugía.

2. ¿Su cirugía se programó tan pronto como usted lo necesitaba?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if respondent notices introductory sentence.
- Determine if respondents are using "reasonable" criteria for determining their need for the surgery to be scheduled when it was scheduled.

INTERVIEWER: DID RESPONDENT READ OR SEEM TO NOTICE THE SENTENCE PRECEDING QUESTION 18?

YES NO DON'T KNOW

¿Por qué dijo [RESPONSE] en vez de [RESPONSE+1]?

¿Cuándo se programó la cirugía? ¿Recuerda la fecha en que se programó?

¿Fue tan pronto como usted quería o no?

****PROBE:** Cuidados Preoperativos

¿Qué significa para usted “cuidados preoperativos?” ¿Puede darme algunos ejemplos?

3. ¿Este cirujano o su personal le dieron suficiente información sobre su cirugía antes de realizarla?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine how respondents who don't want information answer this question.

¿Aproximadamente cuánta información quería usted acerca de su cirugía?

¿Cree que obtuvo esa cantidad de información o no?

IF INCONSISTENT WITH THEIR RESPONSE TO Q.19, SAY: Entonces, ¿puede explicarme un poco más por qué dijo [RESPONSE TO Q. 19]?

***PROBE: realizarla*

¿Qué significa para usted “realizar” una cirugía?

¿Alguna gente dice “hacer una cirugía,” significa lo mismo que “realizarla?”

¿Qué frase usa usted más frecuentemente: “realizar” una cirugía o “hacer” una cirugía?

4. Antes de su cirugía, ¿el cirujano o su personal usaron diagramas, modelos, videos o algún otro material para explicarle las cosas?

¹ Sí

² No

Goal:

- Determine if there are appropriate reasons for a negative response.

IF YES: ¿Cómo lo hicieron?

IF NO: ¿Por qué no?

¿Usted quería que le explicaran las cosas o no?

5. ¿Le dio este cirujano o su personal instrucciones fáciles de entender sobre como prepararse para su cirugía?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

Goal:

- Determine if 'getting ready for surgery' is interpreted consistently.
- Determine if scale is working as intended.

¿Qué cree que quieren decir con “instrucciones sobre cómo prepararse para la cirugía”? Puede darme ejemplos de estas instrucciones?

¿Por qué eligió [RESPONSE] en vez de [RESPONSE±1]?

6. **Antes de la cirugía, ¿llamó por teléfono al consultorio de este cirujano para hacer una pregunta médica?**

¹ Sí

² No → **Si contestó “No,” pase a la pregunta 8**

Goal:

- Determine if 'medical question' is interpreted as intended.

¿Qué cree que quieren decir con “pregunta de tipo médico”? ¿Puede darme ejemplos?

IF YES: ¿Qué preguntas de tipo médico tenía cuando llamó?

7. **Antes de la cirugía, cuando llamó por teléfono al consultorio de este cirujano, ¿con qué frecuencia le contestaron su pregunta médica tan pronto como lo necesitaba?**

- ¹ Nunca
² A veces
³ La mayoría de las veces
⁴ Siempre

Goal:

- Determine if scale is appropriate for this question.
- Determine how respondent makes judgment about whether the answer was "as soon as needed."

¿Qué cree que quieren decir con "tan pronto como usted lo necesitaba"?

¿Aproximadamente cuántas veces llamó para hacer preguntas de tipo médico?

¿Y aproximadamente cuántas veces obtuvo respuestas tan pronto como las necesitaba?

IF RESPONSES APPEAR INCONSISTENT WITH ANSWER TO Q.23, PROBE TO DETERMINE REASON FOR DISCREPANCY.

8. Antes de la cirugía, ¿cuántas consultas tuvo con este cirujano?

- ¹ Ninguna → **Si contestó “Ninguna,” pase a la pregunta 17**
- ² 1 consulta
- ³ 2 consultas
- ⁴ 3 consultas
- ⁵ 4 o 6 consultas
- ⁶ 7 o más consultas

Goal:

- Determine if all visits are being included or just visits related to this surgery.

¿Cree usted que están preguntando sobre todas las consultas que una persona ha tenido en total con su cirujano o sólo sobre las consultas relacionadas con esta cirugía en particular?

¿Por qué?

9. Durante las consultas previas a su cirugía, ¿hablo con usted este cirujano para enterarse de información importante sobre sus antecedentes médicos?

¹ Sí

² No

Goal:

- Determine if "important things in your medical history" is being interpreted consistently and properly.
- Determine if discussions with the surgeon's staff are being included.
- Determine if there are appropriate reasons for these discussions to NOT have been conducted.

¿Qué cree que quieren decir con “cosas importantes en su historia clínica”? ¿Puede darme ejemplos de "cosas importantes" en la historia clínica de una persona?

IF YES: Cuénteme más acerca de la charla que este cirujano tuvo con usted para averiguar cosas importantes de su historia clínica. ¿De qué cosas hablaron?

¿Quién hizo esto, el cirujano, su personal o ambos?

IF NO: ¿Por qué no?

10. Entre las opciones de tratamiento se pueden incluir cirugía, medicinas o algún otro tratamiento. Durante las consultas previas a su cirugía, ¿le dijo este cirujano que había más de una opción para su tratamiento?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 12

Goal:

- Determine if "choices" are interpreted to mean medical choices.

IF YES: Cuénteme acerca de las opciones de que hablaron.

¿Se refiere esta pregunta a la opción de hacerse o no hacerse la cirugía, o se refiere a otra cosa? IF SOMETHING ELSE: ¿Qué otra cosa?

11. Durante las consultas previas a su cirugía, cuando había más de una opción de tratamiento, ¿le preguntó este cirujano que opción creía usted que le convenía más?

¹ Sí

² No

Goal:

- Determine if respondents are interpreting this item literally (i.e., the surgeon asking "Which choice do you think is best for you?").

IF NO: ¿Por qué cree usted que el cirujano no le preguntó qué opción creía usted que le convenía más?

¿Cómo sabía el cirujano qué opción prefería usted?

IF YES: ¿Cómo hizo esto el cirujano? ¿Cómo averiguó el cirujano cuál opción creía usted que le convenía más?

12. Durante las consultas previas a su cirugía, ¿habló con usted este cirujano sobre los riesgos y beneficios de cada opción de tratamiento?

¹ Sí

² No

Goal:

- Determine if "risks and benefits" is interpreted correctly.
- Determine if talks with staff are being included.

IF YES: Hábleme de esto. ¿De qué hablaron?

¿Tuvo estas conversaciones con el cirujano, con su personal o con ambos?

IF NO: ¿Por qué no?

¿Qué cree que quieren decir con “riesgos y beneficios de sus opciones de tratamiento”? Deme (otros) ejemplos de esto.

13. Durante las consultas previas a su cirugía, ¿con qué frecuencia le escuchó con atención este cirujano?

- ¹ Nunca
² A veces
³ La mayoría de las veces
⁴ Siempre

Goal:

- Determine if this scale is working properly.
- Determine if respondents can make appropriate judgments about the surgeon's attentiveness.

¿Qué cree que quieren decir con “escucharlo con atención”? Es decir, ¿qué dijo o hizo el cirujano que indicara que le estaba escuchando con atención?

¿Por qué eligió [RESPONSE] en vez de [RESPONSE₊₁]?

SHOW ALTERNATE VERSION. Hay diferentes maneras de hacer preguntas. Me gustaría que respondiera esta pregunta de la forma en que está hecha. No olvide pensar en voz alta al responder la pregunta.

¿Qué pregunta prefirió?

- Nunca/ siempre*
Definitivamente sí/no
Me es indiferente

¿Por qué?

14. Durante las consultas previas a su cirugía, ¿con qué frecuencia este cirujano paso suficiente tiempo con usted?

- ¹ Nunca
² A veces
³ La mayoría de las veces
⁴ Siempre

Goal:

- Determine if this scale is working properly.
- Determine if respondents can make appropriate judgments about spending enough time.

¿Qué cree que quieren decir con “pasar suficiente tiempo con usted”?

Entonces, ¿aproximadamente cuántas consultas me dijo que tuvo antes de la cirugía?

¿Y en cuántas de estas consultas el cirujano pasó suficiente tiempo con usted?

IF RESPONSE IS INCONSISTENT, PROBE TO DETERMINE REASON FOR INCONSISTENCY.

15. Durante las consultas previas a su cirugía, ¿con qué frecuencia el cirujano le animó a hacer preguntas?

- ¹ Nunca
² A veces
³ La mayoría de las veces
⁴ Siempre

Goal:

- Determine if this scale is appropriate.
- Determine if respondents can make appropriate judgments about whether the surgeon encouraged questions.

¿Qué cree que quieren decir con “animarlo a hacer preguntas”? Es decir, ¿qué puede decir o hacer un cirujano para animarlo a hacer preguntas?

¿Por qué eligió [RESPONSE] en vez de [RESPONSE+1]?

16. Durante las consultas previas a su cirugía, ¿con qué frecuencia este cirujano le trató con cortesía y respeto?

- ¹ Nunca
² A veces
³ La mayoría de las veces
⁴ Siempre

Goal:

- Determine if this scale is working properly.
- Determine if respondents can make appropriate judgments about courtesy and respect.

¿Qué hizo o dijo el cirujano que le hiciera sentir que lo estaba tratando con cortesía y respeto durante estas consultas?

¿En qué se diferenciaría de su cirujano un cirujano que [USUALLY/SOMETIMES] trata a sus pacientes con cortesía y respeto?

SU CIRUGÍA

Estas son preguntas sobre su experiencia con este cirujano y su personal el día de la cirugía.

17. Después de llegar al hospital o al centro de cirugía, ¿le vio este cirujano antes de la cirugía?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 19

Goal:

- Determine if respondent reads the introductory sentence.
- Determine how the respondent interprets "visit."
- See if patients who had in-office surgery have problems answering this item.

INTERVIEWER: DID RESPONDENT READ OR SEEM TO NOTICE THE SENTENCE PRECEDING QUESTION 2?

YES

NO

DON'T KNOW

IF NO TO Q.2: ¿Cuándo vio al cirujano por primera vez el día de la cirugía? Hábleme un poco de eso.

¿Eso era lo que usted esperaba o no? ¿Por qué?

¿Vio a alguien del personal del cirujano o del equipo el día de su cirugía, antes del procedimiento? IF YES: ¿A quién?

**** PROBE:** *centro de cirugía*

¿Qué cree que quieren decir con “centro de cirugía?” ¿Puede darme un ejemplo de un “centro de cirugía?”

18. ¿Esta visita le hizo sentir menos angustia?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if scale is appropriate
- Determine how the respondent interprets "visit."

Cuénteme más sobre esta visita.

¿Dónde estaba usted cuando el cirujano le visitó?

¿Cuándo fue esto?

Entonces, ¿por qué eligió [RESPONSE] en vez de [RESPONSE±1]?

****PROBE: angustia**

¿Qué cree que quieren decir con la palabra “angustia”?

¿Cree que angustia quiere decir lo mismo que ansiedad?

¿Cree que angustia quiere decir lo mismo que estar nervioso(a)?

¿Qué palabra usa usted más frecuentemente: angustia, ansiedad, o nervioso(a) cuando se trata de la manera que se sienten la mayoría de las personas antes de una cirugía?

19. Después de ingresar al hospital o al centro de cirugía, ¿hubo alguna demora larga antes de que su cirugía comenzara?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 21

Goal:

- Determine if "long delays" is consistently interpreted.

¿Aproximadamente cuánto tiempo tuvo que esperar después de ingresar para que comenzara la cirugía?

¿Y qué cree que quieren decir con “demora larga”? Es decir, ¿qué tan larga es una “demora larga”?

***PROBE: demora larga*

¿Qué significa para usted una “demora larga?”

¿Alguna gente dice un “retraso largo,” significa lo mismo que “demora larga?”

¿Qué frase usa usted más frecuentemente: hubo una “demora larga” o hubo un “retraso largo?”

20. ¿Le mantuvieron informado sobre cuánto tendría que esperar hasta que su cirugía comenzara?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

Goal:

- Determine if scale is appropriate

IF NOT "DEFINITELY NO": Cuénteme. Es decir, ¿quiénes le mantuvieron informadoa?

¿Con qué frecuencia le dijeron?

¿Por qué eligió [RESPONSE] en vez de [RESPONSE+1]?

21. ¿Estuvo algún familiar o amigo en el edificio durante su cirugía?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 23

Goal:

- Determine if 'in the building' is interpreted correctly.

¿Qué cree que quieren decir con “en el edificio”?

IF NO: ¿Quería tener amigos o familiares cerca durante la cirugía?

IF YES: ¿Cuánto tiempo estuvieron ellos en el edificio?

22. Inmediatamente después de que terminara la cirugía ¿este cirujano o un miembro del equipo de cirugía habló con sus familiares o amigos sobre su cirugía?

¹ Sí

² No

³ No sé

Goal:

- See if there were any confidentiality problems related to HIPAA.
- Determine how people who do not want this information shared respond to the question.

IF YES: Cuénteme más sobre esto. ¿Quién les habló sobre la cirugía? ¿Qué dijeron?

¿Usted quería que ellos hablaran de la cirugía con sus familiares o amigos, o no?

IF NO OR DON'T KNOW: ¿Usted quería que ellos hablaran de la cirugía con sus familiares o amigos, o no? ¿Por qué (no)?

23. Antes de que saliera del hospital o del centro de cirugía, ¿este cirujano le fue a ver y habló con usted sobre el resultado de su cirugía?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 25

Goal:

- Determine if respondent is aware of visit.
- Determine if 'outcome of surgery' is interpreted as intended.
- Determine how people who did not stay overnight answer this question.

¿Qué cree que quieren decir con “hablar sobre el resultado de la cirugía”?

IF YES: Cuénteme sobre esta visita o visitas.

IF NO: ¿Alguien del personal del cirujano le visitó para hablar del resultado de la cirugía antes de que usted se fuera del centro de cirugía?

Sí --> Cuénteme sobre esta visita.

No --> ¿Por qué no?

¿Aproximadamente cuánto tiempo permaneció en el centro de cirugía?

24. ¿Esta visita fue durante las primeras 24 horas después de su cirugía?

¹ Sí

² No

Goal:

- Determine if heavily sedated patients can answer this question.

IF YES: ¿Qué pasó durante esta visita?

IF NO: ¿Qué tanta certeza tiene de que el cirujano no trató de visitarlo durante este tiempo?

SERVICIOS DE ANESTESIOLOGÍA

****PROBE:** *Servicios de Anestesiología*

¿Qué significa para usted “Servicios de Anestesiología?”

¿Alguna gente dice usa solo la palabra “Anestesiología” significa lo mismo que “Servicios de Anestesiología?”

¿Qué frase usa usted más frecuentemente: “Anestesiología” o “Servicios de Anestesiología?”

25. ¿Le dieron algo para que no sintiera dolor durante la cirugía?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 33

Goal:

- Determine if anesthesia is interpreted as intended.

IF NO: ¿Le dieron algo para dormirlo durante la cirugía o no?

Sí ☐--> Y esto es diferente de que le dieran algo para que no sintiera dolor porque....

No ☐--> ¿Por qué no?

26. ¿Quién hizo esto, un anesthesiólogo o este cirujano?

- ¹ Un anesthesiólogo lo hizo
- ² Este cirujano lo hizo → Si “Este cirujano lo hizo,” pase a la pregunta 33
- ³ No sé → Si “No sabe,” pase a la pregunta 33

Goal:

- Determine if respondent is capable of determining who provided anesthesiology

IF ANESTHESIOLOGIST OR SURGEON: ¿Cómo lo sabe?

IF DON'T KNOW: Si tuviera que adivinar, ¿cómo respondería esta pregunta?

27. ¿Este anesthesiólogo le animó a hacer preguntas?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if respondent is using reasonable criteria in deciding whether or not the anesthesiologist encouraged questioning.
- Determine how respondents who do not want to ask questions answer this item.

IF DEFINITELY/SOMEWHAT YES: ¿Cómo le animó el anesthesiólogo? Es decir, ¿qué hizo o dijo el anesthesiólogo que indicara que quería que usted le hiciera preguntas?

IF DEFINITELY/SOMEWHAT NO: ¿Qué hizo o dijo el anesthesiólogo que indicara que NO quería que usted le hiciera preguntas?

****PROBE: Response Scale**

¿Por qué escogió [RESPONSE] en vez de [RESPONSE±1]?

IF DEFINITIVAMENTE SÍ: ¿Qué tendría que hacer el anesthesiologo para que usted contestara “Un poco, si?”

IF UN POCO, SÍ: ¿Qué tendría que hacer el anesthesiologo para que usted contestara “No mucho, no?”

IF NO MUCHO, NO: ¿Qué tendría que hacer el anesthesiologo para que usted contestara “Definitivamente no?”

IF DEFINITIVAMENTE NO: ¿Qué tendría que hacer el anesthesiologo para que usted contestara “Definitivamente si?”

28. ¿Le hizo usted alguna pregunta al anesthesiólogo?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 30

Goal:

- Verify that "questions" are being interpreted to mean "medical questions."

IF YES: ¿Qué le preguntó?

IF NO: ¿Por qué no?

¿Qué cree que quieren decir con “alguna pregunta”? Es decir, ¿les interesan solamente las preguntas sobre anestesiología o les interesan otros tipos de preguntas. IF OTHER: ¿Qué tipos de preguntas?

29. ¿Este anesthesiólogo respondió sus preguntas con claridad?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

Goal:

- Determine if scale is appropriate.

¿Por qué dijo [RESPONSE] en vez de [RESPONSE±1]?

30. Después de llegar al hospital o al centro de cirugía, ¿le vio este anesthesiólogo antes de su cirugía?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 33

Goal:

- Confirm that respondent is not reporting other visits with the anesthesiologist.

IF YES: Hábleme sobre esta visita.

¿Qué pasó?

¿Cuánto duró?

¿Qué hizo o dijo el anesthesiólogo?

IF NO: ¿Vio a este anesthesiólogo alguna vez antes de la cirugía o no?

IF NO: ¿Vio a alguna persona para hablar acerca de anestesiología antes de la cirugía?

31. ¿Esta visita le hizo sentirse más tranquilo y relajado antes de su cirugía?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if scale is working properly.

¿Qué tan tranquilo y relajado estaba usted antes de esta visita?

Y, ¿qué tan tranquilo y relajado estaba después de esta visita?

IF RESPONSES TO PROBE ARE INCONSISTENT WITH RESPONSE TO ITEM, SAY: Estoy un poco confundido. Usted dijo [RESPONSE TO Q.16], que la visita le hizo sentirse más tranquilo y relajado. Y dijo que antes de esta visita se sintió [RESPONSE TO FIRST PROBE]. Y que después de esta visita se sintió [RESPONSE TO SECOND PROBE]. ¿Puede explicarme un poco más?

32. Usando un número del 0 al 10, el 0 siendo el peor anestesiólogo posible y el 10 el mejor anestesiólogo posible, ¿qué número usaría para calificar a éste anestesiólogo?

- 0 El peor anestesiólogo posible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 El mejor anestesiólogo posible

Goal:

- Determine if scale is appropriate and that respondent is using reasonable criteria for making a judgment.

¿Cómo llegó a esta conclusión? ¿En qué estaba pensando?

IF NOT '3': ¿Cómo sería un anestesiólogo que recibiera una calificación de 3?

IF NOT '7': ¿Y uno que recibiera una calificación de 7? ¿Qué diría o haría un anestesiólogo como ese?

CUIDADOS POSTOPERATIVOS QUE RECIBIÓ DE ESTE CIRUJANO

Estas preguntas son sobre su experiencia con este cirujano y su personal después de la cirugía.

33. ¿Este cirujano o su personal le explicaron qué debía esperar durante su recuperación?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if respondent attended to instructions preceding question 33.
- Determine if "explain what to expect during your recovery" is consistently interpreted and if it is interpreted similarly to "how well prepared were you."
- See if transition from Never - Always scale created any problems.

INTERVIEWER: DID RESPONDENT READ OR SEEM TO NOTICE THE SENTENCE PRECEDING QUESTION 33?

YES NO DON'T KNOW

¿Cómo le explicaron el cirujano o su personal qué debía esperar?

¿Qué tanto le sirvió esto para prepararse para su recuperación?

****PROBE:** *Cuidados Postoperativos*

¿Qué significa para usted "cuidados postoperativos?" ¿Puede darme algunos ejemplos?

34. ¿Este cirujano o su personal le advirtieron sobre qué signos o síntomas requerirían atención médica inmediata durante su recuperación?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if scale is appropriate (that is, should it be dichotomous?)
- Determine how "warn you" is interpreted.

IF NOT "DEFINITELY NO": ¿Cómo le advirtieron sobre estos signos o síntomas?

¿Darle materiales en los que se enumeren signos o síntomas de alerta sería lo mismo que advertirle sobre los signos y síntomas que requieren atención inmediata? ¿O tendrían que pasar un tiempo hablando de esto con usted?

¿Por qué?

IF SOMEWHAT YES, ASK DEFINITELY YES

IF SOMEWHAT NO, ASK DEFINITELY NO

IF DEFINITELY YES, ASK SOMEWHAT YES

IF DEFINITELY NO, ASK SOMEWHAT NO

¿Por qué eligió [RESPONSE] en vez de [ALTERNATE RESPONSE]?

35. ¿Le dio este cirujano o su personal instrucciones fáciles de entender sobre que hacer durante su recuperación?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

Goal:

- Determine whether instructions are being interpreted consistently (oral, written, or either.)

IF NOT DEFINITELY NO: Hábleme de estas instrucciones.

¿Cree que se refieren a instrucciones verbales, a instrucciones escritas, a ambos tipos de instrucciones o a otra cosa?

¿Por qué?

36. ¿Se dio cuenta de si hubo algún error médico en su tratamiento?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 39

Goal:

- Determine if "medical mistakes" is interpreted consistently.

¿Qué cree que quieren decir con “error médico en su tratamiento”?

¿Qué cosa sería un error médico grande?

¿Qué cosa sería un error médico pequeño?

Entonces, ¿cree que están preguntando acerca de cualquier error médico o sólo acerca de los errores médicos grandes? ¿O están preguntando otra cosa?

¿Por qué?

37. ¿Estos errores le causaron algún problema significativo respecto al tratamiento o su problema de salud?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if scale is working properly.
- Determine how "significant problems" is interpreted.

¿Estos errores causaron ALGÚN problema significativo en su enfermedad o tratamiento, o no?

IF YES: Hábleme de esto.

¿Cuáles de estos problemas, si los hubo, fueron importantes?

****PROBE: significativo**

¿Qué significa para usted algo “significativo?”

¿Alguna gente dice “importante,” significa lo mismo que “significativo?”

¿Qué palabra usa usted más frecuentemente: “significativo” o “importante?”

38. ¿Este cirujano le explicó cómo ocurrió el error?

¹ Sí

² No

Goal:

- Determine if scale is appropriate or if respondents want to make finer distinctions.

IF YES: Hábleme más de esto. ¿Cuándo sucedió?

¿Qué le dijo este cirujano... o fue que otra persona le explicó?

¿Qué tan bien entendió usted la explicación?

IF NO: ¿Por qué no? Es decir, ¿por qué cree que el cirujano no le habló de esto?

39. ¿Este cirujano se aseguró de que usted se sintiera cómodo o tuviera un alivio adecuado del dolor después de salir del lugar donde tuvo la cirugía?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

Goal:

- Determine if question is being interpreted as asking about adequacy of pain management post-release.

¿Puede decirme en sus propias palabras a qué cree que se refiere esta pregunta?

¿Cómo supo qué responder a esta pregunta?

40. ¿Este cirujano le explicó los resultados de su cirugía de una manera fácil de entender?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if there are legitimate reasons for the surgeon not doing this.

¿Por qué eligió [RESPONSE] en vez de [RESPONSE+1]?

¿Alguna persona además del cirujano le explicó los resultados de la cirugía?

IF YES: Hábleme de estas explicaciones.

Y, ¿en las explicaciones de quién estaba pensando usted cuando respondió esta pregunta?

IF DEFINITELY NO: ¿Por qué no?

41. Después de su cirugía, ¿llamó por teléfono al consultorio de este cirujano para hacer alguna pregunta médica?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 43

Goal:

- Determine if respondent contacted the surgeon's office with questions in any other way.

IF NO: ¿Tenía alguna pregunta de tipo médico después de la cirugía?

IF YES: ¿Cómo trató de que le respondieran estas preguntas? ¿O no trató?

42. Después de su cirugía, cuando llamó por teléfono al consultorio de este cirujano, ¿con qué frecuencia le contestaron su pregunta médica tan pronto como lo necesitaba?

- ¹ Nunca
² A veces
³ La mayoría de las veces
⁴ Siempre

Goal:

- Determine how "as soon as you needed" differs from "as soon as you wanted."

Hábleme de esto. ¿Cómo se comunicó con el consultorio del cirujano?

¿Qué pasó?

¿Y cuánto tiempo tardó en obtener una respuesta?

¿Qué tan rápidamente necesitaba una respuesta?

¿Qué diferencia hay entre obtener una respuesta tan pronto como la necesitaba y obtener una respuesta tan pronto como usted quería?

43. Después de su cirugía, ¿con qué frecuencia le escuchó con atención este cirujano?

- ¹ Nunca
² A veces
³ La mayoría de las veces
⁴ Siempre

Goal:

- Determine if this scale is working properly.
- Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

¿Por qué eligió[RESPONSE] en vez de [RESPONSE±1]?

COMPARE WITH RESPONSE TO QUESTION 29. ¿Cree que había una diferencia en la atención con que el cirujano le escuchó después de la cirugía y la atención con que le escuchó antes de la cirugía, o no?

*IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS, PROBE:
Estoy un poco confundido. ¿Puede explicarme un poco más?*

44. Después de su cirugía, ¿con qué frecuencia este cirujano paso suficiente tiempo con usted?

- ¹ Nunca
² A veces
³ La mayoría de las veces
⁴ Siempre

Goal:

- Determine if this scale is working properly.

¿Cómo decidió qué responder?

SHOW ALTERNATE VERSION. Hay diferentes maneras de hacer preguntas. Me gustaría que respondiera esta versión de la pregunta. No olvide pensar en voz alta al responderla.

¿Qué pregunta prefirió?

- Nunca/ siempre*
Definitivamente sí/no
Me es indiferente

¿Por qué?

45. Después de su cirugía, ¿con qué frecuencia este cirujano le animó a hacer preguntas?

- ¹ Nunca
² A veces
³ La mayoría de las veces
⁴ Siempre

Goal:

- Determine if scale is appropriate.
- Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

¿Cómo supo qué responder?

COMPARE WITH RESPONSE TO QUESTION 31. ¿Cree que había una diferencia en la frecuencia en que el cirujano le animó a hacer preguntas después de la cirugía y la frecuencia en que lo hizo antes de la cirugía, o no?

*IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS, PROBE:
Estoy un poco confundido. ¿Puede explicarme un poco más?*

46. Después de su cirugía, ¿con qué frecuencia este cirujano le trató con cortesía y respeto?

- ¹ Nunca
² A veces
³ La mayoría de las veces
⁴ Siempre

Goal:

- Determine if scale is appropriate.
- Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

¿Cómo supo qué responder?

COMPARE WITH RESPONSE TO QUESTION 32. ¿Cree usted que hay una diferencia en la frecuencia con que el cirujano le trató con cortesía y respeto antes de la cirugía comparado a después de la cirugía?

*IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS, PROBE:
Estoy un poco confundido. ¿Puede explicarme un poco más?*

47. Después de su cirugía, ¿cuántas consultas tuvo con este cirujano?

- ¹ Ninguna
- ² 1 consulta
- ³ 2 consultas
- ⁴ 3 consultas
- ⁵ 4 a 6 consultas
- ⁶ 7 o más consultas

Goal:

- Determine respondent's ability to estimate the number of post-surgical visits

¿Cómo llegó a esta conclusión?

¿Qué tan seguro está de su respuesta?

EL PERSONAL DEL CONSULTORIO DE ESTE CIRUJANO

48. ¿Con qué frecuencia los oficinistas y recepcionistas del consultorio de este cirujano le dieron toda la ayuda que usted creía que debían darle?

- ¹ Nunca
² A veces
³ La mayoría de las veces
⁴ Siempre

Goal:

- Determine criteria used to determine if clerks and receptionists are helpful.
- Determine if scale is appropriate.
- Determine how respondents define clerks and receptionists from other staff

¿Qué cree que quieren decir con "le dieron toda la ayuda que usted creía que debían darle?"

¿En quién estaba pensando cuando respondió esto?

IF NOT ALWAYS: Entonces, ¿por qué eligió [RESPONSE]?

IF ALWAYS: ¿Siempre eran así con usted o no?

49. ¿Con qué frecuencia otros miembros del personal del consultorio de este cirujano le dieron toda la ayuda que usted creía que debían darle?

- ¹ Nunca
- ² A veces
- ³ La mayoría de las veces
- ⁴ Siempre

Goal:

- Determine if respondent distinguishes between clerks and receptionists and other staff.

¿En quién estaba pensando cuando respondió esta pregunta?

¿Y cómo sabía usted que [PERSON(s)] no eran miembros del personal de oficina o recepcionistas?

50. ¿Con qué frecuencia los oficinistas y recepcionistas del consultorio de este cirujano le trataron con cortesía y respeto?

- ¹ Nunca
² A veces
³ La mayoría de las veces
⁴ Siempre

Goal:

- Determine criteria respondents use to determine if clerks and receptionists treat them with courtesy and respect.

¿Qué pueden hacer los miembros del personal de oficina y las recepcionistas para mostrar que lo están tratando con cortesía y respeto? ¿Qué otra cosa?

51. ¿Con qué frecuencia otros miembros del personal del consultorio de este cirujano le trataron con cortesía y respeto?

¹ Nunca

² A veces

³ La mayoría de las veces

⁴ Siempre

Goal:

- Determine if respondent distinguished "other staff" from clerks and receptionists.

¿En quién estaba pensando cuando respondió esta pregunta? ¿Qué personas del consultorio del cirujano?

ATENCIÓN GENERAL QUE RECIBIÓ DE ESTE CIRUJANO

Estas preguntas se refieren a sus experiencias con este cirujano y su personal antes, durante y después de la cirugía.

52. ¿Con qué frecuencia este cirujano comprobó que usted entendiera todo?

- ¹ Nunca
² A veces
³ La mayoría de las veces
⁴ Siempre

Goal:

- Determine if respondent attended to instructions preceding question 52.
- Determine if respondents are aware of whether and how a surgeon can check for comprehension.
- Determine if scale is appropriate.

INTERVIEWER: DID RESPONDENT READ OR SEEM TO NOTICE THE SENTENCE PRECEDING QUESTION 52?

YES NO DON'T KNOW

¿Qué puede hacer o decir un cirujano para comprobar que usted entiende todo?

IF NOT "USUALLY": Si alguien responde "La mayoría de las veces" a esta pregunta, ¿qué significa eso?

¿En qué se diferencia eso de "A veces"?

IF "USUALLY": Si alguien responde "A veces" a esta pregunta, ¿qué significa eso?

¿En qué se diferencia eso de "la mayoría de las veces"?

53. ¿Siente que este cirujano realmente se preocupó por usted como persona?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine criteria used in determining whether a surgeon really cares about you.
- Determine if scale is working properly.

¿Qué puede decir o hacer un cirujano para mostrar que realmente se preocupa por usted como persona? ¿Qué otra cosa?

¿Creé usted que un cirujano debe de preocuparse por usted como persona? ¿Por qué (no)?

IF NOT “SOMEWHAT YES”: Si alguien responde “un poco, sí” a esta pregunta, ¿qué significa eso?

¿En qué se diferenciaría eso de “un poco, no”?

IF “SOMEWHAT YES”: Si alguien responde “No mucho, no” a esta pregunta, ¿qué significa eso?

¿En qué se diferenciaría eso de “un poco, sí”?

SHOW ALTERNATE VERSION. Voy a mostrarle otra versión de esta pregunta y a pedirle que la responda. No olvide pensar en voz alta al responderla.

¿Qué pregunta prefirió?

- Nunca/ siempre*
Definitivamente sí/no
Me es indiferente

¿Por qué?

54. Usando un número del 0 al 10, el 0 siendo el peor cirujano posible y el 10 el mejor cirujano posible, ¿qué número usaría para calificar a éste cirujano?

- 0 El peor cirujano posible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 El mejor cirujano posible

Goal:

- Determine if respondent is using reasonable and appropriate criteria in making a judgment.

IF 8 OR LESS: ¿Qué tendría que hacer este cirujano para que usted le diera una calificación más alta, por ejemplo, para que le diera un 9?

IF 9 OR 10: ¿Qué le haría bajar la calificación de este cirujano a un 8? Es decir, ¿qué podría este cirujano hacer o decir para que usted le bajara la calificación?

IF NOT 5: ¿Y cómo sería un cirujano que reciba una calificación de 5?

55. ¿Los resultados de esta cirugía fueron tan buenos como lo esperaba o mejores?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

Goal:

- Determine surgeon's role in establishing expectations.
- Determine how expectations are created and if they are "realistic."

¿Qué expectativas tenía usted respecto a los resultados de esta cirugía?

¿Qué hizo que se sintiera así? Es decir, ¿qué leyó o qué le dijo la gente para que se sintiera así?

¿Y qué (más) dijo o hizo el cirujano para que usted esperara estos resultados?

SOBRE USTED

56. En general, ¿cómo calificaría toda su salud?

- 1 Excelente
- 2 Muy buena
- 3 Buena
- 4 Regular
- 5 Mala

Goal:

- Determine the comparison group being used in making this judgment.

Cuando usted dijo [RESPONSE], ¿con quién se estaba comparando? Es decir, ¿con qué tipo de personas se estaba comparando?

57. ¿Qué edad tiene?

- ¹ 18 a 24 años
- ² 25 a 34
- ³ 35 a 44
- ⁴ 45 a 54
- ⁵ 55 a 64
- ⁶ 65 a 74
- ⁷ 75 años o más

NO PROBE

58. ¿Es usted hombre o mujer?

- ¹ Hombre
- ² Mujer

NO PROBE

59. Sin contar esta cirugía, ¿aproximadamente cuántas cirugías más ha tenido?

¹ Ninguna

² 1 cirugía

³ 2 cirugías

⁴ 3 a 5 cirugías

⁵ 6 a 9 cirugías

⁶ 10 o más cirugías

Goal:

- Determine whether minor office and dental surgeries are being considered as surgeries.

IF NOT NONE: Hábleme de esas cirugías. ¿Para qué fueron?

¿Cree que quieren que incluya como cirugías los procedimientos como quitarse un lunar en el consultorio del médico, o no? ¿Por qué (no)?

¿Y qué me dice de las cirugías dentales, como la extracción de una muela del juicio? ¿Cree que quieren que incluya estas cosas o no? ¿Por qué (no)?

60. ¿Cuál es el grado o nivel escolar más alto que ha completado?

- 1 8 años de escuela o menos
- 2 9 a 12 años de escuela, pero sin graduarse
- 3 Graduado de la escuela secundaria (*high school*), Diploma de escuela secundaria, preparatoria, o su equivalente (o GED)
- 4 Algunos cursos universitarios o un título universitario de un programa de 2 años
- 5 Título universitario de 4 años
- 6 Título universitario de más de 4 años

NO PROBE

61. ¿Es usted de origen o ascendencia hispana o latina?

- 1 Sí, hispano o latino
- 2 No, ni hispano ni latino

NO PROBE

62. ¿A qué raza pertenece? Por favor marque una o más.

- 1 Blanca
- 2 Negra o afroamericana
- 3 Asiática
- 4 Nativa de Hawai o de otras islas del Pacífico
- 5 Indígena americana o nativa de Alaska
- 6 Otra

NO PROBE

GRACIAS

Cuando haya completado el cuestionario, por favor devuélvalo en el sobre con porte o franqueo pagado.

1. ¿Qué preguntas fueron problemáticas para usted? ¿Por qué?.

2. ¿Huba alguna otra cosa poco clara o confusa, o algo le sonó raro?

Sí → Describa, por favor.

No

Muchas gracias por toda su ayuda. Aquí tiene el sobre con su pago. Necesito que firme este recibo.

Antes de irse, ¿tiene alguna pregunta?

VERSIONES ALTERNATIVAS

13. Durante las consultas previas a la cirugía, ¿le escuchó con atención este cirujano?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

44. Después de la cirugía, ¿pasó suficiente tiempo con usted este cirujano?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

53. ¿Con que frecuencia siente que este cirujano realmente se preocupa por usted como persona?

¹ Nunca

² A veces

³ La mayoría de las veces

⁴ Siempre

VERSIONES ALTERNATIVAS

13. Durante las consultas previas a su cirugía, ¿le escuchó con atención este cirujano?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

44. Después de su cirugía, ¿pasó suficiente tiempo con usted este cirujano?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

53. ¿Con que frecuencia siente que este cirujano realmente se preocupa por usted como persona?

¹ Nunca

² A veces

³ La mayoría de las veces

⁴ Siempre

APPENDIX D:
ROUND 2 SURGICAL CAHPS COGNITIVE TESTING
SURVEYS AND INTERVIEW PROTOCOLS

Surgical Care Questionnaire

Round 2

3/14/08

SURVEY INSTRUCTIONS

- ◆ Answer all the questions by checking the box to the left of your answer.
- ◆ You are sometimes told to skip over some questions in this survey. When this happens you will see an arrow with a note that tells you what question to answer next, like this:

Yes → *If Yes, Go to Question 1 on Page 1*

No

YOUR SURGEON

1. Who is the surgeon who operated on you?

BEFORE YOUR SURGERY

2. Was your surgery scheduled as soon as you needed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

3. Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

4. Did this surgeon or this surgeon's staff give you easy to understand instructions about getting ready for your surgery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

5. Before your surgery, did you phone this surgeon's office with a medical question?

- ¹ Yes
- ² No → If No, Go to Question 7

6. **Before your surgery, when you phoned this surgeon's office, did you get your medical questions answered as soon as you needed?**

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

7. **Before your surgery, how many office visits did you have with this surgeon?**

- ¹ None --> **If None, Go to Question 17**
- ² 1 Visit
- ³ 2 Visits
- ⁴ 3 Visits
- ⁵ 4 to 6 Visits
- ⁶ 7 or more Visits

8. **During your office visits before your surgery, did this surgeon talk to you to find out about important things in your medical history?**

- ¹ Yes
- ² No

9. **During your office visits before your surgery, did this surgeon tell you there was more than one way to treat your condition?**

- ¹ Yes
- ² No --> **If No, Go to Question 12**

10. **During your office visits before your surgery, did this surgeon ask which way to treat your condition you thought was best for you?**

- ¹ Yes
- ² No

11. **During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?**

- ¹ Yes
- ² No

12. During your office visits before your surgery, did this surgeon listen carefully to you?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

13. During your office visits before your surgery, did this surgeon spend enough time with you?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

14. During your office visits before your surgery, did this surgeon encourage you to ask questions?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

15. During your office visits before your surgery, did this surgeon treat you with courtesy and respect?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

16. During your office visits before your surgery, did this surgeon or this surgeon's staff use diagrams, models, videos, or other materials to help explain things to you?

- ¹ Yes
- ² No

YOUR SURGERY

17. After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?

¹ Yes

² No → If No, Go to Question 19

18. Did this visit make you feel more calm and relaxed?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

19. After you were admitted to the hospital or surgical facility, were there any long delays before your surgery began?

¹ Yes

² No → If No, Go to Question 21

20. Were you kept informed about how long you would have to wait for your surgery to begin?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

21. Were any family or friends in the building during your surgery?

¹ Yes

² No → If No, Go to Question 23

22. Did this surgeon or a member of the operating team discuss your surgery with your family or friends immediately after the surgery was over?

¹ Yes

² No

³ Don't know

23. Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery?

¹ Yes

² No → If No, Go to Question 25

24. Did this visit occur in the first 24 hours after your surgery?

¹ Yes

² No

ANESTHESIOLOGY

25. Were you given something so you would not feel pain during your surgery?

¹ Yes

² No --> If No, Go to question 33

26. Did an anesthesiologist do this or did this surgeon give you something so you would not feel pain during your surgery?

¹ Anesthesiologist did this

² Surgeon did this --> If this surgeon did this, Go to question 33

³ Don't know --> If Don't know, Go to question 33

27. Did this anesthesiologist encourage you to ask questions?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

28. Did you ask this anesthesiologist any questions?

¹ Yes

² No --> If No, Go to question 30

29. Did this anesthesiologist answer your questions clearly?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

30. After you arrived at the hospital or surgical facility, did this anesthesiologist visit you before your surgery?

- ¹ Yes
- ² No → If No, Go to Question 32

31. Did talking with this anesthesiologist during this visit make you feel more calm and relaxed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

32. Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?

- 0 Worst anesthesiologist possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best anesthesiologist possible

AFTER YOUR SURGERY

- 33. Did this surgeon or this surgeon's staff explain what to expect during your recovery period?**
- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no
- 34. Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery period?**
- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no
- 35. Did this surgeon or this surgeon's staff give you easy to understand instructions about what to do during your recovery period?**
- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no
- 36. Did this surgeon make sure you were physically comfortable or had enough pain relief after you left the facility where you had your surgery?**
- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no
- 37. After your surgery, did you phone this surgeon's office with a medical question?**
- ¹ Yes
- ² No → If No, Go to Question 39

38. After your surgery, when you phoned this surgeon's office, did you get an answer to your medical questions as soon as you needed?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

39. After your surgery, did you visit this surgeon at the surgeon's office, or talk with this surgeon?

- 1 Yes
- 2 No --> **If No, Go to Question 44**

40. After your surgery, did this surgeon listen carefully to you?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

41. After your surgery, did this surgeon spend enough time with you?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

42. After your surgery, did this surgeon encourage you to ask questions?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

43. After your surgery, did this surgeon treat you with courtesy and respect?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

44. After your surgery, how many times did you visit this surgeon's office?

- 1 None
- 2 1 Visit
- 3 2 Visits
- 4 3 Visits
- 5 4 to 6 Visits
- 6 7 or more Visits

STAFF AT THIS SURGEON'S OFFICE

45. Were the staff at this surgeon's office as helpful as you thought they should be?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

46. Did the staff at this surgeon's office treat you with courtesy and respect?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

YOUR OVERALL CARE FROM THIS SURGEON
--

47. Were you aware of any medical mistakes by this surgeon in your treatment?

- ¹ Yes
- ² No → If No, Go to Question 50

48. Did these mistakes cause any significant problems for your treatment or condition?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

49. Did this surgeon explain how the mistake happened?

- ¹ Yes
- ² No

50. Did this surgeon check to be sure you understood everything?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

51. Do you feel this surgeon really cared about you as a person?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

52. Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate this surgeon?

- 0 Worst surgeon possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best surgeon possible

53. Were the results of this surgery as good or better than you expected?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

ABOUT YOU

54. In general, how would you rate your overall health?

- ¹ Excellent
- ² Very good
- ³ Good
- ⁴ Fair
- ⁵ Poor

55. What is your age?

- 1 18 to 24 years
- 2 25 to 34
- 3 35 to 44
- 4 45 to 54
- 5 55 to 64
- 6 65 to 74
- 7 75 years or older

56. Are you male or female?

- 1 Male
- 2 Female

57. Not counting this surgery, about how many other surgeries have you had?

- 1 None
- 2 1 surgery
- 3 2 surgeries
- 4 3 to 5 surgeries
- 5 6 to 9 surgeries
- 6 10 or more

58. What is the highest grade or level of school that you have completed?

- 1 8th grade or less
- 2 Some high school, but did not graduate
- 3 High school graduate or GED
- 4 Some college or 2-year degree
- 5 4-year college graduate
- 6 More than 4-year college degree

59. Are you of Hispanic or Latino origin or descent?

- 1 Yes, Hispanic or Latino
- 2 No, not Hispanic or Latino

60. What is your race? Please mark one or more.

- 1 White
- 2 Black or African American
- 3 Asian
- 4 Native Hawaiian or Other Pacific Islander
- 5 American Indian or Alaskan Native
- 6 Other

THANK YOU

Please return the completed survey in the postage-paid envelope.

Surgical Care Survey

Cognitive Testing Protocol

Second Round

March 14, 2008

Introduction

Before surveys are administered, we like to have people answer them to find out about potential problems. The way we do this is by having you answer the questions and tell us what you were thinking when you answered them. In other words, we want you to think out loud while answering.

Since people are not used to thinking out loud, I'd like to show you an example of what I mean. Suppose someone asked this question. (SHOW QUESTION: "How much did you talk on the telephone in the last week?") If someone asked me that, I would say:

Model the behavior, by recalling specific phone calls for home (e.g., "First, I'll figure out how much I use the phone at home. Let's see, I call my son about once a week, for about 30 minutes [WRITE DOWN NUMBER] and generally my calls with my daughter take about the same time [WRITE DOWN NUMBER]. Then, there are the telemarketers -- that's got to be another hour a week [WRITE DOWN NUMBER]. And calling my friends, to set up golf dates and things -- I guess that's about another hour a week [WRITE DOWN NUMBER]. I also use the phone for the Internet and e-mail, but I don't really think that's talking on the phone, so I won't count that.")

Then, recall phone calls from spouse/friend/family at work as a regular, daily event. Multiply this by five. Then, use an estimation and adjustment strategy for the week (e.g., "But last week I was on the phone a lot more than usual. We were arranging a party, so I'll double that for last week.")

Then, estimate normal daily work calls, and multiply by five. Write down this number. Raise a question about conference calls and video conferences (e.g., "I also was on a teleconference for two hours. Should I count that or not? It's talking on the phone, but it's not really talking by one person to just another person. So, I won't count that.")

Add up the numbers and present the answer.

Have the participant do the same thing.

If the participant doesn't seem to "get it," hand them the second question, "How many windows are in your home?" and ask them to answer it.

Do you have any questions?

Okay, let's start. I'd like you to pretend you received this survey in the mail, with the enclosed letter, and that you decided to answer it. Begin with the first question, and remember to think out loud as you answer the questions.

YOUR SURGEON

1. Who is the surgeon who operated on you?

BEFORE YOUR SURGERY

2. Was your surgery scheduled as soon as you needed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if respondents are using "reasonable" criteria for determining their need for the surgery to be scheduled when it was scheduled.

How come you said [RESPONSE] instead of [RESPONSE_{±1}]?

When was the surgery scheduled for? Do you remember the scheduled date?

Was this as soon as you wanted it or not?

3. Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

Goal: Determine how respondents who don't want information answer this question.

About how much information about your surgery did you want?

Do you think you got this much information or not?

IF INCONSISTENT WITH THEIR RESPONSE TO Q.3, SAY: So, can you explain a little more about why you said [RESPONSE TO Q. 3]?

4. Did this surgeon or this surgeon's staff give you easy to understand instructions about getting ready for your surgery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if 'getting ready for surgery' is interpreted consistently.
Determine if scale is working as intended.*

*What do you think they mean by "instructions about getting ready for your surgery?"
Can you give me some examples of these instructions?*

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

5. **Before your surgery, did you phone this surgeon's office with a medical question?**

¹ Yes

² No → **If No, Go to Question 7**

Goal: Determine if 'medical question' is interpreted as intended.

What do you think they mean by 'medical question?' Can you give me some examples?

IF YES: What medical questions did you call about?

6. Before your surgery, when you phoned this surgeon's office, did you get your medical questions answered as soon as you needed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is appropriate for this question.

See if respondents with only one question have problems with this item

Determine how respondent makes judgment about whether the answer was "as soon as needed."

What do you think they mean by "as soon as you needed?"

About how many times did you call with medical questions?

And, about how many times did you get answers as soon as you needed?

IF RESPONSES APPEAR INCONSISTENT WITH ANSWER TO Q.6, PROBE TO DETERMINE REASON FOR DISCREPANCY.

7. Before your surgery, how many office visits did you have with this surgeon?

¹ None --> **If None, Go to Question 17**

² 1 Visit

³ 2 Visits

⁴ 3 Visits

⁵ 4 to 6 Visits

⁶ 7 or more Visits

Goal: Determine if all visits are being included or just visits related to this surgery.

Do you think they are asking about all the visits someone has ever had with their surgeon or only visits related to this particular surgery?

Why?

8. During your office visits before your surgery, did this surgeon talk to you to find out about important things in your medical history?

¹ Yes

² No

Goal: Determine if "important things in your medical history" is being interpreted consistently and properly.

Determine if discussions with the surgeon's staff are being included.

Determine if there are appropriate reasons for these discussions to NOT have been conducted.

What do you think they mean by "important things in your medical history?" What are some examples of "important things" in someone's medical history?

IF YES: Tell me a little more about this surgeon talking to you to find out important things about your medical history. What things were talked about?

Who did this -- the surgeon, the surgeon's staff, or both?

IF NO: Why not?

9. During your office visits before your surgery, did this surgeon tell you there was more than one way to treat your condition?

¹ Yes

² No --> **If No, Go to Question 12**

Goal: Determine how "treat your condition" is interpreted..

IF YES: Tell me about the different ways to treat your condition that were discussed.

Is this question asking about the choice of whether or not to have the surgery -- or is it asking about something else? IF SOMETHING ELSE: What else?

10. During your office visits before your surgery, did this surgeon ask which way to treat your condition you thought was best for you?

¹ Yes

² No

Goal: Determine if respondents are interpreting this item literally (i.e., the surgeon asking "Which way to treat your condition do you think is best for you?").

IF NO: Why do you think the surgeon didn't ask which way you thought was best?

How did the surgeon know which way you preferred?

IF YES: How did the surgeon do this? How did the surgeon figure out which way you thought was best for you?

11. During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?

¹ Yes

² No

Goal: Determine if "risks and benefits" is interpreted correctly.

Determine if talks with staff are being included.

IF YES: Tell me about this. What was discussed?

Were these discussions with the surgeon, the surgeon's staff, or both?

IF NO: Why not?

What do you think they mean by "risks and benefits of your treatment choices?" What are some (other) examples of this?

12. During your office visits before your surgery, did this surgeon listen carefully to you?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if this scale is working properly.

Determine if respondents can make appropriate judgments about the surgeon's attentiveness.

What do you think they mean by "listen carefully to you?" That is, what did the surgeon do or say that showed he/she was listening carefully to you?

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

NOTE RESPONSE TO THIS QUESTION SO YOU CAN COMPARE IN Q40.

13. During your office visits before your surgery, did this surgeon spend enough time with you?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if this scale is working properly.

Determine if respondents can make appropriate judgments about spending enough time.

What do you think they mean by "spending enough time with you?"

So, about how many office visits did you tell me you had before your surgery?

And, for how many of these visits did the surgeon spend enough time with you?

IF RESPONSE IS INCONSISTENT, PROBE TO DETERMINE REASON FOR INCONSISTENCY.

14. During your office visits before your surgery, did this surgeon encourage you to ask questions?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

Goal: Determine if this scale is appropriate.

Determine if respondents can make appropriate judgments about whether the surgeon encouraged questions.

What do you think they mean by "encourage you to ask questions?" That is, what can a surgeon say or do to encourage you to ask questions?

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

NOTE RESPONSE TO THIS QUESTION SO YOU CAN COMPARE IN Q42.

15. During your office visits before your surgery, did this surgeon treat you with courtesy and respect?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if this scale is working properly.

Determine if respondents can make appropriate judgments about courtesy and respect.

What did the surgeon do or say that made you feel he/she was treating you with courtesy and respect during these office visits?

And why did you say [RESPONSE] instead of [RESPONSE_{±1}] for this question?

NOTE RESPONSE TO THIS QUESTION SO YOU CAN COMPARE IN Q43.

16. During your office visits before your surgery, did this surgeon or this surgeon's staff use diagrams, models, videos, or other materials to help explain things to you?

¹ Yes

² No

Goal: Determine if there are appropriate reasons for a negative response.

IF YES: How did they do this?

IF NO: Why not?

Did you want them to explain things to you or not?

YOUR SURGERY

17. After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?

¹ Yes

² No → **If No, Go to Question 19**

Goal: Determine how the respondent interprets "visit."

See if patients who had in-office surgery have problems answering this item.

IF NO TO Q.17: When did you first see the surgeon on the day of your surgery? Tell me a little about it.

Is this what you expected or not? Why?

Did you see anyone from the surgeon's staff or team on the day of your surgery, before your surgery? IF YES: Whom?

18. Did this visit make you feel more calm and relaxed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if scale is appropriate
Determine how the respondent interprets "visit."*

Tell me a little more about this visit.

Where were you when the surgeon visited?

When was it?

And, how come you picked [RESPONSE] instead of [RESPONSE_{±1}]?

19. After you were admitted to the hospital or surgical facility, were there any long delays before your surgery began?

¹ Yes

² No → **If No, Go to Question 21**

Goal: Determine if "long delays" is consistently interpreted.

About how long did you have to wait after being admitted for your surgery to begin?

And, what do you think they mean by "long delays?" That is, how long is a "long delay?"

20. Were you kept informed about how long you would have to wait for your surgery to begin?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is appropriate

IF NOT "DEFINITELY NO": Tell me about it. That is, who kept you informed?

How often did they tell you?

Why did you choose [RESPONSE] instead of [RESPONSE_{±1}]?

21. Were any family or friends in the building during your surgery?

¹ Yes

² No → **If No, Go to Question 23**

Goal: Determine if 'in the building' is interpreted correctly.

What do you think they mean by "in the building?"

IF NO: Did you want any friends or family to be around during your surgery?

IF YES: How long were they in the building?

22. Did this surgeon or a member of the operating team discuss your surgery with your family or friends immediately after the surgery was over?

¹ Yes

² No

³ Don't know

Goal: See if there were any confidentiality problems related to HIPAA.

Determine how people who do not want this information shared respond to the question.

Determine how "immediately after the surgery was over" is interpreted.

What do you think they mean by "immediately after your surgery was over?"

IF YES: Tell me a little more about this. Who discussed the surgery? What did they say?

Did you want them to discuss the surgery with your family or friends -- or not?

IF NO OR DON'T KNOW: Did you want them to discuss the surgery with your family or friends -- or not? Why (not)?

23. Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery?

¹ Yes

² No → **If No, Go to Question 25**

Goal: Determine if respondent is aware of visit.

Determine if 'outcome of surgery' is interpreted as intended.

Determine how people who did not stay overnight answer this question.

What do you think they mean by "discuss the outcome of your surgery?"

IF YES: Tell me about this visit -- or visits.

IF NO: Did any one from the surgeon's staff visit you to discuss the outcome of your surgery before you left the facility?

Yes --> *Tell me about this visit*

No --> *Why not?*

About how long did you stay in the surgical facility?

24. Did this visit occur in the first 24 hours after your surgery?

¹ Yes

² No

Goal: Determine if heavily sedated patients can answer this question.

IF YES: What happened during this visit?

IF NO: How certain are you that the surgeon did not try to visit you during this period?

ANESTHESIOLOGY

25. Were you given something so you would not feel pain during your surgery?

¹ Yes

² No --> **If No, Go to question 33**

Goal: Determine if anesthesia is interpreted as intended.

IF NO: Were you given anything to put you to sleep during your surgery or not?

Yes --> And this is different from being given something so you wouldn't feel pain because

No --> Why not?

26. Did an anesthesiologist do this or did this surgeon give you something so you would not feel pain during your surgery?

¹ Anesthesiologist did this

² Surgeon did this --> **If this surgeon did this, Go to question 33**

³ Don't know --> **If Don't know, Go to question 33**

Goal: Determine if respondent is capable of determining who provided anesthesiology

IF ANESTHESIOLOGIST OR SURGEON: How do you know this?

IF DON'T KNOW: If you had to guess, how would you answer this question?

27. Did this anesthesiologist encourage you to ask questions?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if respondent is using reasonable criteria in deciding whether or not the anesthesiologist encouraged questioning.

Determine how respondents who do not want to ask questions answer this item.

IF DEFINITELY/SOMEWHAT YES: How did the anesthesiologist encourage you? That is, what did the anesthesiologist do or say that showed that he or she wanted you to ask questions?

IF DEFINITELY/SOMEWHAT NO: What did the anesthesiologist do or say that showed that he/she did NOT want you to ask questions?

28. Did you ask this anesthesiologist any questions?

¹ Yes

² No --> **If No, Go to question 30**

Goal: Verify that "questions" are being interpreted to mean "medical questions."

IF YES: What did you ask about?

IF NO: Why not?

What do you think they mean by "any questions?" That is, are they only interested in questions about anesthesiology or are they interested in other kinds of questions? IF OTHER: What kinds?

29. Did this anesthesiologist answer your questions clearly?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is appropriate.

How come you said [RESPONSE] instead of [RESPONSE_{±1}]?

30. After you arrived at the hospital or surgical facility, did this anesthesiologist visit you before your surgery?

¹ Yes

² No → **If No, Go to Question 32**

Goal: Confirm that respondent is not reporting other visits with the anesthesiologist.

IF YES: Tell me about this visit.

Where did it happen?

About how long was it?

What did the anesthesiologist say or do?

IF NO: Did you ever see this anesthesiologist before your surgery or not?

IF NO: Did you see anyone about anesthesiology before your surgery?

31. Did talking with this anesthesiologist during this visit make you feel more calm and relaxed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is working properly.

How calm and relaxed were you before this visit?

And, how calm and relaxed were you after this visit?

*IF RESPONSES TO PROBE ARE INCONSISTENT WITH RESPONSE TO ITEM, SAY:
I'm a little confused. You said [RESPONSE TO Q.31] -- that the visit made you feel more calm and relaxed. And, you said that before this visit, you felt [RESPONSE TO FIRST PROBE]. And, after this visit, you felt [RESPONSE TO SECOND PROBE]. Can you explain a little more?*

32. Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?

- 0 Worst anesthesiologist possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best anesthesiologist possible

Goal: Determine if scale is appropriate and that respondent is using reasonable criteria for making a judgment.

How did you figure this out? What were you thinking about?

IF NOT '3': What would an anesthesiologist that is rated "3" be like?

IF NOT '7': How about a "7?" What would an anesthesiologist like this do or say?

AFTER YOUR SURGERY

33. Did this surgeon or this surgeon's staff explain what to expect during your recovery period?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if "explain what to expect during your recovery period" is consistently interpreted and if it is interpreted similarly to "how well prepared were you."

How did the surgeon or her/his staff explain what to expect to you?

How well did this help you prepare for your recovery?

34. Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery period?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if scale is appropriate (that is, should it be dichotomous?)
Determine how "warn you" is interpreted.
Determine how "recovery period" is interpreted.*

What do you think they mean by "recovery period?" That is, when did your recovery period begin?

And, when did it end? Or is still going on? Why do you feel this way?

IF NOT "DEFINITELY NO": How did they warn you about these signs or symptoms?

Would giving you some materials that listed warning signs or symptoms be the same as warning you about any signs or symptoms that require immediate care? Or would they have to spend some time talking about it with you?

Why?

IF SOMEWHAT YES, ASK DEFINITELY YES

IF SOMEWHAT NO, ASK DEFINITELY NO

IF DEFINITELY YES, ASK SOMEWHAT YES

IF DEFINITELY NO, ASK SOMEWHAT NO

Why did you pick [RESPONSE] instead of [ALTERNATE RESPONSE]?

35. Did this surgeon or this surgeon's staff give you easy to understand instructions about what to do during your recovery period?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

Goal: Determine whether instructions are being interpreted consistently (oral, written, or either.)

IF NOT DEFINITELY NO: Tell me about these instructions.

Do you think they're asking about verbal instructions, written instructions, both, or something else?

Why?

36. Did this surgeon make sure you were physically comfortable or had enough pain relief after you left the facility where you had your surgery?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

Goal: Determine if question is being interpreted as asking about adequacy of pain management post-release.

What do you think this question is asking, in your own words?

How did you figure out your answer to this question?

37. After your surgery, did you phone this surgeon's office with a medical question?

¹ Yes

² No → **If No, Go to Question 39**

Goal: Determine if respondent contacted the surgeon's office with questions in any other way.

IF NO: Did you have any medical questions after your surgery?

IF YES: How did you try to get these questions answered? Or, did you try at all?

IF YES TO THIS QUESTION, NOTE SO YOU CAN ASK PROBE IN Q39.

38. After your surgery, when you phoned this surgeon's office, did you get an answer to your medical questions as soon as you needed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine how "as soon as you needed" differs from "as soon as you wanted."

Tell me about this. How did you get in touch with the surgeon's office?

What happened?

And, how long did it take to get an answer?

How quick did you need an answer?

In what ways, if any, is getting an answer as soon as you needed different from getting an answer as soon as you wanted?

39. After your surgery, did you visit this surgeon at the surgeon's office, or talk with this surgeon?

¹ Yes

² No --> **If No, Go to Question 44**

*Goal: Determine if people who responded affirmatively to question 37 are confused.
Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.*

IF YES TO Q.37: In what ways, if any, is this question different from question 37? Or are they the same? Why?

40. After your surgery, did this surgeon listen carefully to you?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if this scale is working properly.

Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

COMPARE WITH RESPONSE TO QUESTION 12. Do you think there was a difference in how carefully the surgeon listened to you after the surgery, compared to how carefully the surgeon listened before the surgery, or not?

*IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS,
PROBE: I'm a little confused Could you explain a little more?*

41. After your surgery, did this surgeon spend enough time with you?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if this scale is working properly.

How did you decide on your answer?

42. After your surgery, did this surgeon encourage you to ask questions?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

Goal: Determine if scale is appropriate.

Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

How did you come up with your answer?

COMPARE WITH RESPONSE TO QUESTION 14. Do you think there was a difference in how the surgeon encouraged you to ask questions after the surgery, compared to before the surgery, or not?

*IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS,
PROBE: I'm a little confused Could you explain a little more?*

43. After your surgery, did this surgeon treat you with courtesy and respect?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is appropriate.

Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

How did you come up with your answer?

COMPARE WITH RESPONSE TO QUESTION 15. Do you think there was a difference in how the surgeon treated you with courtesy and respect after the surgery, compared to before the surgery, or not?

*IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS,
PROBE: I'm a little confused Could you explain a little more?*

44. After your surgery, how many times did you visit this surgeon's office?

¹ None

² 1 Visit

³ 2 Visits

⁴ 3 Visits

⁵ 4 to 6 Visits

⁶ 7 or more Visits

Goal: Determine respondent's ability to estimate the number of post-surgical visits

Determine whether visits for physical therapy or other types of therapy are being counted.

How did you figure this out?

How sure are you of your answer?

Tell me about these visits. That is, besides the surgeon, what other types of people, if any, were providing health care or health services to you?

STAFF AT THIS SURGEON'S OFFICE

45. Were the staff at this surgeon's office as helpful as you thought they should be?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine criteria used to determine if staff are helpful.
Determine if scale is appropriate.
See if anyone is NOT included as staff*

What do you think they mean by "as helpful as you thought they should be?"

Who did you think of when you answered this?

IF NOT MENTIONED: Were you thinking about the receptionist or not? Why (not)?

IF NOT DEFINITELY YES: So, how come you picked [RESPONSE]?

IF DEFINITELY YES: Were they always like this to you or not?

46. Did the staff at this surgeon's office treat you with courtesy and respect?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine criteria respondents use to determine if staff treat them with courtesy and respect.

See if any staff are not included

*What can staff say or do that shows they are treating you with courtesy and respect?
What else?*

And, who were you thinking of when you answered this?

IF NOT MENTIONED: Were you thinking about the receptionists or not? Why (not)?

YOUR OVERALL CARE FROM THIS SURGEON

47. Were you aware of any medical mistakes by this surgeon in your treatment?

¹ Yes

² No → **If No, Go to Question 50**

Goal: Determine if "medical mistakes" is interpreted consistently.

What do you think they mean by "medical mistakes in your treatment?"

What would a big medical mistake be?

What would a small medical mistake be?

So, do you think they are asking about any medical mistake or only big medical mistakes? Or, are they asking something else?

Why?

48. Did these mistakes cause any significant problems for your treatment or condition?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is working properly.

Determine how "significant problems" is interpreted.

Did these mistakes cause ANY problems for your treatment or condition or not?

IF YES: Tell me about them.

Which of these problems, if any, were significant?

49. Did this surgeon explain how the mistake happened?

¹ Yes

² No

Goal: Determine if scale is appropriate or if respondents want to make finer distinctions.

IF YES: Tell me more. When did this happen?

What did this surgeon say -- or did another person explain?

How well did you understand the explanation?

IF NO: Why not? That is, why do you think that the surgeon didn't talk to you about this?

50. Did this surgeon check to be sure you understood everything?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if respondents are aware of whether and how a surgeon can check for comprehension.

Determine if scale is appropriate.

Check to see if this item disrupts the "flow" of the questionnaire.

What can a surgeon do or say to check to make sure that you understand everything?

IF NOT "SOMEWHAT NO": If someone said "Somewhat no" to this question, what would that mean?

How different would this be from "Somewhat yes?"

IF "SOMEWHAT NO": If someone said "Somewhat yes" to this question, what would that mean?

How different would this be from "Somewhat no?"

51. Do you feel this surgeon really cared about you as a person?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine criteria used in determining whether a surgeon really cares about you.
Determine if scale is working properly.*

*What can a surgeon say or do to show that she/he really cares about you as a person?
What else?*

Do you think a surgeon should care about you as a person or not? Why (not)?

*IF NOT "SOMEWHAT YES": If someone said "Somewhat yes" to this question, what
would that mean?*

How different would this be from "Somewhat no?"

*IF "SOMEWHAT YES": If someone said "Somewhat no" to this question, what would
that mean?*

How different would this be from "Somewhat yes?"

52. Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate this surgeon?

- 0 Worst surgeon possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best surgeon possible

Goal: Determine if respondent is using reasonable and appropriate criteria in making a judgment.

IF 8 OR LESS: What would this surgeon have to do to get a higher rating from you -- say, to get a 9?

IF 9 OR 10: What would make you lower your rating of this surgeon to an 8? That is, what could she/he do or say that would cause you to lower your rating?

IF NOT 5: And, what would a surgeon who gets a "5" be like?

53. Were the results of this surgery as good or better than you expected?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine surgeon's role in establishing expectations.

Determine how expectations are created and if they are "realistic."

What were your expectations for the results of this surgery?

What made you feel this way? That is, what did you read about -- and what did people tell you -- that made you feel this way?

And, what (else) did the surgeon say or do that made you expect these results?

ABOUT YOU

54. In general, how would you rate your overall health?

- 1 Excellent
- 2 Very good
- 3 Good
- 4 Fair
- 5 Poor

Goal: Determine the comparison group being used in making this judgment/

When you said [RESPONSE], who were you comparing yourself to? That is, what kinds of people were you comparing yourself to?

55. What is your age?

- 1 18 to 24 years
- 2 25 to 34
- 3 35 to 44
- 4 45 to 54
- 5 55 to 64
- 6 65 to 74
- 7 75 years or older

56. Are you male or female?

- 1 Male
- 2 Female

57. Not counting this surgery, about how many other surgeries have you had?

- None
- 1 surgery
- 2 surgeries
- 3 to 5 surgeries
- 6 to 9 surgeries
- 10 or more

Goal: Determine whether minor office and dental surgeries such as a wisdom tooth removal are being considered as surgeries.

IF NOT NONE: Tell me about them. What were they for?

Do you think they want you to count things like have a mole removed in the doctor's office as a surgery or not? Why (not)?

How about dental surgeries, such as having a wisdom tooth removed? Do you think they want you to count this or not? Why (not)?

58. What is the highest grade or level of school that you have completed?

- 8th grade or less
- Some high school, but did not graduate
- High school graduate or GED
- Some college or 2-year degree
- 4-year college graduate
- More than 4-year college degree

59. Are you of Hispanic or Latino origin or descent?

- ¹ Yes, Hispanic or Latino
- ² No, not Hispanic or Latino

60. What is your race? Please mark one or more.

- ¹ White
- ² Black or African American
- ³ Asian
- ⁴ Native Hawaiian or Other Pacific Islander
- ⁵ American Indian or Alaskan Native
- ⁶ Other

THANK YOU

Please return the completed survey in the postage-paid envelope.

1. Overall, what questions did you have problems with? Please elaborate.

2. Was there anything else that was unclear or confusing to you, or anything that sounded strange?

Yes ---> Please describe

No

Thanks very much for all of your help. Here's an envelope with your compensation. I need you to sign this receipt form.

Before you go, do you have any questions?

Thanks again. This has been very, very helpful for us.

Encuesta CAHPS[®] sobre cirujanos

**Cuestionario de atención de cirugía
para adultos**

Round 2

Esta página se ha dejado en blanco intencionalmente

INSTRUCCIONES PARA EL CUESTIONARIO

- ◆ Conteste todas las preguntas marcando con una “x”, el cuadrito que aparece a la izquierda de la respuesta que usted elija: ☒.
- ◆ A veces hay que saltarse alguna pregunta. Cuando esto ocurra, una flecha a la derecha de la respuesta le indicará a qué pregunta hay que pasar. Por ejemplo:
 - Sí → ***Si contestó “Sí”, pase a la pregunta 1 en la página 1***
 - No

SU CIRUJANO

1. Cómo se llama el cirujano que le opero?

ANTES DE SU CIRUGÍA

2. ¿Su cirugía se programó tan pronto como usted lo necesitaba?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

3. ¿Este cirujano o su personal le dieron suficiente información sobre su cirugía antes de realizarla?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

4. ¿Le dio este cirujano o su personal instrucciones fáciles de entender sobre como prepararse para su cirugía?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

5. Antes de la cirugía, ¿llamó por teléfono al consultorio de este cirujano para hacer una pregunta médica?

- ¹ Sí
- ² No → Si contestó “No,” pase a la pregunta 7

6. Antes de la cirugía, cuando llamó por teléfono al consultorio de este cirujano, ¿le contestaron su pregunta médica tan pronto como lo necesitaba?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

7. Antes de la cirugía, ¿cuántas consultas tuvo con este cirujano?

- ¹ Ninguna → Si contestó “Ninguna,” pase a la pregunta 17
- ² 1 consulta
- ³ 2 consultas
- ⁴ 3 consultas
- ⁵ 4 o 6 consultas
- ⁶ 7 o más consultas

8. Durante las consultas previas a su cirugía, ¿habló con usted este cirujano para enterarse de información importante sobre su historia médica?

- ¹ Sí
- ² No

9. Durante las consultas previas a su cirugía, ¿le dijo este cirujano que había más de una manera de tratar su enfermedad o problema de salud?

- ¹ Sí
- ² No → Si contestó “No,” pase a la pregunta 12

10. Durante las consultas previas a su cirugía, ¿le preguntó este cirujano qué manera de tratar su enfermedad o problema de salud creía usted que le convenía más?

- ¹ Sí
- ² No

11. **Durante las consultas previas a su cirugía, ¿habló con usted este cirujano sobre los riesgos y beneficios de cada opción de tratamiento?**
- ¹ Sí
- ² No
12. **Durante las consultas previas a su cirugía, ¿le escuchó con atención este cirujano?**
- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no
13. **Durante las consultas previas a su cirugía, ¿pasó este cirujano suficiente tiempo con usted?**
- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no
14. **Durante las consultas previas a su cirugía, ¿le animó este cirujano a que usted le hiciera preguntas?**
- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no
15. **Durante las consultas previas a su cirugía, ¿le trató este cirujano con cortesía y respeto?**
- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

16. Antes de su cirugía, ¿el cirujano o su personal usaron diagramas, modelos, videos o algún otro material para explicarle las cosas?

- ¹ Sí
² No

SU CIRUGÍA

17. Después de llegar al hospital o al centro de cirugía, ¿le vio este cirujano antes de la cirugía?

- ¹ Sí
² No → Si contestó “No,” pase a la pregunta 19

18. ¿Esta visita le hizo sentirse más tranquilo y relajado?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

19. Después de ingresar al hospital o al centro de cirugía, ¿hubo alguna demora larga antes de que su cirugía comenzara?

- ¹ Sí
² No → Si contestó “No,” pase a la pregunta 21

20. ¿Le mantuvieron informado sobre cuánto tendría que esperar hasta que su cirugía comenzara?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

21. ¿Estuvo algún familiar o amigo en el edificio durante su cirugía?

- ¹ Sí
² No → Si contestó “No,” pase a la pregunta 23

22. ¿Habló este cirujano o un miembro del equipo de cirugía con sus familiares o amigos sobre su cirugía inmediate después de que terminara la cirugía?

- ¹ Sí
- ² No
- ³ No sé

23. Antes de que saliera del hospital o del centro de cirugía, ¿este cirujano le fue a ver y habló con usted sobre el resultado de su cirugía?

- ¹ Sí
- ² No → Si contestó “No,” pase a la pregunta 25

24. ¿Esta visita fue durante las primeras 24 horas después de su cirugía?

- ¹ Sí
- ² No

ANESTESIOLOGÍA

25. ¿Le dieron algo para que no sintiera dolor durante la cirugía?

- ¹ Sí
- ² No → Si contestó “No,” pase a la pregunta 33

26. ¿Quién hizo esto, un anesthesiólogo o le dio este cirujano algo para que no sintiera dolor durante la cirugía?

- ¹ Un anesthesiólogo lo hizo
- ² Este cirujano lo hizo → Si “Este cirujano lo hizo,” pase a la pregunta 33
- ³ No sé → Si “No sabe,” pase a la pregunta 33

27. ¿Este anesthesiólogo le animó a que usted le hiciera preguntas?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

28. ¿Le hizo usted alguna pregunta al anesthesiólogo?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 30

29. ¿Este anesthesiólogo respondió sus preguntas con claridad?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

30. Después de llegar al hospital o al centro de cirugía, ¿le vio este anesthesiólogo antes de su cirugía?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 32

31. ¿Le hizo sentirse más tranquilo y relajado hablar con este anesthesiólogo durante esta visita?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

32. Usando un número del 0 al 10, el 0 siendo el peor anestesiólogo posible y el 10 el mejor anestesiólogo posible, ¿qué número usaría para calificar a éste anestesiólogo?

- 0 El peor anestesiólogo posible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 El mejor anestesiólogo posible

DESPUÉS DE SU CIRUGÍA

33. ¿Este cirujano o su personal le explicaron qué debía esperar durante su tiempo de recuperación?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

34. ¿Este cirujano o su personal le advirtieron sobre qué signos o síntomas requerirían atención médica inmediata durante su tiempo de recuperación?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

35. **¿Le dio este cirujano o su personal instrucciones fáciles de entender sobre que hacer durante su recuperación?**
- ¹ Definitivamente sí
 - ² Un poco, sí
 - ³ No mucho, no
 - ⁴ Definitivamente no
36. **¿Se aseguró este cirujano de que usted se sintiera físicamente cómodo o tuviera un alivio adecuado del dolor después de salir de las instalaciones donde tuvo la cirugía?**
- ¹ Definitivamente sí
 - ² Un poco, sí
 - ³ No mucho, no
 - ⁴ Definitivamente no
37. **Después de su cirugía, ¿llamó por teléfono al consultorio de este cirujano para hacer alguna pregunta médica?**
- ¹ Sí
 - ² No → Si contestó “No,” pase a la pregunta 39
38. **Después de su cirugía, cuando llamó por teléfono al consultorio de este cirujano, ¿le contestaron su pregunta médica tan pronto como lo necesitaba?**
- ¹ Definitivamente sí
 - ² Un poco, sí
 - ³ No mucho, no
 - ⁴ Definitivamente no
39. **Después de su cirugía, ¿visito a este cirujano en el consultorio del cirujano o habló con este cirujano?**
- ¹ Sí
 - ² No → Si contestó “No,” pase a la pregunta 44

- 40. Después de su cirugía, ¿le escuchó con atención este cirujano?**
- ¹ Definitivamente sí
 - ² Un poco, sí
 - ³ No mucho, no
 - ⁴ Definitivamente no
- 41. Después de su cirugía, ¿pasó este cirujano suficiente tiempo con usted?**
- ¹ Definitivamente sí
 - ² Un poco, sí
 - ³ No mucho, no
 - ⁴ Definitivamente no
- 42. Después de su cirugía, ¿le animó a hacer preguntas este cirujano?**
- ¹ Definitivamente sí
 - ² Un poco, sí
 - ³ No mucho, no
 - ⁴ Definitivamente no
- 43. Después de su cirugía, ¿con qué frecuencia este cirujano le trató con cortesía y respeto?**
- ¹ Definitivamente sí
 - ² Un poco, sí
 - ³ No mucho, no
 - ⁴ Definitivamente no
- 44. Después de su cirugía, ¿cuántas veces visito el consultorio de este cirujano?**
- ¹ Ninguna
 - ² 1 consulta
 - ³ 2 consultas
 - ⁴ 3 consultas
 - ⁵ 4 a 6 consultas
 - ⁶ 7 o más consultas

EL PERSONAL DEL CONSULTORIO DE ESTE CIRUJANO

45. ¿Le dio el personal del consultorio de este cirujano toda la ayuda que usted creía que debían darle?

- 1 Definitivamente sí
- 2 Un poco, sí
- 3 No mucho, no
- 4 Definitivamente no

46. ¿Le trató el personal del consultorio de este cirujano con cortesía y respeto?

- 1 Definitivamente sí
- 2 Un poco, sí
- 3 No mucho, no
- 4 Definitivamente no

ATENCIÓN GENERAL QUE RECIBIÓ DE ESTE CIRUJANO

47. ¿Se dio cuenta de si hubo algún error médico en su tratamiento?

- 1 Sí
- 2 No → Si contestó “No,” pase a la pregunta 50

48. ¿Estos errores le causaron algún problema significativo respecto al tratamiento o su problema de salud?

- 1 Definitivamente sí
- 2 Un poco, sí
- 3 No mucho, no
- 4 Definitivamente no

49. ¿Este cirujano le explicó cómo ocurrió el error?

- 1 Sí
- 2 No

50. ¿Comprobó este cirujano que usted entendiera todo?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

51. ¿Siente que este cirujano realmente se preocupó por usted como persona?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

52. Usando un número del 0 al 10, el 0 siendo el peor cirujano posible y el 10 el mejor cirujano posible, ¿qué número usaría para calificar a éste cirujano?

- 0 **El peor cirujano posible**
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 **El mejor cirujano posible**

53. ¿Los resultados de esta cirugía fueron tan buenos como lo esperaba o mejores?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

SOBRE USTED

54. En general, ¿cómo calificaría toda su salud?

- ¹ Excelente
- ² Muy buena
- ³ Buena
- ⁴ Regular
- ⁵ Mala

55. ¿Qué edad tiene?

- ¹ 18 a 24 años
- ² 25 a 34
- ³ 35 a 44
- ⁴ 45 a 54
- ⁵ 55 a 64
- ⁶ 65 a 74
- ⁷ 75 años o más

56. ¿Es usted hombre o mujer?

- ¹ Hombre
- ² Mujer

57. Sin contar esta cirugía, ¿aproximadamente cuántas cirugías más ha tenido?

- ¹ Ninguna
- ² 1 cirugía
- ³ 2 cirugías
- ⁴ 3 a 5 cirugías
- ⁵ 6 a 9 cirugías
- ⁶ 10 o más cirugías

58. ¿Cuál es el grado o nivel escolar más alto que ha completado?

- 1 8 años de escuela o menos
- 2 9 a 12 años de escuela, pero sin graduarse
- 3 Graduado de la escuela secundaria (*high school*), Diploma de escuela secundaria, preparatoria, o su equivalente (o GED)
- 4 Algunos cursos universitarios o un título universitario de un programa de 2 años
- 5 Título universitario de 4 años
- 6 Título universitario de más de 4 años

59. ¿Es usted de origen o ascendencia hispana o latina?

- 1 Sí, hispano o latino
- 2 No, ni hispano ni latino

60. ¿A qué raza pertenece? Por favor marque una o más.

- 1 Blanca
- 2 Negra o afroamericana
- 3 Asiática
- 4 Nativa de Hawai o de otras islas del Pacífico
- 5 Indígena americana o nativa de Alaska
- 6 Otra

GRACIAS

Cuando haya completado el cuestionario, por favor devuélvalo en el sobre con porte o franqueo pagado.

Encuesta CAHPS[®] sobre cirujanos
Cuestionario de atención de cirugía
para adultos

[Spanish Version 2nd Round]

Cognitive Testing Protocol
March 17, 2008

Introducción

Como le mencioné, antes de diseminar estas encuestas a la población, preferimos que unas personas las contesten para que encontremos problemas y puntos de confusión. Para lograr esto, pedimos que usted conteste las preguntas y también que nos diga en voz alta lo que está pensando cuando contesta cada pregunta.

Como pensar en voz alta no es una práctica común, le daré un ejemplo de que quiero decir.
[Model the behavior]

1. Uso de teléfono la semana pasada.

Suponga que alguien me pregunte, “**¿Cuántas horas habló por teléfono durante la semana pasada?**” [MUESTRE EL PAPELITO AL PARTICIPANTE.]

Yo diría:

Primero, necesito pensar en cuántas horas uso el teléfono en mi casa. A ver, les llamo a mi mamá y papá una vez a la semana y hablamos 1 hora. También hablo con amigos...por probablemente 2 horas cada semana. Sin embargo, la semana pasada fue el cumpleaños de una amiga y planeamos una fiesta para ella.

Entonces, es probable que en vez de 2 pasara como cuatro horas hablando con amigos la semana pasada. También uso el teléfono para el Internet y correo electrónico, pero no pienso que sea “hablar” por teléfono, así que no voy a contar esas horas. OK, son 5 total en la casa.

En mi trabajo, paso mucho tiempo hablando por teléfono; yo diría más o menos 2 horas cada día. También estuve por teléfono en una conferencia, pero no hablé, solamente les escuché a los presentadores. Entonces, son 10 horas total en el trabajo, 5 en casa.

[Add up the numbers and present the answer]

Probablemente pasé 15 horas por teléfono la semana pasada.

[Pide que el participante haga lo mismo con la pregunta en el papelito.]

***If the participant doesn't seem to "get it," hand them the second question, "How many windows are in your home?" and ask them to answer it.*

¿Tiene alguna pregunta?

Bueno, comencemos. Conteste las preguntas como haría si usted recibió esta encuesta por correo y yo no estaba aquí. Recuerde pensar en voz alta cuando lee y contesta las preguntas para que yo sepa que está pensando. A veces le preguntaré unas cosas para comprender o clarificar lo que piensa de una pregunta.

2. Número de ventanas en su casa.

Le daré otro ejemplo de que quiero decir. Suponga que alguien me pregunte, “¿**Cuántas ventanas tiene la casa o apartamento en el cual usted vive?**” [MUESTRE EL PAPELITO AL PARTICIPANTE.]

[Model the behavior] Yo diría:

Bueno, para mí es más fácil pensar en cuántas ventanas hay en cada cuarto. Mi casa tiene cinco cuartos—una cocina, un baño, dos dormitorios, y una salón. En mi dormitorio, hay tres—dos que están en una pared y una pequeña en la otra pared. En el otro dormitorio hay dos más. Se puede contarlas como una sola, porque están juntas, pero yo prefiero pensar que son dos ventanas separadas.

En el salón hay una grande, pero es una puerta de vidrio, entonces no sé si califica como “ventana.” Yo pienso que sería mejor contarla como una puerta. En el baño hay una pequeña, y no hay ventanas en la cocina.

[Add up the numbers and present the answer]

Entonces, voy a decir que la casa tiene 6—3 en un dormitorio, 2 en el segundo dormitorio, y una en el baño.

[Pide que el participante haga lo mismo con la pregunta en el papelito.]

¿Tiene alguna pregunta?

Bueno, comencemos. Conteste las preguntas como haría si usted recibió esta encuesta por correo y yo no estaba aquí. Recuerde pensar en voz alta cuando lee y contesta las preguntas para que yo sepa que está pensando. A veces le preguntaré unas cosas para comprender o clarificar lo que piensa de una pregunta.

SU CIRUJANO

1. **Cómo se llama el cirujano que le opero?**

ANTES DE SU CIRUGÍA

2. ¿Su cirugía se programó tan pronto como usted lo necesitaba?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

Goal:

- Determine if respondents are using "reasonable" criteria for determining their need for the surgery to be scheduled when it was scheduled.
- PROBE on RESPONSE SCALE and ALTERNATE WAYS OF SAYING IT

¿Por qué dijo [RESPONSE] en vez de [RESPONSE±1]?

¿Cuándo se programó la cirugía? ¿Recuerda la fecha en que se programó?

¿Fue tan pronto como usted quería o no?

3. ¿Este cirujano o su personal le dieron suficiente información sobre su cirugía antes de realizarla?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine how respondents who don't want information answer this question.

¿Aproximadamente cuánta información quería usted acerca de su cirugía?

¿Cree que obtuvo esa cantidad de información o no?

IF INCONSISTENT WITH THEIR RESPONSE TO Q.19, SAY: Entonces, ¿puede explicarme un poco más por qué dijo [RESPONSE TO Q. 19]?

****PROBE:** *realizarla*

¿Qué significa para usted “realizar” una cirugía?

¿Alguna gente dice “hacer una cirugía,” significa lo mismo que “realizarla?”

¿Qué frase usa usted más frecuentemente: “realizar” una cirugía o “hacer” una cirugía?

4. ¿Le dio este cirujano o su personal instrucciones fáciles de entender sobre como prepararse para su cirugía?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

Goal:

- Determine if 'getting ready for surgery' is interpreted consistently.
- Determine if scale is working as intended.

¿Qué cree que quieren decir con “instrucciones sobre cómo prepararse para la cirugía”? Puede darme ejemplos de estas instrucciones?

¿Por qué eligió [RESPONSE] en vez de [RESPONSE±1]?

5. **Antes de la cirugía, ¿llamó por teléfono al consultorio de este cirujano para hacer una pregunta médica?**

¹ Sí

² No → **Si contestó “No,” pase a la pregunta 7**

Goal:

- Determine if 'medical question' is interpreted as intended.

¿Qué cree que quieren decir con “pregunta de tipo médico”? ¿Puede darme ejemplos?

IF YES: ¿Qué preguntas de tipo médico tenía cuando llamó?

6. Antes de la cirugía, cuando llamó por teléfono al consultorio de este cirujano, ¿le contestaron su pregunta médica tan pronto como lo necesitaba?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if scale is appropriate for this question.
- See if respondents with only one question have problems with this item
- Determine how respondent makes judgment about whether the answer was "as soon as needed."

¿Qué cree que quieren decir con "tan pronto como usted lo necesitaba"?

¿Aproximadamente cuántas veces llamó para hacer preguntas de tipo médico?

¿Y aproximadamente cuántas veces obtuvo respuestas tan pronto como las necesitaba?

IF RESPONSES APPEAR INCONSISTENT WITH ANSWER TO Q.6, PROBE TO DETERMINE REASON FOR DISCREPANCY.

7. Antes de la cirugía, ¿cuántas consultas tuvo con este cirujano?

- ¹ Ninguna → **Si contestó “Ninguna,” pase a la pregunta 17**
- ² 1 consulta
- ³ 2 consultas
- ⁴ 3 consultas
- ⁵ 4 o 6 consultas
- ⁶ 7 o más consultas

Goal:

- Determine if all visits are being included or just visits related to this surgery.

¿Cree usted que están preguntando sobre todas las consultas que una persona ha tenido en total con su cirujano o sólo sobre las consultas relacionadas con esta cirugía en particular?

¿Por qué?

8. Durante las consultas previas a su cirugía, ¿habló con usted este cirujano para enterarse de información importante sobre su historia médica?

¹ Sí

² No

Goal:

- Determine if "important things in your medical history" is being interpreted consistently and properly.
- Determine if discussions with the surgeon's staff are being included.
- Determine if there are appropriate reasons for these discussions to NOT have been conducted.

*¿Qué cree que quieren decir con “**información** importantes en su historia médica”? ¿Puede darme ejemplos de "cosas importantes" en la historia clínica de una persona?*

*IF YES: Cuénteme más acerca de la charla que este cirujano tuvo con usted para averiguar **información** de su historia médica. ¿De qué cosas hablaron?*

¿Quién hizo esto, el cirujano, su personal o ambos?

IF NO: ¿Por qué no?

9. Durante las consultas previas a su cirugía, ¿le dijo este cirujano que había más de una manera de tratar su enfermedad o problema de salud?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 12

Goal:

- Determine how “enfermedad o problema de salud” is interpreted.

IF YES: Cuénteme acerca de las diferentes maneras de tratar su enfermedad o problema de salud que discutieron.

¿Se refiere esta pregunta a la opción de hacerse o no hacerse la cirugía, o se refiere a otra cosa? IF SOMETHING ELSE: ¿Qué otra cosa?

10. Durante las consultas previas a su cirugía, ¿le preguntó este cirujano qué manera de tratar su enfermedad o problema de salud creía usted que le convenía más?

¹ Sí

² No

Goal:

- Determine if respondents are interpreting this item literally (i.e., the surgeon asking "Which way to treat your condition do you think is best for you?").

IF NO: ¿Por qué cree usted que el cirujano no le preguntó qué manera de tratar su enfermedad o problema de salud creía usted que le convenía más?

¿Cómo sabía el cirujano qué manera de tratar su enfermedad o problema de salud prefería usted?

IF YES: ¿Cómo hizo esto el cirujano? ¿Cómo averiguó el cirujano manera de tratar su enfermedad o problema de salud creía usted que le convenía más?

11. Durante las consultas previas a su cirugía, ¿habló con usted este cirujano sobre los riesgos y beneficios de cada opción de tratamiento?

¹ Sí

² No

Goal:

- Determine if "risks and benefits" is interpreted correctly.
- Determine if talks with staff are being included.

IF YES: Hábleme de esto. ¿De qué hablaron?

¿Tuvo estas conversaciones con el cirujano, con su personal o con ambos?

IF NO: ¿Por qué no?

¿Qué cree que quieren decir con “riesgos y beneficios de sus opciones de tratamiento”? Deme (otros) ejemplos de esto.

12. Durante las consultas previas a su cirugía, ¿le escuchó con atención este cirujano?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

Goal:

- Determine if this scale is working properly.
- Determine if respondents can make appropriate judgments about the surgeon's attentiveness.

¿Qué cree que quieren decir con “escucharlo con atención”? Es decir, ¿qué dijo o hizo el cirujano que indicara que le estaba escuchando con atención?

¿Por qué eligió [RESPONSE] en vez de [RESPONSE+1]?

NOTE RESPONSE TO THIS QUESTION SO YOU CAN COMPARE IN Q40.

13. Durante las consultas previas a su cirugía, ¿pasó este cirujano suficiente tiempo con usted?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

Goal:

- Determine if this scale is working properly.
- Determine if respondents can make appropriate judgments about spending enough time.

¿Qué cree que quieren decir con “pasar suficiente tiempo con usted”?

Entonces, ¿aproximadamente cuántas consultas me dijo que tuvo antes de la cirugía?

¿Y en cuántas de estas consultas el cirujano pasó suficiente tiempo con usted?

IF RESPONSE IS INCONSISTENT, PROBE TO DETERMINE REASON FOR INCONSISTENCY.

14. Durante las consultas previas a su cirugía, ¿le animó este cirujano a que usted le hiciera preguntas?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

Goal:

- Determine if this scale is appropriate.
- Determine if respondents can make appropriate judgments about whether the surgeon encouraged questions.

¿Qué cree que quieren decir con “animarlo a hacer preguntas”? Es decir, ¿qué puede decir o hacer un cirujano para animarlo a hacer preguntas?

¿Por qué eligió [RESPONSE] en vez de [RESPONSE_{±1}]?

15. Durante las consultas previas a su cirugía, ¿le trató este cirujano con cortesía y respeto?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if this scale is working properly.
- Determine if respondents can make appropriate judgments about courtesy and respect.

¿Qué hizo o dijo el cirujano que le hiciera sentir que lo estaba tratando con cortesía y respeto durante estas consultas?

¿Por qué eligió [RESPONSE] en vez de [RESPONSE+1]?

NOTE RESPONSE TO THIS QUESTION SO YOU CAN COMPARE IN Q43.

16. Antes de su cirugía, ¿el cirujano o su personal usaron diagramas, modelos, videos o algún otro material para explicarle las cosas?

¹ Sí

² No

Goal:

- Determine if there are appropriate reasons for a negative response.

IF YES: ¿Cómo lo hicieron?

IF NO: ¿Por qué no?

¿Usted quería que le explicaran las cosas o no?

SU CIRUGÍA

17. Después de llegar al hospital o al centro de cirugía, ¿le vio este cirujano antes de la cirugía?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 19

Goal:

- Determine how the respondent interprets "visit."
- See if patients who had in-office surgery have problems answering this item.

IF NO TO Q.17: ¿Cuándo vio al cirujano por primera vez el día de la cirugía? Hábleme un poco de eso.

¿Eso era lo que usted esperaba o no? ¿Por qué?

¿Vio a alguien del personal del cirujano o del equipo el día de su cirugía, antes del procedimiento? IF YES: ¿A quién?

**** PROBE:** *centro de cirugía*

¿Qué cree que quieren decir con “centro de cirugía?” ¿Puede darme un ejemplo de un “centro de cirugía?”

18. ¿Esta visita le hizo sentirse más tranquilo y relajado?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

Goal:

- Determine if scale is appropriate
- Determine how the respondent interprets "visit."

Cuénteme más sobre esta visita.

¿Dónde estaba usted cuando el cirujano le visitó?

¿Cuándo fue esto?

Entonces, ¿por qué eligió [RESPONSE] en vez de [RESPONSE±1]?

19. Después de ingresar al hospital o al centro de cirugía, ¿hubo alguna demora larga antes de que su cirugía comenzara?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 21

Goal:

- Determine if "long delays" is consistently interpreted.

¿Aproximadamente cuánto tiempo tuvo que esperar después de ingresar para que comenzara la cirugía?

¿Y qué cree que quieren decir con “demora larga”? Es decir, ¿qué tan larga es una “demora larga”?

***PROBE: demora larga*

¿Qué significa para usted una “demora larga?”

¿Alguna gente dice un “retraso largo,” significa lo mismo que “demora larga?”

¿Qué frase usa usted más frecuentemente: hubo una “demora larga” o hubo un “retraso largo?”

20. ¿Le mantuvieron informado sobre cuánto tendría que esperar hasta que su cirugía comenzara?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

Goal:

- Determine if scale is appropriate

IF NOT "DEFINITELY NO": Cuénteme. Es decir, ¿quiénes le mantuvieron informadoa?

¿Con qué frecuencia le dijeron?

¿Por qué eligió [RESPONSE] en vez de [RESPONSE+1]?

21. ¿Estuvo algún familiar o amigo en el edificio durante su cirugía?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 23

Goal:

- Determine if 'in the building' is interpreted correctly.

¿Qué cree que quieren decir con “en el edificio”?

IF NO: ¿Quería tener amigos o familiares cerca durante la cirugía?

IF YES: ¿Cuánto tiempo estuvieron ellos en el edificio?

22. ¿Habló este cirujano o un miembro del equipo de cirugía con sus familiares o amigos sobre su cirugía inmediate después de que terminara la cirugía?

¹ Sí

² No

³ No sé

Goal:

- See if there were any confidentiality problems related to HIPAA.
- Determine how people who do not want this information shared respond to the question.
- Determine how “immediately after the surgery was over” is interpreted.

Que cree que quieren decir con “inmediate después de que terminara la cirugía?”

IF YES: Cuénteme más sobre esto. ¿Quién les habló sobre la cirugía? ¿Qué dijeron?

¿Usted quería que ellos hablaran de la cirugía con sus familiares o amigos, o no?

IF NO OR DON'T KNOW: ¿Usted quería que ellos hablaran de la cirugía con sus familiares o amigos, o no? ¿Por qué (no)?

23. Antes de que saliera del hospital o del centro de cirugía, ¿este cirujano le fue a ver y habló con usted sobre el resultado de su cirugía?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 25

Goal:

- Determine if respondent is aware of visit.
- Determine if 'outcome of surgery' is interpreted as intended.
- Determine how people who did not stay overnight answer this question.

¿Qué cree que quieren decir con “hablar sobre el resultado de la cirugía”?

IF YES: Cuénteme sobre esta visita o visitas.

IF NO: ¿Alguien del personal del cirujano le visitó para hablar del resultado de la cirugía antes de que usted se fuera del centro de cirugía?

Sí --> Cuénteme sobre esta visita.

No --> ¿Por qué no?

¿Aproximadamente cuánto tiempo permaneció en el centro de cirugía?

24. ¿Esta visita fue durante las primeras 24 horas después de su cirugía?

¹ Sí

² No

Goal:

- Determine if heavily sedated patients can answer this question.

IF YES: ¿Qué pasó durante esta visita?

IF NO: ¿Qué tanta certeza tiene de que el cirujano no trató de visitarlo durante este tiempo?

ANESTESIOLOGÍA

25. ¿Le dieron algo para que no sintiera dolor durante la cirugía?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 33

Goal:

- Determine if anesthesia is interpreted as intended.

IF NO: ¿Le dieron algo para dormirlo durante la cirugía o no?

Sí --> Y esto es diferente de que le dieran algo para que no sintiera dolor porque....

No --> ¿Por qué no?

26. ¿Quién hizo esto, un anestesiólogo o le dio este cirujano algo para que no sintiera dolor durante la cirugía?

¹ Un anestesiólogo lo hizo

² Este cirujano lo hizo → Si “Este cirujano lo hizo,” pase a la pregunta 33

³ No sé → Si “No sabe,” pase a la pregunta 33

Goal:

- Determine if respondent is capable of determining who provided anesthesiology

IF ANESTHESIOLOGIST OR SURGEON: ¿Cómo lo sabe?

IF DON'T KNOW: Si tuviera que adivinar, ¿cómo respondería esta pregunta?

27. ¿Este anestesiólogo le animó a que usted le hiciera preguntas?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if respondent is using reasonable criteria in deciding whether or not the anesthesiologist encouraged questioning.
- Determine how respondents who do not want to ask questions answer this item.

IF DEFINITELY/SOMEWHAT YES: ¿Cómo le animó el anestesiólogo? Es decir, ¿qué hizo o dijo el anestesiólogo que indicara que quería que usted le hiciera preguntas?

IF DEFINITELY/SOMEWHAT NO: ¿Qué hizo o dijo el anestesiólogo que indicara que NO quería que usted le hiciera preguntas?

****PROBE: Response Scale**

¿Por qué escogió [RESPONSE] en vez de [RESPONSE±1]?

IF DEFINITIVAMENTE SÍ: ¿Qué tendría que hacer el anestesiólogo para que usted contestara “Un poco, si?”

IF UN POCO, SÍ: ¿Qué tendría que hacer el anestesiólogo para que usted contestara “No mucho, no?”

IF NO MUCHO, NO: ¿Qué tendría que hacer el anestesiólogo para que usted contestara “Definitivamente no?”

IF DEFINITIVAMENTE NO: ¿Qué tendría que hacer el anestesiólogo para que usted contestara “Definitivamente si?”

28. ¿Le hizo usted alguna pregunta al anesthesiólogo?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 30

Goal:

- Verify that "questions" are being interpreted to mean "medical questions."

IF YES: ¿Qué le preguntó?

IF NO: ¿Por qué no?

¿Qué cree que quieren decir con “alguna pregunta”? Es decir, ¿les interesan solamente las preguntas sobre anestesiología o les interesan otros tipos de preguntas. IF OTHER: ¿Qué tipos de preguntas?

29. ¿Este anesthesiólogo respondió sus preguntas con claridad?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

Goal:

- Determine if scale is appropriate.

¿Por qué dijo [RESPONSE] en vez de [RESPONSE±1]?

30. Después de llegar al hospital o al centro de cirugía, ¿le vio este anesthesiólogo antes de su cirugía?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 33

Goal:

- Confirm that respondent is not reporting other visits with the anesthesiologist.

IF YES: Hábleme sobre esta visita.

¿Qué pasó?

¿Cuánto duró?

¿Qué hizo o dijo el anesthesiólogo?

IF NO: ¿Vio a este anesthesiólogo alguna vez antes de la cirugía o no?

IF NO: ¿Vio a alguna persona para hablar acerca de anestesiología antes de la cirugía?

31. ¿Le hizo sentirse más tranquilo y relajado hablar con este anestesiólogo durante esta visita?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if scale is working properly.

¿Qué tan tranquilo y relajado estaba usted antes de esta visita?

Y, ¿qué tan tranquilo y relajado estaba después de esta visita?

IF RESPONSES TO PROBE ARE INCONSISTENT WITH RESPONSE TO ITEM, SAY: Estoy un poco confundido. Usted dijo [RESPONSE TO Q.16], que la visita le hizo sentirse más tranquilo y relajado. Y dijo que antes de esta visita se sintió [RESPONSE TO FIRST PROBE]. Y que después de esta visita se sintió [RESPONSE TO SECOND PROBE]. ¿Puede explicarme un poco más?

32. Usando un número del 0 al 10, el 0 siendo el peor anesthesiólogo posible y el 10 el mejor anesthesiólogo posible, ¿qué número usaría para calificar a éste anesthesiólogo?

- 0 El peor anesthesiólogo posible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 El mejor anesthesiólogo posible

Goal:

- Determine if scale is appropriate and that respondent is using reasonable criteria for making a judgment.

¿Cómo llegó a esta conclusión? ¿En qué estaba pensando?

IF NOT '3': ¿Cómo sería un anesthesiólogo que recibiera una calificación de 3?

IF NOT '7': ¿Y uno que recibiera una calificación de 7? ¿Qué diría o haría un anesthesiólogo como ese?

DESPUÉS DE SU CIRUGÍA

33. ¿Este cirujano o su personal le explicaron qué debía esperar durante su tiempo de recuperación?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if "explain what to expect during your recovery period" is consistently interpreted and if it is interpreted similarly to "how well prepared were you."

¿Cómo le explicaron el cirujano o su personal qué debía esperar?

¿Qué tanto le sirvió esto para prepararse para su recuperación?

34. ¿Este cirujano o su personal le advirtieron sobre qué signos o síntomas requerirían atención médica inmediata durante su tiempo de recuperación?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if scale is appropriate (that is, should it be dichotomous?)
- Determine how "warn you" is interpreted.
- Determine how "recovery period" is interpreted

¿A que se refiere "su tiempo de recuperación?" ¿Que cree que quiere decir eso?

¿Cuándo empezó su tiempo de recuperación?

¿Y cuándo termino su tiempo de recuperación? O todavía esta en su tiempo de recuperación? Porque dice eso?

IF NOT "DEFINITELY NO": ¿Cómo le advirtieron sobre estos signos o síntomas?

¿Darle materiales en los que se enumeren signos o síntomas de alerta sería lo mismo que advertirle sobre los signos y síntomas que requieren atención inmediata? ¿O tendrían que pasar un tiempo hablando de esto con usted?

¿Por qué?

*IF SOMEWHAT YES, ASK DEFINITELY YES
IF SOMEWHAT NO, ASK DEFINITELY NO
IF DEFINITELY YES, ASK SOMEWHAT YES
IF DEFINITELY NO, ASK SOMEWHAT NO*

¿Por qué eligió [RESPONSE] en vez de [ALTERNATE RESPONSE]?

35. ¿Le dio este cirujano o su personal instrucciones fáciles de entender sobre que hacer durante su recuperación?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

Goal:

- Determine whether instructions are being interpreted consistently (oral, written, or either.)

IF NOT DEFINITELY NO: Hábleme de estas instrucciones.

¿Cree que se refieren a instrucciones verbales, a instrucciones escritas, a ambos tipos de instrucciones o a otra cosa?

¿Por qué?

36. ¿Se aseguró este cirujano de que usted se sintiera físicamente cómodo o tuviera un alivio adecuado del dolor después de salir de las instalaciones donde tuvo la cirugía?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

Goal:

- Determine if question is being interpreted as asking about adequacy of pain management post-release.

¿Puede decirme en sus propias palabras a qué cree que se refiere esta pregunta?

¿Qué cree que quieren decir con “instalaciones donde tuvo la cirugía”? ¿Me puede dar algún ejemplo de este tipo de instalación?

¿Cómo supo qué responder a esta pregunta?

37. Después de su cirugía, ¿llamó por teléfono al consultorio de este cirujano para hacer alguna pregunta médica?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 39

Goal:

- Determine if respondent contacted the surgeon's office with questions in any other way.

IF NO: ¿Tenía alguna pregunta de tipo médico después de la cirugía?

IF YES: ¿Cómo trató de que le respondieran estas preguntas? ¿O no trató?

IF YES TO THIS QUESTION, NOTE SO YOU CAN ASK PROBE IN Q39.

38. Después de su cirugía, cuando llamó por teléfono al consultorio de este cirujano, ¿le contestaron su pregunta médica tan pronto como lo necesitaba?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

Goal:

- Determine how "as soon as you needed" differs from "as soon as you wanted."

Hábleme de esto. ¿Cómo se comunicó con el consultorio del cirujano?

¿Qué pasó?

¿Y cuánto tiempo tardó en obtener una respuesta?

¿Qué tan rápidamente necesitaba una respuesta?

¿Qué diferencia hay entre obtener una respuesta tan pronto como la necesitaba y obtener una respuesta tan pronto como usted quería?

39. Después de su cirugía, ¿visito a este cirujano en el consultorio del cirujano o habló con este cirujano?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 44

Goal:

- Determine if people who responded affirmatively to question 37 are confused
- Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

IF YES TO Q37: ¿De qué manera, si hay alguna, es diferente esta pregunta a la pregunta numero 37? O son iguales? Porque?

40. Después de su cirugía, ¿le escuchó con atención este cirujano?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if this scale is working properly.
- Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

¿Por qué eligió[RESPONSE] en vez de [RESPONSE±1]?

COMPARE WITH RESPONSE TO QUESTION 12. ¿Cree que había una diferencia en la atención con que el cirujano le escuchó después de la cirugía y la atención con que le escuchó antes de la cirugía, o no?

*IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS, PROBE:
Estoy un poco confundido. ¿Puede explicarme un poco más?*

41. Después de su cirugía, ¿pasó este cirujano suficiente tiempo con usted?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

Goal:

- Determine if this scale is working properly.

¿Cómo decidió qué responder?

42. Después de su cirugía, ¿le animó a hacer preguntas este cirujano?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if scale is appropriate.
- Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

¿Cómo supo qué responder?

COMPARE WITH RESPONSE TO QUESTION 14. ¿Cree que había una diferencia en la frecuencia en que el cirujano le animó a hacer preguntas después de la cirugía y la frecuencia en que lo hizo antes de la cirugía, o no?

*IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS, PROBE:
Estoy un poco confundido. ¿Puede explicarme un poco más?*

43. Después de su cirugía, ¿con qué frecuencia este cirujano le trató con cortesía y respeto?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if scale is appropriate.
- Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

¿Cómo supo qué responder?

COMPARE WITH RESPONSE TO QUESTION 15. ¿Cree usted que hay una diferencia en la frecuencia con que el cirujano le trató con cortesía y respeto antes de la cirugía comparado a después de la cirugía?

*IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS, PROBE:
Estoy un poco confundido. ¿Puede explicarme un poco más?*

44. Después de su cirugía, ¿cuántas veces visito el consultorio de este cirujano?

- ¹ Ninguna
- ² 1 consulta
- ³ 2 consultas
- ⁴ 3 consultas
- ⁵ 4 a 6 consultas
- ⁶ 7 o más consultas

Goal:

- Determine respondent's ability to estimate the number of post-surgical visits
- Determine whether visits for physical therapy or other types of therapy are being counted.

¿Cómo llegó a esta conclusión?

¿Qué tan seguro está de su respuesta?

Cuenteme de estas visitas. Quiero decir, ¿además del cirujano, que otras personas le previeron atención medica a usted?

EL PERSONAL DEL CONSULTORIO DE ESTE CIRUJANO

45. ¿Le dio el personal del consultorio de este cirujano toda la ayuda que usted creía que debían darle?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine criteria used to determine if staff are helpful.
- Determine if scale is appropriate.
- See if anyone is NOT included as staff

¿Qué cree que quieren decir con "le dieron toda la ayuda que usted creía que debían darle?"

¿En quién estaba pensando cuando respondió esto?

IF NOT MENTIONED: ¿Pensó usted de la recepcionista? Por que?

IF NOT DEFINITELY YES: Entonces, ¿por qué eligió [RESPONSE]?

IF DEFINITELY YES: ¿Siempre eran así con usted o no?

46. ¿Le trató el personal del consultorio de este cirujano con cortesía y respeto?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine criteria respondents use to determine if clerks and receptionists treat them with courtesy and respect.
- See if any staff are not included

¿Qué pueden hacer los miembros del personal de oficina y las recepcionistas para mostrar que lo están tratando con cortesía y respeto? ¿Qué otra cosa?

¿En quién estaba pensando cuando respondió esta pregunta?

IF NOT MENTIONED: ¿Pensó usted de la recepcionista? Por que?

ATENCIÓN GENERAL QUE RECIBIÓ DE ESTE CIRUJANO
--

47. ¿Se dio cuenta de si hubo algún error médico en su tratamiento?

¹ Sí

² No → Si contestó “No,” pase a la pregunta 50

Goal:

- Determine if "medical mistakes" is interpreted consistently.

¿Qué cree que quieren decir con “error médico en su tratamiento”?

¿Qué cosa sería un error médico grande?

¿Qué cosa sería un error médico pequeño?

Entonces, ¿cree que están preguntando acerca de cualquier error médico o sólo acerca de los errores médicos grandes? ¿O están preguntando otra cosa?

¿Por qué?

48. ¿Estos errores le causaron algún problema significativo respecto al tratamiento o su problema de salud?

- 1 Definitivamente sí
- 2 Un poco, sí
- 3 No mucho, no
- 4 Definitivamente no

Goal:

- Determine if scale is working properly.
- Determine how "significant problems" is interpreted.

¿Estos errores causaron ALGÚN problema significativo en su enfermedad o tratamiento, o no?

IF YES: Hábleme de esto.

¿Cuáles de estos problemas, si los hubo, fueron importantes?

****PROBE: significativo**

¿Qué significa para usted algo “significativo?”

¿Alguna gente dice “importante,” significa lo mismo que “significativo?”

¿Qué palabra usa usted más frecuentemente: “significativo” o “importante?”

49. ¿Este cirujano le explicó cómo ocurrió el error?

¹ Sí

² No

Goal:

- Determine if scale is appropriate or if respondents want to make finer distinctions.

IF YES: Hábleme más de esto. ¿Cuándo sucedió?

¿Qué le dijo este cirujano... o fue que otra persona le explicó?

¿Qué tan bien entendió usted la explicación?

IF NO: ¿Por qué no? Es decir, ¿por qué cree que el cirujano no le habló de esto?

50. ¿Comprobó este cirujano que usted entendiera todo?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine if respondents are aware of whether and how a surgeon can check for comprehension.
- Determine if scale is appropriate.
- Check to see if this item disrupts the “flow” of the questionnaire.

¿Qué puede hacer o decir un cirujano para comprobar que usted entiende todo?

IF NOT “SOMEWHAT NO”: Si alguien responde “no mucho,no” a esta pregunta, ¿qué significa eso?

¿En qué se diferencia eso de “Un poco, si”?

IF “SOMEWHAT NO”: Si alguien responde “Un poco, si” a esta pregunta, ¿qué significa eso?

¿En qué se diferencia eso de “no mucho,no”?

51. **¿Siente que este cirujano realmente se preocupó por usted como persona?**

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine criteria used in determining whether a surgeon really cares about you.
- Determine if scale is working properly.

¿Qué puede decir o hacer un cirujano para mostrar que realmente se preocupa por usted como persona? ¿Qué otra cosa?

¿Creé usted que un cirujano debe de preocuparse por usted como persona? ¿Por qué (no)?

IF NOT “SOMEWHAT YES”: Si alguien responde “un poco, sí” a esta pregunta, ¿qué significa eso?

¿En qué se diferenciaría eso de “un poco, no”?

IF “SOMEWHAT YES”: Si alguien responde “No mucho, no” a esta pregunta, ¿qué significa eso?

¿En qué se diferenciaría eso de “un poco, sí”?

52. Usando un número del 0 al 10, el 0 siendo el peor cirujano posible y el 10 el mejor cirujano posible, ¿qué número usaría para calificar a éste cirujano?

- 0 El peor cirujano posible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 El mejor cirujano posible

Goal:

- Determine if respondent is using reasonable and appropriate criteria in making a judgment.

IF 8 OR LESS: ¿Qué tendría que hacer este cirujano para que usted le diera una calificación más alta, por ejemplo, para que le diera un 9?

IF 9 OR 10: ¿Qué le haría bajar la calificación de este cirujano a un 8? Es decir, ¿qué podría este cirujano hacer o decir para que usted le bajara la calificación?

IF NOT 5: ¿Y cómo sería un cirujano que reciba una calificación de 5?

53. ¿Los resultados de esta cirugía fueron tan buenos como lo esperaba o mejores?

- ¹ Definitivamente sí
² Un poco, sí
³ No mucho, no
⁴ Definitivamente no

Goal:

- Determine surgeon's role in establishing expectations.
- Determine how expectations are created and if they are "realistic."

¿Qué expectativas tenía usted respecto a los resultados de esta cirugía?

¿Qué hizo que se sintiera así? Es decir, ¿qué leyó o qué le dijo la gente para que se sintiera así?

¿Y qué (más) dijo o hizo el cirujano para que usted esperara estos resultados?

SOBRE USTED

54. En general, ¿cómo calificaría toda su salud?

- 1 Excelente
- 2 Muy buena
- 3 Buena
- 4 Regular
- 5 Mala

Goal:

- Determine the comparison group being used in making this judgment.

Cuando usted dijo [RESPONSE], ¿con quién se estaba comparando? Es decir, ¿con qué tipo de personas se estaba comparando?

55. ¿Qué edad tiene?

- ¹ 18 a 24 años
- ² 25 a 34
- ³ 35 a 44
- ⁴ 45 a 54
- ⁵ 55 a 64
- ⁶ 65 a 74
- ⁷ 75 años o más

NO PROBE

56. ¿Es usted hombre o mujer?

- ¹ Hombre
- ² Mujer

NO PROBE

57. Sin contar esta cirugía, ¿aproximadamente cuántas cirugías más ha tenido?

- ¹ Ninguna
² 1 cirugía
³ 2 cirugías
⁴ 3 a 5 cirugías
⁵ 6 a 9 cirugías
⁶ 10 o más cirugías

Goal:

- Determine whether minor office and dental surgeries are being considered as surgeries.

IF NOT NONE: Hábleme de esas cirugías. ¿Para qué fueron?

¿Cree que quieren que incluya como cirugías los procedimientos como quitarse un lunar en el consultorio del médico, o no? ¿Por qué (no)?

¿Y qué me dice de las cirugías dentales, como la extracción de una muela del juicio? ¿Cree que quieren que incluya estas cosas o no? ¿Por qué (no)?

58 ¿Cuál es el grado o nivel escolar más alto que ha completado?

- 1 8 años de escuela o menos
- 2 9 a 12 años de escuela, pero sin graduarse
- 3 Graduado de la escuela secundaria (*high school*), Diploma de escuela secundaria, preparatoria, o su equivalente (o GED)
- 4 Algunos cursos universitarios o un título universitario de un programa de 2 años
- 5 Título universitario de 4 años
- 6 Título universitario de más de 4 años

NO PROBE

59. ¿Es usted de origen o ascendencia hispana o latina?

- 1 Sí, hispano o latino
- 2 No, ni hispano ni latino

NO PROBE

60. ¿A qué raza pertenece? Por favor marque una o más.

- 1 Blanca
- 2 Negra o afroamericana
- 3 Asiática
- 4 Nativa de Hawai o de otras islas del Pacífico
- 5 Indígena americana o nativa de Alaska
- 6 Otra

NO PROBE

GRACIAS

Cuando haya completado el cuestionario, por favor devuélvalo en el sobre con porte o franqueo pagado.

1. ¿Qué preguntas fueron problemáticas para usted? ¿Por qué?.

2. ¿Huba alguna otra cosa poco clara o confusa, o algo le sonó raro?

Sí → Describa, por favor.

No

Muchas gracias por toda su ayuda. Aquí tiene el sobre con su pago. Necesito que firme este recibo.

Antes de irse, ¿tiene alguna pregunta?

APPENDIX E:
SURGICAL CAHPS COGNITIVE TESTING
INTERVIEW NOTES

Surgical Care Survey

Reporting Template

Versions 1a & 1b

March 2, 2008

YOUR SURGEON

1. Who is the surgeon who operated on you?

No need to report on this item since we made it up for Round 1.

YOUR SURGERY

These questions ask about your experiences with this surgeon and the surgeon's staff on the day of the surgery.

2/17. After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?

¹ Yes

² No → If No, Go to Question 4

Goal: Determine if respondent reads the introductory sentence.

Determine how the respondent interprets "visit."

See if patients who had in-office surgery have problems answering this item.

INTERVIEWER: DID RESPONDENT READ OR SEEM TO NOTICE THE SENTENCE PRECEDING QUESTION 2?

YES

NO

DON'T KNOW

IF NO TO Q.2: When did you first see the surgeon on the day of your surgery? Tell me a little about it.

Is this what you expected or not? Why?

Did you see anyone from the surgeon's staff or team on the day of your surgery, before your surgery? IF YES: Whom?

ID	Survey response	Read intro?	Verbal response
E01	Yes	Yes	I was already in there for other things, so he was coming in. [The respondent had come into the hospital because of discomfort and then found out that he would have to have surgery immediately].
E02	Yes	Yes (took extra time)	She came in and wanted to know how I was feeling and see how everything looked. I saw her and her staff checked on me as well. They told me that they would be attending to me after the surgery as well.
E03	Yes	Yes	I was in the operating admit room. It was definitely what I expected since, I had already had two similar surgeries with him previously. [We decided that she should consider her most recent surgery when answering questions; No problem]
E11	Yes	Yes, and emphasized "on the day"	He said that they put him in a room and the surgeon came to see him and explain what would happen when they were done with the surgery. [No problem]
E12	Yes	Yes	-- [No problem]

E13	Yes	Yes, but silently until underlined part	-- [No problem]
E21	Yes	Yes	Q1: Which time? Had multiple surgeries. Read instructions. Reads introductory section. He told me about getting blood, told me the surgery would take longer than thought.
E22	Yes	No	
E23	Yes	No	Reads survey instructions. Yes he did, he came in to touch base with me for a minute.
E24	Yes	Yes	This was a surgical facility. On the day of the surgery, I was laying on the gurney. The anesthesiologist came in and we spoke, the Nurse Anesth. came in, and the doctor came in briefly.
E25	Yes	No	<i>Doesn't remember name of surgeon.</i> He visited me before the surgery to make sure that I felt okay.
S01	Yes	No	<ul style="list-style-type: none"> ▪ On page 5 my form says "su cirugia and participant's version says "su cirujano". [Definite problem] ▪ Surgical facility means hospital or the room where people have a surgery. [No problem] ▪ 'Surgical facility' means operation room (sala de operaciones) [No problem] ▪ She did not read the instructions [potential problem]
S02	No	no	<ul style="list-style-type: none"> ▪ She did not understand the instructions for the questionnaire. (if you answer this, then skip this question. ....[potential problem] ▪ She asked "are you talking about the same day of the surgery?" [definite problem] ▪ I saw the doctor the day before the surgery but I did not see her the day of the surgery. When I asked is she saw anyone from the surgeon's staff or team on the day of your surgery, she said she would not be able to recognize who was part of the surgeon's team and who was part of the hospital. This is not a direct problem with the question though [No problem] ▪ She said "centro de cirugia (surgical facility) is quirofano (operating room) [potential problem. I am not sure if we want to make a difference for the

			<i>purpose of this question]</i>
S03	Yes		<ul style="list-style-type: none"> ▪ Participant was confused about the instructions of the questionnaire. She wasn't sure about what they meant on page 3 [<i>Potential problem</i>] ▪ “Surgical facility’ means operation room (sala de operaciones) [<i>No problem</i>] ▪ She read the instructions [<i>no problem</i>]
S11	Yes	Yes	NO PROBLEM. She saw the surgeon and a nurse, met the anesthesiologist. It was what she expected, she didn't expect to talk to them too much since she was ready for surgery. SPANISH To her, centro de cirugía is the same as the hospital, it refers to the same thing. Could not give other examples. No problem with the question and no problem understanding centro de cirugía.
S12	Yes	Y	NO PROBLEM. Yes, it was your typical visit. Check up, talk about your problem. SPANISH; centro de cirugía means the same as hospital to her, area where they do surgeries.
S13	Yes	Y	NO PROBLEM. NO it was mainly an introduction, no real talking. I saw the nurse also the day of the surgery. SPANISH: centro de cirugía es donde te ingresan para la cirugía, no es el area donde se hace la cirugía.
Item summary			

3/18. Did this visit make you feel less anxious?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if scale is appropriate
Determine how the respondent interprets "visit."*

Tell me a little more about this visit.

Where were you when the surgeon visited?

When was it?

And, how come you picked [RESPONSE] instead of [RESPONSE_{±1}]?

ID	Survey response	Verbal response
E01	Definitely Yes	I had been given the option of partial or full lung removal and only a day to think about it. When he came to see me on the day of the surgery he made me feel like I made the right decision to have the whole lung removed. He told me it would prevent complication in the future. He was down to earth and reassuring. I was in the ICU room with my wife when he came in. [Scale seemed appropriate because respondent would have chosen highest option to rate this visit. He had previously had a bad experience with a misdiagnosis. This surgeon calmed him and made him feel informed about his diagnosis.]
E02	Definitely Yes	I was in the pre-op room when she saw me. It was the day of the surgery. [Respondent picked somewhat yes over somewhat now because she made him feel more positive than negative, "she reinforced that it would all be OK."] Definitely yes, I wouldn't choose that because you're never going to be comfortable when you know you have to be cut open.
E03	Definitely Yes	Well, I was not anxious at all before the visit, but I still felt better after his visit. I picked definitely because I get a warm, "I matter" feeling from him and it's always nice to know the doctor is there. [Possible problem; it sounds like his visit really only made her slightly less anxious, as she did start off with anxiety.]
E11	Somewhat yes	"It probably helps a little." "[The visit] was brief, because we had already talked...." The patient was in the prepping room when the surgeon visited. It was immediately before the surgery. In response to why he picked Somewhat Yes instead of Definitely Yes, he said "You cannot totally remove the anxiety, it's just a human being that is gonna be cut up.... You cannot suppress the anxiety totally."

		<i>[No problem]</i>
E12	Definitely no	<p>“but it wasn’t his fault.” “Nothing could have been done to make me feel less anxious.” Where were you? “I was in... the room they have you just before you go into the operating room.”</p> <p>When was it? “that morning... about 20 minutes before surgery.”</p> <p>How come you said Definitely No instead of Somewhat No? “Because I had never had surgery in my life.”</p> <p><i>[No problem]</i></p>
E13	Somewhat yes	<p>“Oh dear here we go again, definitely-somewhat.” Said that the surgeon told her what she was going to do, explained the situation, met her husband. Said she picked Somewhat Yes instead of Definitely Yes because she was still nervous because she’s going to have surgery.</p> <p><i>[Possible problem: respondent doesn’t like this scale in general. But then she ended up choosing an answer that wasn’t one of the extremes anyway]</i></p>
E21	DY	<p>I was a little nervous because the needles and the delay, because it was supposed to start at 10, but didn’t start until 11 or 12. I was in a holding room, a pre-op. Took my clothes off, gave me a key to a locker. They put needles in.</p> <p>Chose DY instead of SY, because his bedside manner made me comfortable. Most surgeons don’t make me feel comfortable.</p>
E22	DY	<p>I was in pre-op in the surgical waiting area. August 6 at 1:45. To know that it was fixin’ to be done and it would be over with.</p> <p>DY not SY: basically he come in there that it was that time and your turn, there would be no more stress.</p>
E23	SY	<p>A little bit, I was anxious because of the surgery. He just came in and verified where the surgery would be, touched base with me mentally, asked if I was ready. I was in the pre-op cubicle. I was there at 7 a.m., probably 8:30 a.m. 20-30 min prior to surgery.</p> <p>SY because I was somewhat nervous, it helped to have him touch base, but I was still anxious after.</p>
E24	DY	<p>Yes, it did, it is always good to look your doctor in the eye and make sure he doesn’t have alcohol on his breath and isn’t a proctologist. We spoke about what he was supposed to do.</p> <p>Laying on gurney in Rex in Carey. With a lot of other people.</p> <p>I am very positive about him so DY, not SY</p>
E25	DY	<p>I was lying in a prep area behind a curtain, with a nurse or two. Asked me if I was ready, asked if I had any questions. They went over the details prior. Then I waited for anesth. guy.</p> <p>DY—a familiar visit.</p>
S01	Definitely no	<ul style="list-style-type: none"> ▪ She said at the beginning “somewhat no”, then she changed to” Definitely no” because the doctor’s visit made her feel

		<p>more comfortable, but not less nervous.</p> <ul style="list-style-type: none"> ▪ She says that “angustia” and “nerviosa” is the same, but she rather to use “nerviosa”. She also said that “angustia” is like “miedo” [<i>potential problem: participant rather to use the alternative word instead of the original word</i>)]
S02		She skipped it correctly
S03	Definitely no	<ul style="list-style-type: none"> ▪ Participant said she did not really felt ‘angustia’. She felt calm, because the surgery was for her own good. She said “the doctors’ visit did not make me feel “angustia”. [<i>Definite problem: We are assuming the participant should be nervous before a surgery, therefore, she tries to find a meaning to the question, so she thinks that we are asking if the doctor’s visit made her feel anxious</i>] ▪ She says that “ angustia” and “nervioso” are the same, but she uses more “nervioso” [<i>Potential problem: the person rather to use the alternative word, even though she understand the original word</i>)]
S11	Blank	<p>DEFINITE PROBLEM. She was really confused with this question, she didn’t know if answering “definitely yes” would be taken to me that she felt less anxious or if she should answer “definitely no” it to mean that she didn’t feel anxious after the visit. She read the question three times and asked if she could leave it blank. I mentioned she should answer as she would normally if she got this in the mail and she left it blank.</p> <p>SPANISH: Angustia para ella significa agonía. Piensa que angustia es lo mismo que ansiedad y nervioso pero para esto de cirugía usaría mayor “preocupada” porque “nerviosa” se usa mucho y es la palabra que usa con más frecuencia.</p>
S12	Definitely Yes	<p>NO PROBLEM. We talked about the surgery, the risks, how it was going to be done, how long it would take. It was at the clinic. Chose Definitely Yes vs Somewhat Yes because we talked a lot about what to expect. SPANISH: angustia significa para ella miedo, no es lo mismo que ansiedad. Pero si es lo mismo que ansiedad, prefiere “nerviosa” en vez de ansiedad.</p>
S13	Somewhat Yes	<p>NO PROBLEM. I was already in the hospital bed, anesthesia had already been given and everything was ready to go. Chose Somewhat Yes vs. Definitely Yes: didn’t get a chance to talk in detail or ask questions. SPANISH: angustia significa ansiedad, quieren decir lo mismo. Pero no es lo mismo que nervioso, nervioso alguien puede ser nervioso todo el tiempo pero uno tiene angustia solo en momentos. Prefiere nervioso.</p>
Item summary		

4/19. After you were admitted to the hospital or surgical facility, were there any long delays before your surgery began?

¹ Yes

² No → **If No, Go to Question 6**

Goal: Determine if "long delays" is consistently interpreted.

About how long did you have to wait after being admitted for your surgery to begin?

And, what do you think they mean by "long delays?" That is, how long is a "long delay?"

ID	Survey response	Verbal response
E01	No	Yes – oh, before the surgery, no. [When reading question respondent skipped the word “before”; but caught it before answering the question. He didn’t have any delay since he was already in the hospital, they just wheeled him out of one room and into another].
E02	No	The time was scheduled for the surgery and I was told to come in right away. They did one thing after the other with me until the surgery started. I think a long delay would be if you felt yourself thinking, “oh, they still haven’t shown up”. Or, if the surgeon came in late and seemed rushed, then I wouldn’t have her operate on me.
E03	No	I don’t think it was longer than the typical waiting room wait. It wasn’t immediate, but I would say it was typical. Over a half hour would be too long, especially if the staff never checked in on you. [No problem]
E11	No	He had to wait “half an hour maximum.” In response to what he thinks would be a long delay, he said “could be hours.... 45 minutes or more would be a long delay.” [Possible problem: seemed to be very certain that half an hour wasn’t a long delay, but then said that 45 minutes would be a long delay. Those don’t seem that different. Maybe the question should specify something like “did you have to wait more than an hour”]
E12	No	He was admitted at 6am, they administered the anesthetic at 6:30, surgery at 7, so not long. What do you think they mean by ‘long delays’? “I guess that would depend on the person’s point of view.... I would consider a long delay probably hours.” [Possible problem: this respondent is interpreting ‘long delay’ differently from respondent E11, maybe it would be helpful to have a specific timeframe as suggested above]
E13	No	Hesitated and said “I’m trying to interpret ‘any long delays’.” Said that she had to report 2 hours before scheduled surgery time. What do you think they mean...? “The point at which the patient becomes irritated.” “It’s hard to give a time limit.” [Possible problem: maybe ‘long delays’ needs to be defined]

		<i>more clearly]</i>
E21	Y	Delay because of waiting blood, another surgery delayed him. Delayed by hour or 1.5 hours. A long delay is 4 hours.
E22	N	Long delay would be if an accident victim came in and held up progress in emergency room. PROBLEM: Earlier said there was a delay before surgery, but not here.
E23	Y	I got there at 6:45, waited in the waiting room for 20 minutes, maybe 25 before they began the process. It was very crowded. I didn't enjoy sitting there. The process began at 7:10-7:15, dealt with financial department, then went to pre-op, a total of 20 minutes to get to pre-op room. I waited in pre-op for almost an hour. Long—anything over 15 minutes.
E24	N	You know, I am going to say I don't know, because I was asleep. This would be better written "were there any long delays before anesthesia" PROBLEM: Includes time when anesthetized but not yet cut. Long delay: sitting around waiting for a doctor, anesthesiologist. I waited 45 minutes before anesthesia. I checked in at receptionists, waiting room for 5-10 min then into pre-op. This interview takes longer than the surgery. And more painful.
E25	N	Everything seemed to flow pretty well. I waited less than 15 min in waiting area. Overall I waited an hour. Long delay: Waiting in the waiting room, but also waiting for the doctor. I would say waiting 15 or longer without someone checking in on me would be long.
S01	NO	<ul style="list-style-type: none"> ▪ It was not long. I had to wait for about 20 minutes. A long wait would be an hour or more. I would rather use "retraso largo" instead of "demora larga" A long delay would be an hour or more. [No problem] ▪ Participant should have skipped next question because answered NO, however, does not read instructions and goes to question 5. [Definite problem]
S02	No	<ul style="list-style-type: none"> ▪ "I am not sure what should I answer here, there was some delay, but I am not sure about what would be the standard time to wait. I waited 45 minutes, but I guess that is the standard. Maybe if I had to wait for more than an hour it would be a long delay" [definite problem: Maybe we want to change 'long'?] ▪ She should had skipped the next question, but she did not [potential problem ?]
S03	No	<ul style="list-style-type: none"> ▪ She would say "Se demoró mucho el cirujano? A long delay would be an hour or more. She rather to use "demora" [No problem] ▪ Participant should have skipped next question because answered NO, however, does not read instructions and goes to question 5. [Definite problem]

S11	No	NO PROBLEM. Everything was very punctual. 15-20 minutes after meeting the team she went in for surgery. A long wait would be an hour, but it's not good to wait more than 15-20 minutes. SPANISH: Los dos, retraso largo y demora larga significan lo mismo pero prefiere demora larga, se oye mejor.
S12	No	NO PROBLEM. Waited an hour for the surgery to begin, they drew blood, checked my blood pressure. A long delay means waiting 2, 3, 4 hours like in the ER. SPANISH; retraso largo significa lo mismo que demora larga, prefiere demora larga.
S13	Yes	NO PROBLEM. Had to wait an hour and a half. For me, a long delay is when the whole thing from anesthesia to surgery takes longer than what it should: you know how long the surgery should take so any additional time after that is a delay. SPANISH: retraso largo es lo mismo que demora larga. Prefiere demora larga.
Item summary		

5/20. Were you kept informed about how long you would have to wait for your surgery to begin?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is appropriate

IF NOT "DEFINITELY NO": Tell me about it. That is, who kept you informed?

How often did they tell you?

Why did you choose [RESPONSE] instead of [RESPONSE_{±1}]?

ID	Survey response	Verbal response
E01	Skipped	Appropriate skip
E02	Skipped	Appropriate skip
E03	--	Skipped correctly
E11	--	(skipped correctly)
E12	--	(skipped correctly)
E13	--	(skipped correctly)
E21	DY	They told me about the blood, they told me about the surgery. They would come and tell me about all of the delays. They kept me pretty much informed about what was going on. I wasn't upset.
E22	--	<i>Skipped appropriately.</i>
E23	DY	Takes time. They scheduled it for 9 a.m., they were within 5 minutes of being on time to carrying me back to the operating room. PROBLEM. SEE EARLIER Q. Waiting for admittance, no one said when it would occur, although I knew it should occur at 9 a.m. DY/SY; actually it was a toss up. It was 3-4 min after 9 a.m.
E24	DY	I knew almost to the minute. Potential something, although not a problem: Didn't skip, but didn't need to. Worked okay.
E25	--	<i>Skipped appropriately.</i>
S01	Definitely yes	<ul style="list-style-type: none"> ▪ Even though participants should had skipped this question, I probed on it taking advantage that they were already thinking about it anyway.... I am not complete sure if the definite problem it is if we take in consideration that the person should have skipped the question... ▪ "They kept me posted every 15 or 20 mins." Then she added "I had two appointments with the doctor before the surgery where they informed me well about the surgery and its risks. [Definite problem: Participant mixed the information she got about the surgery from the surgeon in the prior appointments

		<p>with the information she got the day of the surgery . Are we asking about whether they kept her informed the same day of the surgery while she is in the hospital or if they ever told her how much would she have to wait?)</p> <ul style="list-style-type: none"> Participant laughs at “un poco, si “and “no mucho, no” [Definite problem: I will just mention this in this question even though it happened in many occasions during the interview. If we decide to keep an scale like this, we would definitely have to change the translation of these 2 options. Maybe ‘suficiente (enough) and “casi nada” (almost nothing)
S02	Definitely no	“No, but they gave me an appointment” [definite problem. She was thinking about whether they had told her before that day that there will be a delay]
S03	Definitely yes	“Theythey kept me informed all the time.”
S11	Definitely Yes	NO PROBLEM. A nurse kept her informed, the nurse told her the amount of time she’d have to wait and who/when they would be coming for her. She was told once, the only time it was needed so that’s why she chose definitely yes.
S12	Definitely Yes	NO PROBLEM. The doctor and the nurse told me clearly how the operation would be done, and they told me this several times.
S13	Definitely No	NO PROBLEM. Chose that answer because they didn’t tell me, I just waited.
Item summary		

6/21. Were any family or friends in the building during your surgery?

¹ Yes

² No → **If No, Go to Question 8**

Goal: Determine if 'in the building' is interpreted correctly.

What do you think they mean by "in the building?"

IF NO: Did you want any friends or family to be around during your surgery?

IF YES: How long were they in the building?

ID	Survey response	Verbal response
E01	Yes	My wife, sister, and friends were there. My wife was in the prep room and my friends were in the waiting room. [When answering this question he considered people in both locations.] Someone was in the hospital with me 24 hours during my stay; before during, and after the surgery.
E02	Yes	My wife was there. "In the building" means that there was someone there, was someone present. My wife was in the pre-op room and then she waited in the recovery room for me. She was there for the whole surgery, about 4 hours.
E03	No	"In the building" would refer to anyone being there with me somewhere in the building.
E11	Yes	In response to what he thinks they mean by "in the building," he said "accessible. Right there. If something should go wrong. And they were literally 'in the building'." The surgery was at 1 o'clock and his family was there until 8 o'clock. <i>[No problem: seemed to understand that while "in the building" may actually mean IN the building, the point was that the people are easy to find in case they are needed]</i>
E12	Yes	What do you think they mean by 'in the building'? "I would think that they would mean waiting room." His partner was with him there for 4 days, only going home to take a shower. <i>[Possible problem: not sure if this respondent is interpreting 'in the building' correctly. I don't know how we want them to interpret it]</i>
E13	Yes	Respondent circled <i>during</i> several times with her finger. Said that if she were taking this survey at home she would have asked her husband. Said she didn't know but then decided on yes; her husband was there before and after, but she doesn't know if he left to go get coffee or something. What do you think they mean by...? "in the building... in the vicinity... near the operating room... in the facility." <i>[No problem]</i>

E21	Y	My wife was there. Building: they were “back with me, in the pre-op room, so I wouldn’t be alone.” They were in the building the entire time I had surgery. Someone had to drop me off and pick me up. It may have been required that one person be there the entire time.
E22	Y	Right in the waiting room, in the surgical waiting room, where they could be reached. They were there a good 7 hours.
E23	Y	My wife was with me the whole time except during the surgery itself (but she was still in the building) and my mother in law. Surgery was done at a hospital. In the building: waiting room or cafeteria—accessible to the doctor. I don’t know how long my mother in law was there. She didn’t go to preop with me; wife did.
E24	Y	My girlfriend. She had to drive me home. She was there the entire time, 2 hours. Building: Did she go out and come back?
E25	Y	My wife was with me. She was in the building. Includes waiting area. I had it done in a “surgery facility”
S01	Yes	“In the building” means at the hospital. My family was there for about 5 hours, during the whole surgery” [No problem.]
S02	Yes	My husband was in the hospital until I got the anesthesia. [No problem]
S03	Yes	The building means “ the waiting room”. Family spent there 45 minutes [No problem]
S11	Yes	PROBLEM. By building she said it meant the area where the surgery was taking place. Her family was there before the surgery until she went to the operating room and nobody went in there with her. She thought this meant the operating room and not the hospital/location.
S12	Yes	PROBLEM: Read it twice. Asked: Does “building” mean in your house? I don’t know, does it mean the house, the apartment. Or does it mean the hospital? If it means the hospital, the answer is Yes. My children went to the hospital. They were there most of the time, they took shifts.
S13	No	NO PROBLEM: it means in the hospital. I didn’t need family or friends with me for this surgery, if it was more serious then yes.
Item summary		

7/22. Immediately after the surgery was over, did this surgeon or a member of the operating team discuss your surgery with your family or friends?

- ¹ Yes
- ² No
- ³ Don't know

Goal: See if there were any confidentiality problems related to HIPAA.

Determine how people who do not want this information shared respond to the question.

IF YES: Tell me a little more about this. Who discussed the surgery? What did they say?

Did you want them to discuss the surgery with your family or friends -- or not?

IF NO OR DON'T KNOW: Did you want them to discuss the surgery with your family or friends -- or not? Why (not)?

ID	Survey response	Verbal response
E01	Yes	Someone talked to my wife and sister [his sister is a surgical care nurse]. It's hard to remember who it was who talked to them, I remember the surgeon quite a bit giving them general information and answering questions. I definitely wanted the information shared with them because I was too groggy to remember it.
E02	Yes	They came out and told her it was going well, and after they said it went fine. They did discuss the details with her, which I did want. The surgeon and staff gave her updates. I think it was just the surgeon who discussed the details.
E03	--	Skipped correctly
E11	Yes	"I am told that the doctor came out. I was still unconscious." He said the surgeon came out and told his family that everything went rosy. In response to whether he wanted this, he said "Oh absolutely. Definitely." <i>[Possible problem: maybe question should specify whether respondent knew at the time or was told later (e.g., in the case, like this one, that they were still unconscious)]</i>
E12	Yes	"I wasn't there but... my partner told me." The surgeon discussed the surgery. "He came out... [he] told my partner that I was being moved to ICU, that the surgery went fine." He wanted his partner there; he got a healthcare directive because he didn't want him locked out. <i>[No/possible problem? I don't know the HIPAA regulations on domestic partnerships and privacy issues. This respondent had a healthcare directive instructing any information to be given to his partner. I don't know.]</i>

E13	Don't know	"it has a 'don't know' answer. Goody!" Did you want them to...? Said that she was still sort of out of it so it would probably a good idea for the doctor to talk to a conscious person. <i>[No problem]</i>
E21	Y	My surgeon came out and talked to my wife and myself, but I was out of it but she understood it. He discussed the swelling in my leg taking the surgery longer. He didn't know how I was walking on my knee. I signed some papers in the beginning that allowed my wife to know everything.
E22	Y	As I recall my surgeon went to the waiting room and talked to my mother and dad and told him what he found and what went on and the recovery period, and how long before I went to a room. I wanted this discussed.
E23	Y	I am trying to think back. Yes, yes, he found my wife and told her that everything went real well. He gave her an update, but I don't really remember it. The surgeon told her. I wanted her (wife) to know because I knew I would be out and groggy.
E24	Y	Well he discussed it briefly with Lori and that he will back, that it went well. He came back later and spoke to us later. I had to sign a paper that gave him the right to discuss it with Lori. Surgeon.
E25	DK	That I don't know. With my wife being their, she said she initiated discussions; she is a nurse, so she talked to everyone about what happened. I wanted them to discuss surgery with my wife. At the time I didn't know, but after I knew. POTENTIAL PROBLEM: He knew, but wrote DK because at the time he was unaware of surgeon talking with family.
S01	Yes	"When the doctor was going out of the elevator my daughter stopped him and asked him about the surgery. I am not sure if he had planned to talk to my family, but as they stopped him they could ask some questions. [Potential problem; I am not sure if the purpose of the question is to understand the question literally or if the doctor actually had the intention to talk to the family of the patient...]
S02	yes	The nurse talked to my husband and told him I was doing fine and that he had to pick me up after 45 min. I wanted them to talk to my husband, they ask you about that in the hospital when you get there. [No problem]
S03	Yes	The doctor talked to my husband and told him about how I was doing and about the results of the surgery. [No problem]
S11	Yes	NO PROBLEM. After the surgery she talked to her husband and found they had told him when the surgery was done and that it had been successful. She did want the surgical team to talk to her husband, he's always been by her side and he should know if anything goes wrong.
S12	Yes	NO PROBLEM. The doctor told them how the surgery had been, how long I'd been out and when I'd go to the room where they could see me. Yes, I wanted the dr. to talk with my family

		so they would not worry.
S13	Skipped	Skipped correctly
Item summary		

8/23. Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery?

¹ Yes

² No → **If No, Go to Question 10**

Goal: Determine if respondent is aware of visit.

Determine if 'outcome of surgery' is interpreted as intended.

Determine how people who did not stay overnight answer this question.

What do you think they mean by "discuss the outcome of your surgery?"

IF YES: Tell me about this visit -- or visits.

IF NO: Did any one from the surgeon's staff visit you to discuss the outcome of your surgery before you left the facility?

Yes --> *Tell me about this visit*

No --> *Why not?*

About how long did you stay in the surgical facility?

ID	Survey response	Verbal response
E01	Yes	[Considers "outcome of your surgery" to mean that the surgery "was clean and there was no problem". The doctor visited him at least once daily during his 10 day stay in the hospital.]
E02	Yes	After the anesthesia wore off she talked to me. She told me when I could leave and talked about the surgery and the results. Then she said she wanted to plan a follow-up appointment.
E03	Yes	I think by outcome they mean taking my vitals and saying how the surgery went. He said it went well, there was some additional bleeding in one to, and it took a little longer than expected, but it all went well. [No problem]
E11	No	In response to what he thinks they mean by "discuss..." he said "if there is a complication, they definitely should tell you." He said the doctor's assistant visited him and asked how he was doing. He stayed in the surgical facility overnight and was released about 10 o'clock the next day. [No problem]
E12	Yes	What do you think they mean by 'discuss the outcome of your surgery'? "How things went, and what I could expect as far as healing time." "He told me how the surgery went... everything went fine... take it easy on exercise." [No problem: he was aware of visit, seems to be interpreting 'outcome' correctly.]
E13	No	"Here they oughta have a 'don't know' answer too." Seems like

		<p>she wasn't aware of a visit by the surgeon. But she remembered talking to nurses in the recovery room (she told them that her arm didn't work). She was in the surgical facility after the surgery for about 4 hours.</p> <p><i>[Possible problem: there may have been a visit but she wasn't aware of it]</i></p>
E21	Y	<p><i>[see also above]</i> He came in the next day, it was his day off and he was going on vacation, he took off the bandage, checked on me, and saw how I was doing and made sure that I was getting up walking. This was different from the conversation with my wife and I. This time, he talked about medication, more in depth.</p> <p>Outcome: how things went, how I felt, how it looked, whether there were complications down the road.</p>
E22	Y	<p>How long it was going to take until I recovered, how long before I could go back to work, and what he found, whether it was cancer or not, if everything would be okay.</p> <p>I was there a week; He visited me twice a day.</p>
E23	N	<p>Let me think back. The nurse got me. I had to get up and walk. I had crackers. I had to drink. Nurse came out to get IV out.</p> <p>All I saw were nurses and NAs.</p>
E24	Y	<p>I was still a little groggy, but I certainly remember it. He had his surgical garb on. He said I had a bigger polyp and I should see a big difference in 3-4 weeks. He said I would see him in 2 weeks. He said to give him a call if anything happened. I had a piece of paper describing the problems.</p>
E25	Y	<p>I don't remember the details. But he explained that it went smoothly, he went over what happened, if it had to be different in any way.</p> <p>I stayed in the center, I was released the same day, I'd say within an hour. I don't know when the surgery ended or when I regained consciousness.</p>
S01	No	<ul style="list-style-type: none"> ▪ "I am not sure if you are talking immediately after the surgery of days or hours after. I am not sure what to answer. I was expecting the doctor to go and see me the same day while I was in intensive care or my room, but he did not show up until the next day. The nurses gave me some information about how the surgery went, but not the doctor" [potential problem: participant is thinking about her expectations, she wanted to talk to the doctor the same day, but she did not show up until the next day, so she said NO. . She was in the hospital for 3 days] ▪ Participant goes to question 9 anyways. [Potential problem]
S02	no	<p>I just saw a nurse after the surgery. I did not see the doctor again. I was in the hospital for about 6 hours. [No problem]</p>
S03	Yes	<p>Doctor went to visit me and asked me about how I was feeling. [No problem]</p> <ul style="list-style-type: none"> ▪ She thinks that "centro de cirugia" is the quirófano (surgery

		room). [Potential problem] It did not affect her answer in this case, but it might in another cases???
S11	Yes	NO PROBLEM. This means if they came in and asked me how I felt after the surgery and to tell me how it went, if everything was alright or if there were any problems. The visit was with another doctor from the hospital, it was not with my surgeon. He asked me how I felt, if I had any questions or symptoms. She stayed in the hospital for a day and a half.
S12	Yes	NO PROBLEM. Yes, the doctor said everything went well. The next day he came and examined me and said everything went well. Stayed at the hospital 3 days and then went to a home for 2 weeks.
S13	NO	NO PROBLEM: I didn't see the surgeon until I had an appointment with him. I did see 2 other men, 2 assistants. I was in the hospital from 9:30am until 6pm, 1 day.
Item summary		

9/24. Did this visit occur in the first 24 hours after your surgery?

¹ Yes

² No

Goal: Determine if heavily sedated patients can answer this question.

IF YES: What happened during this visit?

IF NO: How certain are you that the surgeon did not try to visit you during this period?

ID	Survey response	Verbal response
E01	Yes	Yes. I remember because he visited around dinner time and that was within 24 hours of the surgery.
E02	No	I know it wasn't within 24 hours because I went home and then came back for the follow-up appointment. It was an in and out surgery. [Problem: The answer to this question should be "yes". The surgeon did talk with the patient after the surgery, but the respondent is considering his follow-up office appointment with the surgeon when answering this question. This respondent has a hard time making connections between questions, for example, the use of "this" refers to the previous question – he was unable to make that connection. Similarly so in question 11/26.]
E03	Yes	It was within the first hour, as soon as the medicine wore off. He told me how the surgery went and when my next appointment would be. He also saw me in the recovery room.
E11	--	(skipped correctly)
E12	Yes	(already said in previous question so didn't probe) [No problem]
E13	--	(skipped correctly)
E21	Y	See earlier; it occurred 18 hours after the surgery. <i>Participant thinks out loud figuring out exactly how many hours after the surgery he talked to him.</i> This is the one where I wasn't sedated and had my bandages were checked.
E22	Y	He basically asked me if I was okay, I told him I was sore, and told me to tell the nurses if I needed something.
E23	--	<i>Appropriately skipped</i>
E24	Y	Earlier said he met less than hour after the surgery. See earlier response.
E25	Y	<i>See earlier</i> occurred when I became conscious.
S01	Yes	Doctor said everything was OK and that he was right about me having to change my "valvula"
S02		She skipped it correctly.
S03	Yes	The doctor gave me medicine. He visited me after 3 hours
S11	Yes	POSSIBLE PROBLEM. She was not sure if the question was asking about her visit with the surgeon or the other doctor or if it was about her husband's talk with the surgeon after the surgery.

		When told to answer it as she thought it should be, she said it was about her visit with the doctor. She talked with him about how she felt after the anesthesia.
S12	Yes	NO PROBLEM. That was when the doctor went in the morning the day after the surgery and talked to me.
S13	Skipped	Skipped Correctly
Item summary		

ANESTHESIOLOGY

10/25. Were you given something so you would not feel pain during your surgery?

¹ Yes

² No --> **If No, Go to question 18**

Goal: Determine if anesthesia is interpreted as intended.

IF NO: Were you given anything to put you to sleep during your surgery or not?

Yes --> *And this is different from being given something so you wouldn't feel pain because*

No --> *Why not?*

ID	Survey response	Verbal response
E01	Yes	[He went on to say that he was knocked out completely.]
E02	Yes	They gave me Vicodin for the pain. [Problem: he was not considering anesthesia, although after probing he did say that he was put to sleep during the surgery.]
E03	Yes	[No problem]
E11	Yes	I got a spinal. [No problem: correctly interpreted being put out as being given something to not feel pain]
E12	Yes	"I don't know exactly what it was." "it wasn't very long at all until I didn't care at all, I was very happy and mellow." [No problem]
E13	Yes	"Yeah!" "Would that ever be a 'no'?" [No problem]
E21	Y	Talked about needles earlier. Asleep during surgery.
E22	Y	This is asking if you...what you get to be put asleep, like laughing gas or something.
E23	Y	I don't know what I was given. I know the anesthesiologist gave me something. I had no pain coming out of surgery. I was out during the surgery.
E24	Y	I had no pain whatsoever.
E25	Y	--
S01	Yes	Participant does not read the title, but there is no problem in her understanding the question right [No problem]
S02	Yes	She does not read the instructions but there is no problem in her understanding the question right [No problem]
S03	Yes	Yes, they gave me some anesthesia. [no problem]
S11	Yes	NO PROBLEM. They gave me anesthesia so I wouldn't feel anything. SPANISH: Servicios de anestesiología se refiere a la anestesiología que le dan a uno para que no sienta dolor, sin ella no se puede hacer la cirugía.
S12	Yes	NO PROBLEM. SPANISH: anesthesia es para el dolor, servicio

		eso es lo que hacen las enfermeras. Usaria solo anestesia.
S13	Yes	NO PROBLEM. SPANISH: servicios de anestesiologia incluye todo lo que esta trabajando para la anestesiologia. El examen que hacen antes de la anestesia como tu peso, tu presion, todo eso.
Item summary		

11/26. Did an anesthesiologist do this or did this surgeon do this?

- ¹ Anesthesiologist did this
- ² This surgeon did this --> **If this surgeon did this, Go to question 18**
- ³ Don't know --> **If Don't know, Go to question 18**

Goal: Determine if respondent is capable of determining who provided anesthesiology

IF ANESTHESIOLOGIST OR SURGEON: How do you know this?

IF DON'T KNOW: If you had to guess, how would you answer this question?

ID	Survey response	Verbal response
E01	Anesthesiologist	[How do you know this?] I was introduced to him as the anesthesiologist and his team.
E02	This surgeon	It says did the anesthesia do this or did the surgeon do this. [He flips back to 10/25.] Oh, for the pain, that's what they mean. The surgeon did it. It's unclear, it's like a slap in the face, well what are they asking me, so I had to go back a page. I know because her name was on the prescription. My wife even went out and picked it up in advance. [Problem: the respondent is thinking of the Vicodin the doctor prescribed, even though he says "anesthesia". He also read "anesthesia" instead of "anesthesiologist".]
E03	Anesthesiologist	He introduced himself as the anesthesiologist. I assume they mean questions related to anesthesiology and the surgery. [No problem]
E11	Anesthesiologist	He knew it was the anesthesiologist "because she was there. She introduced herself." <i>[No problem: respondent knew it was the anesthesiologist because she introduced herself as the anesthesiologist]</i>
E12	Anesthesiologist	How do you know this? "because I had met him a week prior to the surgery" <i>[No problem: knew who the anesthesiologist was]</i>
E13	Anesthesiologist	"Vague pronoun... English teacher here, we can't have three <i>thises</i> ." (she drew boxes around the <i>thises</i>). How do you know? "Cuz he was there...." <i>[Possible problem: respondent got tripped up on wording. Maybe two of the thises could be changed to 'it'? Or maybe instead of 'this surgeon' it could be 'the surgeon'?]</i>
E21	Anes	Had a hard time pronouncing this. Had heard of anesthesiologist. There were two, they introduced themselves and had tags. They explained what they would be giving me, and how I would feel, and coming back from being under.
E22	Anes	When I got back in pre-op, there was an anesthesiologist team, they told me what was going on, what they would give me, and when they were ready, they would come and get me.
E23	Anes	Definitely Anes. She introduced her self. She told me what she would do, what she was there for, asked if I had any questions.

		Just touched base with me about her role. Her assistant came in as well. During that visit she started the IV.
E24	Anes	He introduced himself as an anes, talked a little bit about what he would do. He didn't flash me his I.D., but I trust he was one.
E25	Anes	From the nurses, when I was sitting on the bed, they told me what would happen and said I would wait for anes.
S01	This surgeon did this	Participant was confused. She asked "Who did what?" Well, if you are talking about the anesthesia, then it was the surgeon, because he is the one that has to prescribe the anesthesia. [definite problem: She was totally confused about the question, I think she thought we asked about who decided that she needed anesthesia]
S02	Anesthesiologist did this	I saw him when I was in the hospital and he told me. [No problem]
S03	Anesthesiologist did this	He told me [No problem]
S11	Anesthesiologist	NO PROBLEM. I met the anesthesiologists, it was a group of 2 of them and I met them before the surgery.
S12	Anesthesiologist	NO PROBLEM. Because before the surgery I met him and the nurse.
S13	Anesthesiologist	NO PROBLEM. The nurse told me who the anesthesiologist was, I asked and he explained to me that it was a local anesthetic.
Item summary		

12/27. Did this anesthesiologist encourage you to ask questions?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if respondent is using reasonable criteria in deciding whether or not the anesthesiologist encouraged questioning.

Determine how respondents who do not want to ask questions answer this item.

IF DEFINITELY/SOMEWHAT YES: How did the anesthesiologist encourage you? That is, what did the anesthesiologist do or say that showed that he or she wanted you to ask questions?

IF DEFINITELY/SOMEWHAT NO: What did the anesthesiologist do or say that showed that he/she did NOT want you to ask questions?

ID	Survey response	Verbal response
E01	Somewhat no	He was a cold aloof person. He was not forthcoming. My sister is normally very emphatic about her coworkers, but she just said he was “competent”. I saw him the night before and I just didn’t feel like he wanted to answer questions.
E02	Somewhat yes	He wasn’t like the doctor. He just told me what he would do. Just the way he approached it made me think that he didn’t want to answer questions. He wasn’t as open as the doctor. [I missed the probe here.]
E03	Definitely Yes	He made it seem OK. He didn’t stop me from asking questions. Through talking to him and him explaining things; my question were well received. [No problem]
E11	Definitely yes	“Before the surgery you have an appointment with the anesthesiologist. And she encouraged me to ask questions. She specifically asked.” <i>[No problem: seems like it was very clear to respondent that he was encouraged to ask questions because the anesthesiologist specifically asked; his criteria were reasonable]</i>
E12	Definitely yes	“He was very insistent- ‘have I explained everything properly?’” “really insisted that I ask questions if I have them” <i>[No problem: seems to be using reasonable criteria to decide what ‘encourage’ means]</i>
E13	Somewhat yes	“oh here we go again.” “I think they always say at the end ‘do you have any questions’, but did they <i>encourage</i> me?...” (seemed like not so much) <i>[Possible problem: Seems like on multiple items she might have preferred a simple yes/no. However, her answer wasn’t one of the extremes, so I don’t know.]</i>
E21	SY	They asked me to ask questions. I didn’t have a lot of questions. I was only concerned about feeling pain. No pain.

E22	DY	One of them looked on my face and could tell I was nervous and said I should ask. When I was on the medication I was out.
E23	DY	<i>See earlier—Yes, asked if he had Qs.</i> She went through things about allergies, whether I had surgery before, whether I had nausea before.
E24	DN..SY	No, we spoke briefly. He might have asked. Well wait, he did ask, so I guess SY. He asked if I had questions.
E25	SY	The main question was whether I had any reservations about anes. Details are fuzzy about the conversation. He was kind of just talking out loud about what he was doing. He said that I would get a local and feel numb.
S01	Somewhat yes	I saw him 2 weeks before the surgery, but not the same day. He did not speak Spanish, but my daughter was with me. He explained things to us, but there was not much I could ask, I asked him some question [Potential problem: participant was thinking about whether she asked questions or not instead of if the anesthesiologist encouraged her to ask questions]
S02	Somewhat no	They have a form where they ask you all the questions about allergies and other things, so he does not ask me many questions [Definite problem: She thinks we are asking whether the doctor asked her questions]
S03	Definitely no	He just told me that he was going to put me the anesthesia on my arm and that I was going to sleep after that. [No problem]
S11	Definitely Yes	NO PROBLEM He asked me if I had any doubts, or if was scared to let him know and we'd talk about it. She responded Definitely Yes vs. Somewhat yes because the anesthesiologist was very clear. For her to answer "somewhat no" he would have to be unclear in his explanation and I would have doubts about what he'd told me.
S12	Definitely Yes	NO PROBLEM After he explained things to me he asked me if I understood what he'd said. So if I didn't, we could talk about it. He did that every time we saw each other so it's definitely yes not somewhat yes.
S13	Somewhat No	NO PROBLEM. There was no time, it was too short to ask him questions. I think he was checking up on several patients so he couldn't spend much time with one. Didn't answer Definitely No because even though he didn't encourage me, he still answered my question, he didn't ignore me.
Item summary		

13/28. Did you ask this anesthesiologist any questions?

¹ Yes

² No --> **If No, Go to question 15**

Goal: Verify that "questions" are being interpreted to mean "medical questions."

IF YES: What did you ask about?

IF NO: Why not?

What do you think they mean by "any questions?" That is, are they only interested in questions about anesthesiology or are they interested in other kinds of questions? IF OTHER: What kinds?

ID	Survey response	Verbal response
E01	No	I was worried about other things, like the long-term outcomes of my surgery, not as much about being put under. [Respondent would have answered yes even if he had asked the anesthesiologist questions unrelated to his job.]
E02	No	I didn't have any questions, so I didn't ask him any. I didn't have anything to ask. He didn't have anything to do with the surgery.
E03	Yes	I asked him about the type of anesthesia he would use. I assume they are asking about anesthesiology questions. [No problem].
E11	Yes	"about the risks" (of the anesthesiology – paralysis, etc.) Interpreted the question to be about questions about the anesthesiology – "that is the way I interpreted it. Just related to the anesthesiology." <i>[No problem: he interpreted "questions" as meaning "medical questions", specifically relating to the anesthesiology]</i>
E12	Yes	"I wanted to know about the NT tube... I was gonna be awake for that." "I think that they would be basically interested in just questions dealing with anesthesia." <i>[No problem: correctly interpreting 'questions' to mean medical questions]</i>
E13	No	"I think I really didn't have any questions." What do you think they mean by 'any questions'? "Where are you from, how old are you, have you done this before... as well as questions about the procedure." Then respondent remembered that they did make small talk and exchanged questions about the anesthesiologist buying a house, but she said "I think I'm not gonna change my answer." <i>[Possible problem: in determining her answer she seemed to interpret 'any questions' as 'any medical questions' but when I specifically asked her that, she included other types of questions. But she didn't change her answer]</i>
E21	Y	One was the IV, because it had so many different prongs. That way they wouldn't have to take it out to change medicines. I

		<p>asked how long I would be under, and if they had done this before.</p> <p>Any qs: Any questions that they can answer that will make you feel more comfortable. It isn't normal to have needles in your arm. Focus on anesthesiology.</p>
E22	Y	<p>I asked'm how long it would take before I would be asleep and if there was a possibility I would wake up in the OR.</p> <p>Any questions—it might also include allergic reactions to medications.</p>
E23	N	<p>I felt like she covered all of the information necessary.</p> <p>Any questions: Probably they are trying to get at whether or not the anesthesiologist is covering the information s/he needs to as to what might happen, their role, sore throat, etc.</p>
E24	N	<p>No questions, because my girlfriend's brother is an anesthesiologist.</p>
E25	N	<p>I put all my trust in the medical staff. A</p> <p>Any questions; how long am I going to be out? Is it dangerous? Is it common? But I put my trust in them.</p>
S01	Yes	<p>"I asked him I was going to be completely slept and about how dangerous this would be and about how does it work." She knows the question refers to questions about anesthesia or medical questions [No problem]</p>
S02	No	<p>I did not ask any question to him [No problem]</p>
S03	Yes	<p>I asked me whether he was going to give me local or complete anesthesia. She knows the question refers to questions about anesthesia or medical questions [No problem]</p>
S11	Yes	<p>NO PROBLEM. Yes, I asked how long I'd be under anesthesia and if it was dangerous. He said it was if you ate or drank before it, but that I should be fine. To her, any questions refer to anything, it could be questions about diet before and after surgery, pain and how long it would take to have the surgery and recover.</p>
S12	NO	<p>NO PROBLEM. I didn't have any questions to ask, the doctor already explained everything. Any questions... it means any questions I have about the surgery.</p>
S13	Yes	<p>NO PROBLEM. I asked if it was a general or local anesthetic. Any question means any type of question about anesthesia.</p>
Item summary		

14/29. Did this anesthesiologist answer your questions clearly?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is appropriate.

How come you said [RESPONSE] instead of [RESPONSE±1]?

ID	Survey response	Verbal response
E01	Skip	Appropriate skip
E02	Definitely no	[Respondent missed the skip pattern] I didn't ask any questions, so I don't need to answer this. [Although he realized no need to answer question, he decided to choose the negative response to indicate this].
E03	Definitely Yes	Because I wouldn't have allowed him to start if everything wasn't entirely clear. [No problem].
E11	Definitely yes	"I didn't say 'I wish I had asked this'." He said the anesthesiologist didn't seem doubtful, it was straightforward. <i>[No problem: scale seemed to work OK for this respondent]</i>
E12	Definitely yes	"He told me that the NT tube would be put in when I was asleep..." Said that they talked about possible risks, & if there were any benefits. How come you said Definitely Yes instead of Somewhat Yes? "because... he was... insistent about the fact that he was answering all my questions." <i>[No problem: scale seems fine. Might need to be only dichotomous though? But respondent didn't have a problem with it]</i>
E13	--	(skipped correctly)
E21	DY	For the questions I asked. I didn't have a lot of questions. The anesthesiologist knew my wife. They didn't evade any questions, they weren't in a hurry. They weren't rushing, they took their time with me and made me comfortable.
E22	DY	Because they basically they put it clearly and said if you have any questions that I can't answer, I will get someone else answer it.
E23	--	<i>Appropriately skipped.</i>
E24	--	<i>Appropriately skipped.</i>
E25	--	<i>Appropriately skipped</i>
S01	Definitely yes	He answered the questions giving me the information I wanted to know. [No problem]
S02		Skipped correctly
S03	Definitely yes	I asked him a question and he answered that everything will be fine .[No problem]
S11	Definitely Yes	NO PROBLEM. She answered definitely yes vs. somewhat yes because she understood him very well and didn't have any

		questions afterwards.
S12	Skipped	NO PROBLEM. Skipped correctly
S13	Somewhat Yes	NO PROBLEM. He answered my question well, wasn't to short with me.
Item summary		

15/30. After you arrived at the hospital or surgical facility, did this anesthesiologist visit you before your surgery?

¹ Yes

² No → **If No, Go to Question 18**

Goal: Confirm that respondent is not reporting other visits with the anesthesiologist.

IF YES: Tell me about this visit.

Where did it happen?

About how long was it?

What did the anesthesiologist say or do?

IF NO: Did you ever see this anesthesiologist before your surgery or not?

IF NO: Did you see anyone about anesthesiology before your surgery?

ID	Survey response	Verbal response
E01	Yes	[Respondent was already in the hospital when he found out he was having surgery. His anesthesiologist visited the night before to have him sign forms; participant doesn't remember anesthesiology saying anything apart from the forms.]
E02	Yes	He came in to tell me how it would be. It was the day of the surgery for about 8 to 10 minutes. He talked about the type of anesthesia he would use.
E03	Yes	He came to my room and took my vitals. It was only about 8-10 minutes. I told him what I had previously had a bad reaction too. [No problem]
E11	Yes	"She pretty much explains to you the different options – gas or spinal." Where did it happen – "in the hospital. They have a special area for this particular purpose." It was "about half an hour." "They explained the procedure and the risks." [No problem]
E12	Yes	Where? "in the area that I was at before going into the surgery room." How long? "It was short, probably about 5 minutes." What did anes. say or do? "He visited me to tell me that he would be giving me the don't-give-a-damn medication. It wasn't as in-depth as it was in the prepare clinic." [No problem]
E13	Yes	He came in, introduced himself, said what he was going to do, talked about the anesthesia. 10-15 minutes including putting in the IV. [I'm not sure whether there is a problem. Are we supposed to confirm that they are not referring to the visit where the anesthesiologist actually administers the anesthesia?]
E21	Yes	I don't think I get this question. They <u>had</u> to visit me before the

		surgery, they wouldn't see you after. He visited me...it was in the pre-op room. Big room with a lot of beds, and curtains. The visit was about 30 minutes. They would talk to me and put the lines in and then would come back and tell me why it was delayed. Problem: R noted need for anesthesiologist before the surgery in order to get anesthetized; therefore this question didn't make sense.
E22	Y	They come back to the pre-op area, told me who would look after me and to let them know if I had questions and concerns, that they would be with me throughout the surgery to take care of me. Visit was about 30 minutes.
E23	Y	She came in 15-20 before and introduced herself. She was there 5-7 minutes. This was in pre-op. <i>See earlier for what she did and said.</i>
E24	Y	He actually spent more time with me than the doctor did. He was waiting for the happy pill to take effect. It took about over 5 minutes. We didn't speak the entire time. He was there when I passed out.
E25	y	Sounds obvious since he had to give me anesthesia. He seemed really busy, he just popped his head in and got his needle out and stuck me. Aside from the minor complication where the local didn't work and they had to put me under completely, it would have been a 2 minute visit. It lasted 10 minutes instead. The first anesthesia didn't effect me, so he sat around and tested the area for awhile then knocked me out. Problem: R noted need for anesthesiologist before the surgery in order to get anesthetized; therefore this question didn't make sense.
S01	No	I did not see him after the surgery [no problem]
S02	Yes	It was not a visit, he was there when I was signing everything about the anesthesia and they took my blood pressure. [Potential problem: We meant a visit right? not just seeing the doctor]
S03	No	I did not see him after the surgery [no problem] She did not skip the next question [potential problem]
S11	Yes	POSSIBLE PROBLEM. She took it to mean right before the surgery, is that right? She was not sure how long they met but she met the 2 anesthesiologists right before the surgery.
S12	Yes	NO PROBLEM. He was introduced to me by the nurse, we didn't talk.
S13	No	NO PROBLEM. Didn't see him before the surgery, or anyone else to talk about the anesthesia.
Item summary		

16/31. Did this visit make you feel more calm and relaxed before your surgery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is working properly.

How calm and relaxed were you before this visit?

And, how calm and relaxed were you after this visit?

IF RESPONSES TO PROBE ARE INCONSISTENT WITH RESPONSE TO ITEM, SAY: I'm a little confused. You said [RESPONSE TO Q.16] -- that the visit made you feel more calm and relaxed. And, you said that before this visit, you felt [RESPONSE TO FIRST PROBE]. And, after this visit, you felt [RESPONSE TO SECOND PROBE]. Can you explain a little more?

ID	Survey response	Verbal response
E01	Somewhat no	I was not very calm before the visit. I was concerned about all of the different things my wife had to do in relation to the surgery and how things would work out. The anesthesiologist didn't put me much at ease. I choose "somewhat" because being able to see him face-to-face, just his presence.
E02	Somewhat yes	I still had concerns about the anesthesia and the surgery itself. [How relaxed after the visit in comparison?] After the visit [pause] I was very calm. It was because of his visit. It was reassuring.
E03	Definitely Yes	I started out calm, but it was nice because I didn't feel warehoused. I was more relaxed because I wasn't wondering about it anymore. [Possible problem with the scale not being adequate for those who enter with low anxiety]
E11	Definitely yes	Said that before this visit he was calm, and that after the visit he was the same. When I asked about the inconsistency with how he answered the question he said "Oh I contradicted myself!" and then he said "I gained knowledge rather than modify my psyche.... It doesn't affect my emotions but it affects my knowledge." intellectual knowledge. [Possible problem: maybe question should be more specific to avoid responses about these different types of anxieties]
E12	Definitely yes	"That's difficult to say." "That's very very hard to answer with the possible answers that I have." "It's based on so many factors." How calm before? "Calm" "I was nervous, and he was administering a drug that wouldn't make me nervous". How calm after? "same thing after" When probed because of inconsistency, he seemed to be talking about feeling "definitely yes" more calm and relaxed after the <i>administration of the</i>

		<i>anesthesia, not the visit itself (with the anesthesiologist). [Definite problem: responded to effect of administration of anesthesia, not just talking with anesthesiologist]</i>
E13	Somewhat yes	“This is his visit, not the stuff they gave me.” How calm before? “I was having surgery!” How calm after? At first she said about the same but then when I probed for the inconsistency, she said that, even though she was still nervous, the visit was helpful. <i>[Possible problem: it didn’t trip her up in the end, but she had to go back and check that the question was asking about the anesthesiologist’s visit making her feel more calm, not the anesthesia itself]</i>
E21	DY	I wasn’t calm or relaxed before this visit. Pre-op jitters. I wanted to be done. I was very calm after the visit.
E22	SY	Not very calm before visit; Somewhat calm after the visit, but not 100% good; still cold and nervous.
E23	SY	Just answering more questions. She presented a relaxed mood or demeanor to me...she answered questions. Most people are anxious. I still had some anxiety because it was surgery. It helped somewhat.
E24	SY	I wasn’t nervous anyway. This was small. Not like heart or brain surgery. It always helps to have someone talk to you. I was calm before. I was very calm because of the happy pill afterwards. Problem: Relaxation due to “happy pill” not necessarily anesthesiologist visit.
E25	DY	Well the anesthesia is important, so I felt more relaxed having a professional anesthesiologist getting me ready. Before: 5 out of 10, 10 being very anxious After: 4 out of 10, a little less anxious. DY—I definitely more relaxed, but not the degree of relaxation PROBLEM: Unclear whether item intent reflects degree of relaxation or just more relaxed.
S01		She did not read the skip the question in prior question. She said she would not answer this question.
S02	Definitely no	It was not a visit and you are always anxious before a surgery, no matter what. [definite problem: She just saw the doctor]
S03		Participant read sentir instead of “sentirse” I would delete “se” from “sentirse” . We already have the subject in “le”.
S11	Definitely Yes	NO PROBLEM. She was 100% calm and relaxed before the surgery, and also after the surgery.
S12	Definitely Yes	Was calm before the surgery, once you meet who will be doing it you feel better.
S13	Skipped	
Item summary		

17/32. Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?

- 0 Worst anesthesiologist possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best anesthesiologist possible

Goal: Determine if scale is appropriate and that respondent is using reasonable criteria for making a judgment.

How did you figure this out? What were you thinking about?

IF NOT '3': What would an anesthesiologist that is rated "3" be like?

IF NOT '7': How about a "7?" What would an anesthesiologist like this do or say?

ID	Survey response	Verbal response
E01	6	5-6. 6. I gave him the benefit of the doubt here. A 3 would be an anesthesiologist who has their assistant bring me the forms to sign. A 7 would be someone who made my wife and others feel more comforted.
E02	5	[Why 5?] Because he's not a 10. He didn't as if I had any questions, I say he half-way made it. A 3 would just be someone who came in and said, "I'm going to put you under and hope you bring you out."
E03	10	He was a last minute fill in for someone else, so he was a quick study. A 3 would be a non-communicative dud who did nothing to make me feel secure. A 7 would have done or said something to make me question his knowledge about his job. [No problem]
E11	(left blank)	"I've never had a bad anesthesiologist." "That question is not a good question. You have to have a reference point." [Definite problem: need to rephrase scale so that we can tell how "good" respondent thinks the anesthesiologist was]
E12	9	How figure out? "being that I saw him a week before... [he was] insistent that I ask all my questions." What would a 3 be like? "Someone who doesn't answer your questions properly, doesn't ask the proper questions, isn't very prompt, has a horrible

		bedside manner.” What would a 7 be like? “I think a 7, their bedside manner would be OK, they’d be prompt, they might answer most of your questions.” <i>[No problem]</i>
E13	8	“That’s a toughie.” “Not the best.” Wavered between 7 and 8, landed on 8. Suggest having a question prior to this one about how many surgeries the patient had had in the past, because she thought it would be helpful to know the comparison base people are using. How figure out? She was thinking about another anesthesiologist she had for another surgery, because with that one she felt sick after she woke up so that one was worse; she also thought about another anesthesiologist she had that visited her after the surgery, so that one was better. What would a 3 be like? “like my rotator cuff one.” Not very pleasant, she was sick when she woke up, and bad IV placement. What would a 7 be like? “That’s tough.... Just slightly less good on the things I mentioned.” Also suggested that maybe a word like “mediocre” for a 5 would be helpful, in addition to the guiding words at 0 and 10. <i>[Possible problem: maybe scale is too confusing/long/not enough guidance]</i>
E21	8	I don’t know what perfect is, so I can’t give a 10, but I know that they were very nice to me. One of them had done it for 10 years and one had been doing 15 years, so both had experience, and both had good bedside manner. 3-I would think snobbish, won’t answer questions, hateful. 7-Close to an 8, not much different. Maybe their bedside manner wasn’t quite as good, or didn’t have as much time. Had surgery previously. Response based on bedside manner
E22	8	He wasn’t the worst and he was better than average. He wasn’t the best there was, but he had more knowledge than any I know of. 3-He would probably know a little bit about surgery and putting people to sleep, but not as much as someone with experience. 7-He would know a lot but they may tell you advantages and disadvantages and might need to consult others to get help. Had surgery previously Response based on skill
E23	10	She had a pleasant personality, she covered things in a pleasant manner. She had a smile on her face. She gave me the information that I wanted and I didn’t have any questions afterwards. 3-More of a coming in with a poor demeanor, blunt, short, I am here to do my job and I don’t care about you. Non caring non personable attitude towards a patient. 7-getting someone who portrayed the information, but an average type attitude, didn’t smile, wasn’t ugly, wasn’t rude,

		nothing happy. Response based on bedside manner
E24	9	He took his time, he explained it. I guess he could have been a good looking woman. 3-he could be gruff, short, quick. 7-a little less than my guy. Somewhat detached, less attentive. Response based on bedside manner
E25	10	I don't have a lot of comparison information to go by. But no history to compare it to, I guess I would say 10 because everything went smoothly. They were quick to address the minor complication I had with anesthesia. 3-I don't know, miss the mark on the needle, not good at their job, give you something you are allergic to. 7-I guess good at their job all around, not going above or beyond, missing a joke or too. Response based on skill and bedside manner
S01		There are some typos in the Spanish version of this question (extra spaces) that need to be deleted She did not answer the question
S02		I am not sure about it, he just gave me anesthesia. She does not rate him [Potential problem ?]
S03	10	I did not have any problem with the anesthesia, I did not feel pain. So I guess I can give him a 10.. I would have rate him lower if I have felt some pain. [No problem]
S11	10	NO PROBLEM. He was very good because I don't remember anything of the surgery, I was out. In my country when I had my operation for my baby I felt something. Someone who gets a 3 must be bad because this is such a serious thing, an anesthesiologist should be good at what he does or else he causes pain to patients. Someone who gets a 7 is regular, they are aware of what they are doing. Someone with an 8 or 9 is good and someone with a 10 is excellent.
S12	10	NO PROBLEM. Because I didn't have any problems with the anesthesia, I woke up when expected. if someone got a 3, it would be because a problem occurred, maybe gave too much anesthesia, or patient gets sick, vomits, dizzy...
S13	Skipped	
Item summary		

YOUR PRE-OPERATIVE CARE FROM THIS SURGEON

These questions ask about your experiences with this surgeon and the surgeon's staff before the day of your surgery.

18/2. Was your surgery scheduled as soon as you needed?

- Definitely yes
 Somewhat yes
 Somewhat no
 Definitely no

Goal: Determine if respondent notices introductory sentence.

Determine if respondents are using "reasonable" criteria for determining their need for the surgery to be scheduled when it was scheduled.

INTERVIEWER: DID RESPONDENT READ OR SEEM TO NOTICE THE SENTENCE PRECEDING QUESTION 18?

YES NO DON'T KNOW

How come you said [RESPONSE] instead of [RESPONSE±1]?

When was the surgery scheduled for? Do you remember the scheduled date?

Was this as soon as you wanted it or not?

ID	Survey response	Read intro?	Verbal response
E01	Definitely yes	Yes	I was given the next available opening for surgery. It happened as soon as possible.
E02	Definitely yes	Yes	I only had to wait about a week before the surgery and during that time I had to go in for blood work and a bunch of other pre-operative things. Yes, it was as soon as I wanted.
E03	Somewhat Yes	She said she saw it, but did not read it	Definitely yes. It was scheduled as soon as possible. We had to wait an extra week because there was a holiday in there that interrupted it. I would have taken it earlier, but schedule wise it was fine for me. I guess I would say "somewhat yes" because of that holiday interruption. [No problem]
E11	Definitely no	Yes, he read the whole thing aloud.	He was very emphatic about his response. "[T]he condition I was in... was extremely critical... but the schedules were very difficult to change.... He could not schedule me until a month and a half later.... That was not acceptable." [No problem]
E12	Definitely yes	Yes	How come you said Definitely Yes instead of Somewhat Yes? "because after all of my testing had

			<p>been done... the doctor said 'we will schedule you for surgery right away'." He said he had to lose 20 pounds so there was room for them to work so he couldn't have the surgery <i>right away</i>, had to wait 3 weeks. As soon as wanted? "No, I wanted it the next day, but I understood why it couldn't be the next day, because I needed to lose that weight.</p> <p><i>[No problem]</i></p>
E13	Definitely yes	Yes	<p>"That's a hard one because so much comes into the 'as you needed'." How come you said Definitely Yes instead of Somewhat Yes? "Because I don't think I had... any problems... in other words I think I got it when I wanted it". Suggested adding an additional response option "I didn't have a choice"</p> <p><i>[Possible problem: got momentarily tripped up on the word 'needed']</i></p>
E21	DY	Y	<p>He convinced me to get it done. I wanted to procrastinate, but he definitely wanted it done. December 27. I was getting cortisone shots.</p> <p>I didn't want to have the surgery.</p> <p>Potential non-problem: Want would not have worked here because R did not want surgery.</p>
E22	DY	N	<p>Has a hard time reading out loud. I had a lot of biopsies. They had a surgery to take it out because it was inconclusive. Aug 7, 2007. They got it done as early as possible because I was already a cancer patient.</p> <p>Wanted: no, I wanted it sooner than a month. I was hoping within 2-3 weeks, but his surgery schedule was too full.</p>
E23	DY	N	<p>Yes it was. I was amazed the lack of time it would take. I thought it would take weeks or a month or more. The process from seeing the physician and the surgery was a month and a day.</p> <p>Scheduled as soon as wanted. But you never want surgery.</p> <p>Potential non-problem: Want would not have worked here because R did not want surgery.</p>
E24	DY	N	<p>Definitely scheduled as soon as I needed. Scheduled for 11/25. Wanted—fine; get it done before end of year.</p>
E25	SY/DY...DY	N	<p>No urgency for surgery. Is that SY or DY? It was somewhat optional. 10/31 Yes, it was as soon as you wanted it. It fit fine. I had 4 weeks notice. It gave me enough time to plan for work.</p>
S01	Definitely	No	<p>I did not want to get a surgery, but they insisted in that</p>

	yes		I had to have the surgery as soon as possible. [No problem] She understands “cuidados preoperatorios” as things you have to do when you are back home after you have a surgery, such as the food you need to eat, how you have to take care of yourself emotionally and the company you might want to have.[Definite problem: participant confuse pre with post]
S02	Yes	No	<ul style="list-style-type: none"> ▪ <i>She thought that “no mucho, no” was funny. She suggested to change it for “no mucho” and “un poco”</i> ▪ <i>When I went to the doctor he told me I had cancer and the surgery was scheduled 2 day after</i> ▪ Pre-Operative Care are for example all the things I had to read about that I did not have to eat anything before the surgery, so my stomach would be empty. [No problem]
S03	Definitely yes	yes	Participant read and said she would say pre-operatorio instead of pre-operativo [Potential problem] Participant reads “deseaba” (hoped) instead of “necesitaba” (needed) <ul style="list-style-type: none"> ▪ She thinks that “cuidados preoperatorios” are things such as the test that the patient need to take before the surgery to make sure it would be fine for her to have the surgery (x rays) [Definite problem on how person understands the concept]
S11	Definitely Yes	Yes	NO PROBLEM. Answered Definitely Yes vs. Somewhat Yes because when she visited the surgeon her health was very delicate and he listened to her. The surgery was scheduled for Aug. 2, 2007, the surgeon said it had to be done quickly because I'd waited for a year before I went to the doctor. SPANISH: cuidados preoperatorios significan lo que uno hace para prepararse antes de la cirugia, como decirle al cirujano mis sintomas.
S12	Definitely Yes	Y	NO PROBLEM. Definitely Y vs. Somewhat Y: because I didn't have to wait too long for the surgery. It was scheduled for September. SPANISH: cuidados preoperatorios mean things like checking my blood pressure, checking my heart before the operation.
S13	Definitely No	Y	NO PROBLEM. Definitely No vs. Somewhat NO: I had a work accident, went to the ER and they tried to set it without surgery. Then they sent me for an xray. 3 days later, we talked about surgery. Not as quickly as I wanted. SPANISH: cuidados preoperatorios son cosas como que puedo comer antes de la operacion, que tanto tiempo debo ir en ayunas, la hora en que tengo que estar, en que condiciones.
Item summary			

19/3. Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine how respondents who don't want information answer this question.

About how much information about your surgery did you want?

Do you think you got this much information or not?

IF INCONSISTENT WITH THEIR RESPONSE TO Q.19, SAY: So, can you explain a little more about why you said [RESPONSE TO Q. 19]?

ID	Survey response	Verbal response
E01	Somewhat yes	I was kept somewhat in the dark by his staff about my recovery. There was a language barrier. My post-surgery nurse gave me incorrect instructions about how much I was supposed to walk after the surgery because of a language barrier. I was comfortable with the information the doctor gave me. [Definite problem; the majority of respondent's consideration when answering question is about information regarding recovery, which was shared after his surgery. Although he did take into account information received from both surgeon and staff.]
E02	Definitely yes	She gave me a brochure and explained the surgery. She said she's done five surgeries like this before that were successful. She assured me that she had a good batting record. [Respondent focused more on wanting to know information about how capable his doctor was to do the surgery than what would happen during the surgery.]
E03	Definitely yes	He showed me pictures. It was more than enough information. We made a decision about whether or not to do steel rods. He included me in the decision. [No problem]
E11	Somewhat yes	"Yes, yeah, they gave me enough... except that I had to do research on my own..." "I wish I had known more risks." "[The surgeon] should have been more careful about pointing out more side effects and more risks." [No problem]
E12	Definitely yes	How much did you want? "I wanted it all!" Do you think you got it? "I got every bit of information." [No problem]
E13	Definitely no	(emphasized "enough" when reading). "This is a really tricky one." "In a sense absolutely not, because I asked the right questions but I didn't get the right answers." How much info did

		<p>you want? “A lot” Do you think you got this much information or not? “I thought I did, but as it turned out, no.”</p> <p><i>[Possible problem: different respondents may interpret ‘enough’ differently]</i></p>
E21	DY	<p>Yes, they told me what it would look like, what would go in my knee, how I could find out how the surgery would be performed. Nothing was left out. I didn’t know anything about it how a knee could work. I wanted too much information. Sometimes you don’t need to know everything; like how the surgery is performed (saw a real life surgery on line)—it was fine, I wanted to know, I wasn’t afraid of seeing the surgery. It helped me be prepared.</p>
E22	SY	<p>They gave me all the pros and cons, what I was going to be up against, put to sleep, what it was like when I woke up, how the anesthesiologist would take care of me. I was hoping to find out before that it was cancer, rather than after.</p> <p>PROBLEM: Response doesn’t indicate poor care—it would have been DY if she knew she had cancer, but that was impossible, hence the surgery.</p>
E23	DY	<p>I remember vividly him doing a prognosis. I remember we talked about the options, what he thought it was, what complications he thought would come up if we waited. I also noted that he asked questions, he never pushed me in a direction. He said what my options are, but noted issues of certain options.</p> <p>I wanted as much information as possible. I wanted to weigh all of the decisions to see if I could get out of the surgery. Finances weighed in on it. Is it cancer? Yet I didn’t want to wait because of the anxiety. I just liked the comfort. Very comfortable. He even said that this is my best guess. I got all of the information.</p>
E24	SN	<p>I had specifically asked them how much it would cost and they said to call my insurer. I was definitely unhappy about the financial insurance stuff. As far as the medical procedures, I couldn’t been happier. Getting numbers out of these people was difficult. The doctor information was fine, but the financial information I could not get.</p> <p>PROBLEM: Response unrelated to surgery, relates to finances.</p>
E25	DY	<p>(wife is nurse). The main piece of information I wanted was that it was straightforward, easy, common. After that I was comfortable. All of the technical details I didn’t need and I probably couldn’t retell the information.</p>
S01	Somewhat yes	<p>The doctor did not warn me about some of the consequences of the surgery. I actually reacted badly and no one had told me about that [Potential problem. I am not sure if this questions also refers about the consequences of the surgery]</p> <p>She says she would say “llevar a cabo una operación” o :completar una operación”</p>

S02	Definitely yes	<ul style="list-style-type: none"> ▪ I wanted a lot of information because I was scared about the surgery, he told me about the risks and benefits of the surgery. [No problem] ▪ ‘realizar una cirugia’ is ‘hacer una cirugia’ She prefers hacer
S03	Definitely yes	<ul style="list-style-type: none"> ▪ If she had to choose between hacer or realizar, she would say ‘hacer una operacion’ Please note that in any case she used the word ‘operacion’ instead of ‘cirugia’ Do we want to probe on that next time? It has not been a problem, but my guess I that people say operacion more often. It is more colloquial. ▪ I asked many questions to the surgeon, like if they were going to open my stomach and he answer all the questions I had.ahd
S11	Definitely Yes	NO PROBLEM. I wanted a lot of information, this was new to me and it was scary I thought I might die. But they gave me information and I felt better. They gave her the right amount of information. SPANISH: realizar una cirugia quiere decir hacerla, hacer una cirugia. Significan lo mismo pero you so mas ‘hacerla.’
S12	Definitely Yes	NO PROBLEM. I wanted to know what to expect and the surgeon did tell me what was wrong and why I needed the surgery and what I needed to do before. SPANISH: realizarla es lo mismo que empezar y terminar, hacerla. significan lo mismo, no prefiere ninguna, las 2 son igual.
S13	Somewhat Yes	NO PROBLEM. I wanted to know what I needed to take or leave at home, who should come with me, what to do to prepare. I don’t know if I got what I needed. The pain was worse than I expected, medicine didn’t help much. SPANISH: realizarla es lo mismo que hacerla, prefiere hacerla.
Item summary		

20/4. Before your surgery, did this surgeon or this surgeon's staff use diagrams, models, videos, or other materials to help explain things to you?

¹ Yes

² No

Goal: Determine if there are appropriate reasons for a negative response.

IF YES: How did they do this?

IF NO: Why not?

Did you want them to explain things to you or not?

ID	Survey response	Verbal response
E01	No	He showed me a photo of the growth and drew a sketch about how they were going in, but I wouldn't count these materials. I think the question refers to institutional type materials, like what might be used in a classroom. [Problem? Would survey developers like these types of materials to be considered?]
E02	Yes	She gave me a diagram and explained that she would follow the pattern of a scar left from a previous surgery.
E03	Yes	He used diagrams, models, and the computer to show me x-rays. He used his finger to show the joints of my toes. [No problem]
E11	Yes	"They have a chart and a diagram... and they explain what they are gonna do." "I wanted to know what they were gonna do [to] my body." [No problem]
E12	Yes	"He had a little thing... that showed the intestine." "He gave me a lot of materials from a, uh, online website." [No problem]
E13	No	Why not? "maybe not relevant?" Did you want? "I don't know" [Possible problem: surgeon didn't use diagrams and I don't know if her reasons for not doing so were appropriate]
E21	Y	Video, diagrams, no models, online video. Pamphlet explaining procedure to tell me about this.
E22	Y	They used models and pictures what the thyroid actually look like, and what it would look like afterwards. There was a poster, a bad thyroid vs. a good thyroid, how far it was going to be cut and everything.
E23	N	I think he just actually used the lump. He just said this is here, this is there. I think because mine was so visible, on the surface. He was very animated on me. He explained everything but didn't need a diagram to do it. PROBLEM. His response, "No" did not represent a negative response, which I assume is the intent of the question.
E24	Y	He had a model of a nasal passage, a nose, and a face. I had a

		deviated septum, a polyp removed. He explained everything what he would do.
E25	Y	They used models, they had a shoulder socket. It was helpful. Used MRI film to point out exactly the problem area.
S01	No	<ul style="list-style-type: none"> ▪ No, I did not see any video. I just asked them about how big the scar will be. I probably did not want to have more information either, because I would have been more nervous [No problem] ▪ Note for the Spanish team; Don't you think that "las cosas" sounds funny? Doesn't it sound funny in English as well? What are "las cosas"?
S02	yes	The doctor showed me a picture with the area of my body where he would do the surgery. [No problem]
S03	No	I did not see any video, but I don't know if I have liked it. [No problem]
S11	Yes	POSSIBLE PROBLEM. He drew it on me and showed me what they were going to do. She is confusing the drawing they do right before surgery vs. any visits before the surgery to really explain what was going on.
S12	Yes	NO PROBLEM. He didn't use a video, just the xrays. but that counts as a picture.
S13	No	NO PROBLEM. I only saw my xray, I never saw a model or a book or a paper. In physical therapy I saw a book with pictures of my exact surgery, and I don't know if it would have helped or made me more nervous. But it helped me understand it better. I did want more explanation, patients want to know what is being done to their body.
Item summary		

21/5. Did this surgeon or this surgeon's staff give you easy to understand instructions about getting ready for your surgery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if 'getting ready for surgery' is interpreted consistently.
Determine if scale is working as intended.*

*What do you think they mean by "instructions about getting ready for your surgery?"
Can you give me some examples of these instructions?*

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

ID	Survey response	Verbal response
E01	Definitely yes	[Mean by "instructions about getting ready for your surgery"?] Signing forms, telling me to be relaxed, don't be stressed, don't worry.
E02	Definitely yes	They gave me a gown and made me comfortable in the bed. It was cold in the operating room, so they gave me a lot of blankets and that made me feel better. They catered to my needs and told me to relax. [Why not 'somewhat yes'?] The approach they took and the treatment was very professional. They noticed I was nervous and tried to relax me.
E03	Definitely yes	It was the same instructions I get for all of my surgeries because of my other health needs. They told me what to do, what not to do, what to expect. There were no unsaid issues. [No problem]
E11	Definitely yes	"They have everything in writing." The instructions they told him about were abstinence of food or drinks, and the types of medicines he was/was not allowed to take. He said he picked Definitely Yes instead of Somewhat Yes because he "couldn't think of anything else that they could have told [him]" [No problem]
E12	Definitely yes	"very much so." "They told me exactly what I needed to do." don't drink soda and don't eat for 24 hours before the surgery. What do you think they mean by...? "When you need to stop eating, and I think that the Why is very important." Why did you pick Definitely Yes instead of Somewhat Yes? "He was very very adamant and very clear." [No problem, but maybe could be dichotomous]
E13	Definitely yes	(emphasized "easy to understand" when reading). What do you think they mean? "What you need to do like a week, two weeks prior." Talked about prep, like if you can't eat anything 12 hours before surgery. Why did you pick Definitely Yes instead of Somewhat Yes? "Because... it was not unclear... it was clear what I wasn't supposed to take... it was specific" (but she had

		wavered between Somewhat Yes and Definitely Yes initially) <i>[No problem]</i>
E21	DY	It was nothing difficult about it. Don't eat after 12, bring someone with you, have comfortable clothes, that was it. DY because I didn't have any questions. There was nothing they didn't tell me.
E22	DY	What I would need; getting lab work done, eating after midnight, waiting after surgery to eat, whether I would need to stay over night which I did, bringing extra clothes, what I needed to have done before surgery, I needed blood drawn, like a pre-op type thing. DY: they were real thorough about where to go
E23	DY	They discussed getting ready, not eating—now is “getting ready” part of the process of surgery—does this include setting up appointments. They gave me sheets about do this and don't do this (not eating). They had a surgery coordinator. She gave me different dates and times, worked with my schedule. She went into payment. She pulled up my insurance and said what I would be responsible for. Surgery coord part of surgeon staff. DY vs SY; I left with no questions, no loose ends. She answered all questions.
E24	DY	They gave me a piece of paper explaining what I should do and not do the night before; no medicine, no alcohol, no food after a certain time. DY: they explained very well. POTENTIAL PROBLEM: Paper only.
E25	SY	The pre-op instructions. Getting ready was straightforward. No eating 12 hours beforehand. They told me what I could expect as far as the anesthesiologist. But also, they gave me post op instructions as well. Some materials, like an arm sling and an ice contraption; that was probably better to get later. I forgot everything anyway. PROBLEM: Includes post op instructions as well in response; would have probably changed it if just pre-op. Instructions—mainly eating. Don't want food to conflict with medicines. They stressed to be on time.
S01	Definitely yes	She said yes! But when I asked about what does she think “instrucciones sobre como prepararse para la cirugía” is, her examples where “taking my daughter to the dentist and do nice things for my family because after a surgery you never know if you are going to come back” [potential problem, I think she was confused about my questions when I probed, but I think she understood the question right, she just was not able to come up with examples so she gave me examples about how she prepared herself in her personal life for the surgery]
S02	Definitely yes	They told me about what I could eat and what I could not and told me I had to drink a liquid to clean the stomach [No problem]
S03	Somewhat yes	<ul style="list-style-type: none"> ▪ Are you asking me about what the surgeon told her/his staff or to me? I don't know what the surgeon told his staff. I

		<p>cannot really answer how the surgeon prepared his staff. [Definite problem. Participant is reading “a” (to) instead of o” (or) Somehow she decided to answer the question anyways.</p> <ul style="list-style-type: none"> ▪ When I asked her what “instrucciones sobre como prepararse para la cirugía” her examples were about getting direction on how to get to the hospital, bring comfortable clothing and having someone driving her because she will not be able to drive back home [Potential problem: I am not sure if this is what they are trying to get from this question. My guess is that it should be more medically related...]
S11	Definitely Yes	NO PROBLEM. This means things like fasting, or not drinking water, not taking medications before surgery. Things I need to do before the surgery. Chose Definitely Yes vs. Somewhat yes because the surgeon explained himself well, very clearly. If I’d chosen somewhat yes it would mean he didn’t explain things well.
S12	Definitely Yes	NO PROBLEM. This means how long it will take, what to do to prepare and what to do after. Chose Definitely Yes vs. Somewhat because I’m certain that he did and somewhat yes means that I’m not certain that I have some doubts.
S13	Somewhat Yes	NO PROBLEM. This is information like what I should do to prepare for surgery, diet, dress. Answered Somewhat Yes vs. Always because they didn’t tell me everything and the people who admitted me told me some things as well, not just the surgeon.
Item summary		

22/6. Before your surgery, did you phone this surgeon’s office with a medical question?

¹ Yes

² No → **If No, Go to Question 24**

Goal: Determine if 'medical question' is interpreted as intended.

What do you think they mean by 'medical question?' Can you give me some examples?

IF YES: What medical questions did you call about?

ID	Survey response	Verbal response
E01	No	[Didn't call because he felt prepared. He interpreted "medical question" through the example of maybe asking about how his heart would be affected.]
E02	No	I didn't have any questions, so I didn't need to call her. She explained everything before hand. I think by "medical question" they mean anything relating to the medical, like treatment after surgery, any complications, problems with the anesthesia, etc.
E03	No	I had taken care of all of my questions beforehand. I think for me a medical question might have been about my Cellulitis or concern over a new infection. [No problem]
E11	Yes	In answer to "what do you think they mean by 'medical question'," he said "The way I take it is suppose the condition got worse, should I take more antibiotics..." [No problem: he seemed to interpret "medical question" without any problems]
E12	No	What do you think they mean by 'medical question'? "Will I need any blood, will I need to bring my medications with me." [No problem]
E13	No	What do you think they mean? "Preparation for the surgery, the surgery itself... anything connected to surgery." [No problem]
E21	N	It would have to be pertaining to your surgery, something you would want to know.
E22	N	I would say if you have a question about taking medicine before going in for surgery, what to wear, basically if I needed medicine before hand.
E23	N	Probably maybe if you did not understand or get the information that you needed going into surgery. For example, you aren't supposed to eat before hand, or if something cropped up with your ailment before the surgery. Or if you were anxious about it, asking about questions.
E24	N	No, not a medical questions. Pertaining to the surgery aspect. I phoned several times about the finances. PROBLEM: Included finances when answering this question.

E25	N	Examples are any items to ask, sometimes you just listen to the doctor and you aren't thinking, then you go home, you figure out a question to ask.
S01	No	The surgeon had given me all the information I needed 3 weeks before the surgery.[No problem]
S02	No	I did not have any question [No problem]
S03	No	I did not have any question. A medical question would be about what I could eat or not before the surgery. [No problem]
S11	No	NO PROBLEM. Missed Skip Pattern. Medical question means if I had any questions about the surgery, if I had any doubts.
S12	Yes	NO PROBLEM. Medical question: if you don't understand something then you call to ask. Anything from your exam or lab results or what to do before the surgery. I called about the lab work and exams I was going to have, can I eat before or not.
S13	No	NO PROBLEM. It means questions like if I have asthma or allergies, do I need to do something before my surgery. If that will be a problem.
Item summary		

23/7. Before your surgery, when you phoned this surgeon's office, how often did you get an answer to your medical question as soon as you needed?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if scale is appropriate for this question.

Determine how respondent makes judgment about whether the answer was "as soon as needed."

What do you think they mean by "as soon as you needed?"

About how many times did you call with medical questions?

And, about how many times did you get answers as soon as you needed?

IF RESPONSES APPEAR INCONSISTENT WITH ANSWER TO Q.23, PROBE TO DETERMINE REASON FOR DISCREPANCY.

ID	Survey response	Verbal response
E01	Skip	Appropriate skip
E02	Skip	Appropriate skip
E03	--	Skipped correctly
E11	--	(Skipped correctly)
E12	--	(skipped correctly)
E13	--	(skipped correctly)
E21		<i>Should have skipped</i>
E22		<i>Appropriately skipped</i>
E23		<i>Appropriately skipped</i>
E24		<i>Should have skipped.</i>
E25		<i>Appropriately skipped.</i>
S01		Skipped it correctly
S02		Skipped it correctly
S03		Skipped it correctly
S11	Never	NO PROBLEM. Didn't follow skip pattern. "As soon as you needed" means if it was fast, how quickly they attend a person and call them back.
S12	Usually	NO PROBLEM. As soon as I needed it means that if I have a question like a medicine is making me feel bad that I call to ask and I get an answer right away. I called twice with a question and once got the answer when I needed it.
S13	Skipped	Skipped correctly
Item summary		

24/8. Before your surgery, how many office visits did you have with this surgeon?

- ¹ None --> **If None, Go to Question 33**
- ² 1 Visit
- ³ 2 Visits
- ⁴ 3 Visits
- ⁵ 4 to 6 Visits
- ⁶ 7 or more Visits

Goal: Determine if all visits are being included or just visits related to this surgery.

Do you think they are asking about all the visits someone has ever had with their surgeon or only visits related to this particular surgery?

Why?

ID	Survey response	Verbal response
E01	None	[Respondent was already in the hospital, he never met with this doctor before he came into his hospital room.]
E02		
E03	2 visits	I think they are only interested in visits related to the surgery. [When asked why he said because “she asked me to come in to ensure I would have the surgery and do blood work”. I don’t think this was an item problem, more a probe problem.]
E11	7 or more ³	I’ve had many, many, many, many visits. I think this is asking about all visits related to this situation, which involved three surgeries. [Possible problem; is that the item was intended to be interpreted, or only for the particular surgery?] He said he thought the question was asking about this particular surgery, “because I had all the other surgeries in my life... it’s very specific.” [No problem]
E12	2	This particular surgery. “because they’re saying ‘before your surgery’” Said that if they were asking about all visits with this surgeon then they would have said “before your surgeries.” “Or they would have said ‘considering your medical history with this doctor...’ “ He said, “it’s singular.” “With this particular wording of the question I have to conclude that they’re talking about this surgery.” [No problem: paid attention to wording and interpreted correctly]
E13	2	“That’s hard to remember.” (said that if taking the survey at home she would look at her calendar to determine answer to this). Do you think they are asking about all/this? Respondent said <i>this</i> . Why? “before your surgery”. “well did they mean [surgery] number one or [surgery] number two?” She suggests maybe changing the wording to “before this surgery.” [No problem with interpretation but respondent still suggested changing the wording to make it even more clear]

E21	4-6 visits	One for this, one for that, one for another.... This asks about this particular surgery. Had shots and drainages to see if I needed surgery; tried not to have surgery.
E22	2	I know I had at least 3. Actually I think 2. I know I had one to talk to him and he asked me if I had questions, and I asked about the surgery. Second time was when he did the biopsy and he asked me about having it out, the advantages and disadvantages. I would think that it pertains to this surgery only. But then the doctor would want to know about past surgeries.
E23	1	For him to examine me. I can't think of a reason why you would have additional visits with a surgeon. This surgery
E24	1	Just the particular surgery . I saw him only 3 times; the initial consult, the surgery, and the post op.
E25	3	I went to one doctor surgeon multiple times who didn't recommend surgery. He was my second opinion. The first one was a medical evaluation, I got an MRI, and during the second visit he gave me surgery as my option. Wait, I went a 3 rd time, to discuss surgery and went over the details (pre-op appt) Particular surgery
S01	2 Visits	I was thinking in the visits I had with this doctor related with this surgery [No problem]
S02	1 Visit	I had one more visit where we talked about the surgery. He is my OBGYN so I have seen him many other times. [no problem]
S03	7 or more Visits	I was thinking in the visits I had with this doctor related with this surgery [No problem]
S11	3	NO PROBLEM. This refers to the visits that had to do with the surgery.
S12	7 or more	NO PROBLEM. It's about all of them not just surgery, I was going to get cortisone shots. and we'd also talk about the surgery.
S13	1	NO PROBLEM. It means all visits having to do with the surgery.
Item summary		

25/9. During your office visits before your surgery, did this surgeon talk to you to find out about important things in your medical history?

¹ Yes

² No

Goal: Determine if "important things in your medical history" is being interpreted consistently and properly.

Determine if discussions with the surgeon's staff are being included.

Determine if there are appropriate reasons for these discussions to NOT have been conducted.

What do you think they mean by "important things in your medical history?" What are some examples of "important things" in someone's medical history?

IF YES: Tell me a little more about this surgeon talking to you to find out important things about your medical history. What things were talked about?

Who did this -- the surgeon, the surgeon's staff, or both?

IF NO: Why not?

ID	Survey response	Verbal response
E01	Skip	Appropriate skip
E02	Yes	She asked me about my family history of drug use, surgeries, bleeding and so on. The surgeon asked me all of the questions and made notes in her chart that her staff would probably read.
E03	No	I don't know if he asked anything new specific to this surgery. I've been with him for 3-4 years and through 17 hospital stays, so he already knows my medical history. [No problem]
E11	Yes	In response to probe, he said "like, previous medical conditions like if you had TB..." also mentioned diabetes, "conditions that could conceivably interfere with the procedure." The surgeon himself talked to him about medical history. Didn't include discussions with surgeon's staff but that was because there weren't any discussions with the surgeon's staff. He said it was the surgeon himself. [No problem]
E12	Yes	"Kind of a confusing question." Read the question over, starting from "did this surgeon..." What do you think they mean by 'important things in your medical history'? "if you'd had any liver problems, history of heart problems, a history of high blood pressure." Tell me more. "If I had any more illnesses or anything like that." Who did this? "The surgeon." [No problem]
E13	No	What do you think they mean? Allergies, symptoms, past surgeries. Why not? "Maybe she didn't think it was relevant, or..." (mentioned that they already have all her records on file at the medical group so maybe the surgeon thought she didn't

		need to ask) <i>[No problem: reasons for not doing so seem appropriate since they have her records on file]</i>
E21	Y	Lifestyle, operations before hand, allergies, medications, how long I had had problems with my knees. The surgeon asked me these questions.
E22	Y	If you have ever had surgeries, medical history, hypertension, diabetes, so they know when they put you under in surgery, or if you haven't slept during anesthesia, or if you have had reactions. He wanted to know about leukemia. Who: the surgeon.
E23	Y	Sheet you fill out when you arrive, asking about other surgeries, medical conditions. He (surgeon) asked me about surgeries specifically. He wanted to know if related to another surgery. Important: He would want to know if one thing related to another. I had a vasectomy and then a hernia; for that surgery it took much longer than anticipated because of the vasectomy. The surgeon asked me.
E24	Y	They give you a list of stuff, have you have ever had this that and the other, jungle fungus, I did tell him about Crohn's disease. He read the paper, he had good bedside manner, he looked over the medical Record, he was shocked that I didn't take any medication, and asked some questions. The surgeon. I don't think I spoke to anyone else, other than the finance folks. He had no assistant that came in first.
E25	Y	He talked to me about how the problem originated. That was about it. I went to him for my shoulder. I guess yeah. Important things about my medical history seems vague, this was about my shoulder. (young & healthy, no history....)
S01	Yes	<ul style="list-style-type: none"> ▪ In the Spanish version should be habló instead of hablo. ▪ Other disease or medical problem [No problem]
S02	Yes	We talked about prior or genetic diseases I might had have . When I probed, I realized she was referring to the form she had to fill in when she goes to the doctor, which in her case has filled in by a nurse. [Definite problem]
S03	No	The doctor was recommended by my friend so I did not have to investigate about his "antecedents medicos" I did not ask him either. [Definite problem in the Spanish version. She is thinking about the medical history of the doctor. Maybe we can say "historia medica"]
S11	Yes	NO PROBLEM. Medical history means things like my symptoms, how long have I had them, what illnesses I have had before. He asked me how often do I have checkups, how old I was when I had other illnesses. Sometimes it was his assistant but almost always it was the surgeon.
S12	Yes	NO PROBLEM. This means things like any illnesses you have, blood pressure, cholesterol, heart problems. We talked about the medicines I take and for what. Talked to the surgeon about it.

S13	No	NO PROBLEM. It refers to things like heart problems, blood pressure, any medical conditions you can have. I don't know why, maybe because he was a surgeon and was preoccupied with my hand.
Item summary		

26/10. Choices for treatment can include choices about surgery, medicine, or other treatment. During your office visits before your surgery, did this surgeon tell you there was more than one choice for your treatment?

¹ Yes

² No --> **If No, Go to Question 28**

Goal: Determine if "choices" are interpreted to mean medical choices.

IF YES: Tell me about the choices that were discussed.

Is this question asking about the choice of whether or not to have the surgery -- or is it asking about something else? IF SOMETHING ELSE: What else?

ID	Survey response	Verbal response
E01	Skip	Appropriate skip
E02	Yes	She explained that if I didn't have the surgery there would be more complications later on. [Question asking about choice to have surgery or something else?] Both. I think the choice to have it or not and about the different treatment options if I chose not to have it.
E03	Yes	We tried some of the choices. That's why we had three surgeries. The other options didn't work. I think this question is asking about whether or not to have the surgery. [No problem]
E11	Yes	Discussed different types of surgery that can be performed on the prostate. In response to the last probe, he said "no, about <i>which</i> type of surgery to perform. The way he explained it to me, if I don't have the surgery, I'm gonna be dead in a few weeks." <i>[No problem: interpreted "choices" correctly]</i>
E12	No	"I'm taking it to mean about the surgery, whether to have it or not." "I'm reading it in my mindset, and there was no other choice." <i>[Possible problem: 'choices' was interpreted correctly as medical choices, but E12 interpreted it differently than E11. One interpreted as surgery or no surgery, the other interpreted it as which type of surgery]</i>
E13	No	"This is a lot for... just a yes/no answer." "That's a hard one." "I think my only choices were do it or don't do it." Is this question asking about...? Respondent reread end of first sentence, then gave examples: surgery, medicine, acupuncture. <i>[Possible problem: maybe some sort of visual separation (spacing?) between first and second sentence]</i>
E21	N	Again, we tried all these things. I don't know how to answer this. I would say no. I went through all of the other types of treatment to address the problem in the knees; there was nothing left but to have surgery or walk with a walker.

		It is asking about all the treatment choices, not just the surgery. PROBLEM: R went through the other options and ended up having surgery; the response should have been “Yes.”
E22	Y	He told me first that we could look at it and keep our eye on it over the next couple of months, or have biopsies, and then decide on surgery. It was up to me if I wanted surgery or to wait. He said it wouldn't bother me to have it for awhile, but I wanted it out. There was a medicine to shrink it. After I told him I wanted it out, he said that was my choice.
E23	Y	<i>Yes—Already described this in detail.</i> He did say I didn't have to have surgery, but waiting it would have made later surgery more difficult. He was concerned that it could grow further into the lymph nodes. I had more than one choice, but not multiple.
E24	N	No, because the reason I did it is because I couldn't breathe through my nose, my nose was crooked, and I knew before I went that I wanted that fixed. I guess the other choice was not to have surgery. In this case, I was adamant about having it done. I don't know if there was an option. I think it is asking about whether he gave me other options than surgery. PROBLEM: “No” response is not a negative in this case; it just reflects respondent's behavior about not considering other choices.
E25	Y	Choices for my treatment? Is surgery a treatment choice? I guess I would assume he is asking about different surgical treatments, different medicines regarding the surgery. There was the optimal choice. It was an easy choice to pick surgery—noninvasive easy surgery (?!). There were other options, but they weren't viable. I didn't have any disagreements. PROBLEM: Only included outdated surgical choices as options, and not other treatments.
S01	No	There was no other option. I needed to have a surgery [possible problem] She does not skip the next question [Potential problem]
S02	No	<ul style="list-style-type: none"> ▪ I had no other option, I needed a surgery. [No problem] ▪ She did not skip the following question [Potential problem]
S03	Yes	The doctor said I could have taken my uterus now or have the surgery he did and then try this method for 2 years. If it did not work, then we could take the uterus out. So we decided wait as much as we can to take the uterus out. [No problem]
S11	Yes	NO PROBLEM. He told me that in my case, my illness was advanced and that I could have other treatments but that it wouldn't help. At my stage it was not good, it was hard but I'm glad he told me that. Other things that can be done besides surgery? things like drinking tea, eating better, taking meds.
S12	No	NO PROBLEM. we didn't talk about any other options because there were none for me but surgery.

S13	NO	NO PROBLEM. Yes, it can mean not having surgery like if it was a different type of break maybe they could have reset my hand.
Item summary		

27/11. During your office visits before your surgery, when there was more than one choice for your treatment, did this surgeon ask which choice you thought was best for you?

¹ Yes

² No

Goal: Determine if respondents are interpreting this item literally (i.e., the surgeon asking "Which choice do you think is best for you?").

IF NO: Why do you think the surgeon didn't ask which choice you thought was best?

How did the surgeon know which choice you preferred?

IF YES: How did the surgeon do this? How did the surgeon figure out which choice you thought was best for you?

ID	Survey response	Verbal response
E01	Skip	Appropriate skip
E02	Yes	She considered my age and how much I use my hands.
E03	Yes	Well, we tried all of the other choices. [No problem; she previously discussed the decision not to use steel rods in her case because of her diabetes.s]
E11	Yes	"Indirectly he asked me." [No problem: didn't have trouble interpreting the "which choice" issue]
E12	--	(skipped correctly)
E13	--	(skipped correctly)
E21	Y	I definitely wanted to avoid surgery. I hope it was his expertise in knees and hips. I took cortisone steroid shots, I avoided surgery.
E22	Y	Basically he gave me options to leave it in or take it out; suggested that I would have complications later it on if I don't do anything, or there may be no problem. He said that I had the right decision to have it out. I think the question could be worded differently. She waited awhile to answer so I asked about it.
E23	Y	Yes, he didn't push me into a decision; he gave me all of the information, but let me know that I had to make the decision. At some point he asked me if I had a preference.
E24	Y	Verbally. I told him I couldn't breathe, he said I know why and I can fix it. I said, let's go! It is that simple.
E25	N	No, it was an obvious choice to go with least intrusive surgery. PROBLEM: E24 and E25 responded totally differently but had the same reason: the choice was obvious.
S01		She had answered yes and the deleted the question because she realized she should had skipped it. She gave important

		information though, she said that she had to have the surgery, but the doctor have her choices of what kind of valve she could have [No problem]
S02	No	There was no other option [Potential problem: She should have no answer this question]
S03	Yes	I asked the doctor what was the right thing to do, and after he explained the options she said that it depended on me. [No problem]
S11	Yes	NO PROBLEM. He told me what could be done, all the different things but he also told me what he recommend.
S12	Skip	Skipped correctly
S13	Skip	Skipped correctly
Item summary		

28/12. During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?

¹ Yes

² No

Goal: Determine if "risks and benefits" is interpreted correctly.

Determine if talks with staff are being included.

IF YES: Tell me about this. What was discussed?

Were these discussions with the surgeon, the surgeon's staff, or both?

IF NO: Why not?

What do you think they mean by "risks and benefits of your treatment choices?" What are some (other) examples of this?

ID	Survey response	Verbal response
E01	Skip	Appropriate skip
E02	Yes	The surgeon talked about what could happen and the risks of surgery and the healing process. The possible side effects like losing feeling and such.
E03	Yes	Nothing else was working. He told me about the risks of infection and the benefits of getting rid of the pressure sores.
E11	Yes	Discussed with the surgeon himself. Regarding risks, he said "in case of this type of surgery is incontinence, and you may not be able to have children, and infections." (later also mentioned not being able to produce sperm or have pleasure during sex). "The other things are inconvenience, pain." <i>[Definite problem: focused only on risks. Maybe the benefits part could be a separate question]</i>
E12	Yes	Said that the surgeon explained that it had a lot of risk involved because he had a fatty liver. Also, "he told me in detail about the benefits." (listed many). Who? "Just with him." What do you think they mean by risks/benefits? For risks: "They could talk about... the desired effect may not happen." For benefits: "better health, the end of the chronic problem that you have." <i>[No problem]</i>
E13	No	"Too cut and dry." (suggested the somewhat scale). "The information was not clear enough, complete enough." (she and her surgeon didn't discuss what ended up happening which was that her trapezius was rendered inactive.) Considered changing her answer to yes but then didn't. <i>[Possible problem: maybe more refined scale. But no problem in terms of not including discussions with other staff, and risks/benefits seemed to be interpreted correctly]</i>

E21	Y	It would only be a short time fix but it would possibly help me to off set the time before I needed surgery. It was better to wait. I would need to replace my knee in 10 years. Just the surgeon. I only saw the PA once. Always the surgeon.
E22	Y	He told me the pros and cons for leaving it in and getting it out. Surgeon and nurse together discussed it with me. They were concerned mostly about blood loss.
E23	Y	Because as far as the risks: not doing surgery might mean growing into the lymph nodes, making it difficult. It is easier to take out now. It was growing quickly. I noticed it 2 weeks before the physical. It was a large lump. The surgeon.
E24	Y	Well we talked about how the polyp was blocking my ability to breathe through the nose, and how my mom had the same conversation. Surgeon.
E25	Y	He talked to me about the risks and benefits. Risks were extremely minimal since the surgery was so common. The only risk was the recovery and how limited I would be in the months to follow. The benefits were that I would regain full motion in my arm.
S01	Yes	We talked about the different kind of valves I could use. [Potential problem: Participant did not mention anything about risks and benefits, but when I probed she said the doctor talked about the risks to her]
S02	Yes	The doctor explained all the risks about having anesthesia and about the specific surgery. He told me he was going to “scraped” me and if that did not work we need to take the uterus out.
S03	Yes	The doctor said that if I did not take my uterus away the problem might be serious [No problem]
S11	Yes	NO PROBLEM. We talked about the risk of surgery since my case was advanced. I talked about this with the both the surgeon and the staff.
S12	NO	NO PROBLEM. There was no option. Risk refers to what could go wrong, benefits is that one will get better.
S13	No	NO PROBLEM. He only talked about fixing my arm. Didn't explain how well it would turn out, or the risk of infection, or the risk of rejection of the implant. Risks: mean things that can go wrong because of the surgery. Benefits: means that the surgery can improve the problem.
Item summary		

29/13. During your office visits before your surgery, how often did this surgeon listen carefully to you?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if this scale is working properly.

Determine if respondents can make appropriate judgments about the surgeon's attentiveness.

What do you think they mean by "listen carefully to you?" That is, what did the surgeon do or say that showed he/she was listening carefully to you?

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

SHOW ALTERNATE VERSION. There are different ways of asking questions. I'd like you to answer this wording of the question. Don't forget to think out loud as you're answering the question.

Which question did you prefer?

- Never - Always*
- Definitely Yes/No*
- No preference*

Why?

ID	Survey response	Which version?	Verbal response
E01	Skip		Appropriate skip
E02	Always	Definitely Yes/No	She always asked if I understood and took my concerns to heart. She took notes on what I said so I knew she was listening. She always behaved like this. The second version is better [definitely yes/no – he answered “definitely yes”] because you hear it more with that question, it’s definite.
E03	Always	Definitely Yes/No	He sits and is quiet, I have his attention, his back isn’t too me. He listens as well as he always does. I think the alternate better [answered “definitely yes”] because of the placement of the wording. It flows better, I got a little confused with the first one. I think the “how often” makes you think in terms of numbers, but there aren’t any numbers given.
E11	Always	Never-Always	“Well every time I went there.” “Sometimes they brush you off, it’s kind of intimidating. He gave me his time.” He said he picked Always instead of Usually “because that was the case. There was not one particular case that he was in a bad mood.” When he

			<p>saw alternate version, he said “this is a little bit more politically correct.... I prefer the straightforward one. This reminds me of politics.”</p> <p><i>[No problem]</i></p>
E12	Usually	Definitely yes/no	<p>(reread the question starting with “how often did...”) “He’s very very very very good. When you see him in the office, he listens, but when he wants to ask you a question, he interrupts.” “I have to be... firm and tell him that he needs to listen and usually he’ll do that. (but not always).” Why did you pick Usually instead of Sometimes? “Because <i>usually</i> he does listen to what I have to say.”</p> <p>Read alternate version twice, then went back to compare to original version. Answered “Definitely no.” “It is basically asking a different question.” “The alternate is requiring a definite answer.” “I would rather answer it clearly – Definitely Yes/Definitely No. I don’t like Usually.”</p> <p><i>[Possible problem: didn’t like initial wording of question. Also, seemed to answer the original version more favorably than the alternate version. This may have been because it took him a minute to remember the fact that his surgeon interrupted him sometimes]</i></p>
E13	Sometimes	Never-Always	<p>Pointed to <i>often</i> and <i>carefully</i> and said “These are subjective.” “I’ll say sometimes, which is kinda the copout answer. Cuz Carefully is the key.” What do you think they mean...? Concerned about you vs. thinking about moving on to the next patient. Why did you pick Sometimes instead of Usually? One time she felt rushed, the next time the surgeon was a little more patient. Answered “Somewhat No” to alternate version. “This one’s harder to answer.” She said it was easier for her to include multiple visits using the alternate version, rather than having to average.</p> <p><i>[No problem]</i></p>
E21	A/DY	Nev-Alw	<p>He has a great bedside manner. You don’t get them often (had other surgeons).</p> <p>Reviews alternate and compares to original to see differences. I have a problem with DY, I can say yes/no. Somewhat yes is a strange response option. NSUA is easier; these answers work better for me.</p>
E22	U/DY (!)	DY	<p>He normally would listen to me. He usually had an answer for me when I had a question, or give me an option to handle an issue.</p> <p>Listen: they would want to hear me voice my opinion, and ask questions to get my opinion.</p> <p>Why not sometimes: He listened to more questions than just hearing it. He would pick up every word I said.</p> <p>DY: bein’ that when I first went to him and until</p>

			<p>surgery and after, he had answers to my questions as far as after care and before care. He didn't want to progress and not say an answer to a question I had.</p> <p>PROBLEM: Answered differently for the two questions.</p>
E23	A/DY	DY	<p>Re stated. I would say Always because he answered, he gave me information about his feeling about what the lump was, he gave me plenty of time to ask questions. He didn't rush me. He answered the question. He answered every one of my questions. He answered my questions and gave me more information about the questions that I asked. He listened very carefully. I was satisfied with the answers.</p> <p>Preference: When I read sentences back and forth (not related to response options), the DY question is more succinct and simple. "often" is ...I don't know why...makes the sentence odd. The answers for DY questions are more politically correct. They aren't as harsh as NSUA. They flow better. Ties in with the rest of the survey questions.</p>
E24	A/DY	No pref	<p>We spoke 5 minutes. He questioned me about my medical background and then we dialogued about my operation.</p> <p>He wasn't preoccupied, he didn't dominate the conversation. He answered the questions as best as he could. Very attentive.</p> <p>It is practically the same as the other question, the answers are switched around. He listened carefully.</p>
E25	A/DY	DY	<p>However, it wasn't always the surgeon I was dealing with. I mainly spoke with the surgeon pre. He listened carefully to me because the surgery was somewhat up to me. Me being involved in sports, he needed to know whether I really needed it or not. I told him that I was actively involved in sports. He asked me if I had kids that I wanted to play sports with. He was doing due diligence to make sure I was validly getting surgery.</p> <p>Without prompting: I think "how often" is odd. Tell me more: I wasn't counting. Whenever I was speaking he seemed like he wasn't listening intently.</p> <p>Alt: I wouldn't question this question. It is worded a little better. Makes more sense.</p>
S01	Usually	<ul style="list-style-type: none"> ▪ She 	<ul style="list-style-type: none"> ▪ It as hard for participant to decide between

		prefers the options for the alternative version, but she think there is not much difference between the questions .	Sometimes and Usually <ul style="list-style-type: none"> ▪ Participant thought the question asked about whether she was paying attention to what the doctor said [Definite problem] ▪
S02	Usually		Usually is means that is like that most of the time and Sometimes is half and a half. My doctor listens to me when I am talking and when I stop talking he asks me more questions. [No problem] About the alternative version of the question;" I sounds the same to me, but the word frequency is disruptive" [potential problem]
S03	Yes	Participant thinks that original and alternative questions are the same. She prefers the options of the original questions.	The doctor answered all my questions in a nice way and told me I should not worry about anything.[No problem]
S11	Always	Original	NO PROBLEM. It means listening to you as you talk about your illness, asking you questions. I chose Always vs. Usually because he always listened to me. Prefers the original #13 question as well as the responses on the original game.
S12	Usually	Alternate	NO PROBLEM. It means that they really listen to you, some doctors talk for 2 minutes and just give you medicines. Others really listen to your symptoms. I didn't choose always because he gave me a medicine that made my gastritis worse and I had to go the ER where they said he shouldn't have prescribed that with my gastritis. Likes alternate version because it's easier to undertand.
S13	Always	Alternate	NO PROBLEM. He would ask if I had questions, if I

			had doubts, anything I needed to know. Asked if there was something I didn't understand. Chose Always because he only had 1 visit and the surgeon listened. Likes the alternate because "how often/frecuencia" means you have to count and you can't always count.
Item summary			

30/14. During your office visits before your surgery, how often did this surgeon spend enough time with you?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if this scale is working properly.

Determine if respondents can make appropriate judgments about spending enough time.

What do you think they mean by "spending enough time with you?"

So, about how many office visits did you tell me you had before your surgery?

And, for how many of these visits did the surgeon spend enough time with you?

IF RESPONSE IS INCONSISTENT, PROBE TO DETERMINE REASON FOR INCONSISTENCY.

ID	Survey response	Verbal response
E01	Skip	Appropriate skip
E02	Always	This is a difficult question. Because it was like 15 to 30 minutes to sit and talk and examine my hand. I guess always, because she always spent the time. I didn't feel like I was being pushed out. ["Spending enough time with you"?] Well a lot of short it's very short, just show me the money, but not with her.
E03	Always	He never shorts you. I think they mean does the doctor answer all of your questions and concerns. I had many visits and he did this at all of them. [No problem]
E11	Always	"That's kind of redundant." In response to the probe about what does the respondent think they mean by 'spending enough time with you,' he said if they don't cut you off or look at their wristwatch. He said he had seen the surgeon 3 times before the surgery and "every single time" he spent enough time with him. <i>[Possible problem: he seems to have trouble with the Never-Always scale in general. He never said this, but my feeling was that he would have been more comfortable answering a question like this as a simple Yes/No.]</i>
E12	Always	"Maybe he didn't listen to me, but he spent enough time with me." 2 office visits, spent enough time in both. <i>[No problem]</i>
E13	Sometimes	"One yes, one no. so I would have to go with Sometimes." What do you think they mean...? "So I feel that I'm the one that counts... enough time to make you feel... important." <i>[No problem]</i>

E21	A	He always spends enough time with me, he never rushed me. 4-6 visits. He listened. It was usually me who said I wanted to leave. I had a different surgeon before and it was night and day comparison.
E22	A	Rereads question. He was always in the room when I had a question. He spent quality time answering my questions. 2 visits. He spent enough time with me in both visits.
E23	A	(1 visit only). How often?? That throws me. It is so odd how they ask that question. How often, it isn't like he came and went. Very odd with the answers. He spent as much time as I wanted. Always doesn't really work. I am befuddled on that one.
E24	A	I went there once, so I would have to say always. I don't know how else to describe spending. It took 20 minutes, not counting the wait time.
E25	A	I am still having problems with how often. I said earlier that I had 3 visits, for 5-10 minutes each. Is he listening to me? Is he providing me with all of the details I need to know, all of the options, and doing his due diligence, making sure the patient understands everything. PROBLEM: How often hard to understand.
S01	Usually	I only saw the doctor 2 times before the surgery and one time he had more time to spend with me than the other time. Participant was confused about "con que frecuencia" [potential problem with the Spanish version.]
S02	Sometimes	I am not sure what do you mean by frequency, do you mean a lot of time in the same visit or if I saw the doctor many times? [definite problem]
S03	Always	In all the 2 visits I had with the doctor he spent enough time with me. [No problem]
S11	Always	NO PROBLEM. This has to do with listening, it means that he spent enough time to make sure I also understood everything and that I didn't have any questions, doubts or any other symptoms. Had about 3 visits before the surgery and in all 3 he spent enough time with her.
S12	Always	NO PROBLEM. Some doctors are too fast, or they interrupt your visit as if they are seeing 2 patients at once. One that spends enough time doesn't do that. He always spent enough time with me. Don't remember exactly how many visits but it could be 10.
S13	Sometimes	NO PROBLEM. This means the surgeon takes the time to explain to me, not rushed. Had 1 visit before the surgery. He spent enough time but I had to wait a long time.
Item summary		

31/15. During your office visits before your surgery, how often did this surgeon encourage you to ask questions?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if this scale is appropriate.

Determine if respondents can make appropriate judgments about whether the surgeon encouraged questions.

What do you think they mean by "encourage you to ask questions?" That is, what can a surgeon say or do to encourage you to ask questions?

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

ID	Survey response	Verbal response
E01	Skip	Appropriate skip
E02	Always	She always asked me if I had questions. I asked her about her experience. I said always because she always made sure to ask if I had questions.
E03	Always	[Laughs] He doesn't have to encourage me. I make sure I ask all of my questions. He always scoots his chair back and says, 'what else'? [Possible problem; I think she feels comfortable asking her doctor questions, but unclear whether is something he does or her own manner.]
E11	Always	He said his doctor said "If you think of a question you can give me a call" and he said "I didn't feel like as if I were a number." In response to the first probe, he said "specifically asking you." He said he picked Always instead of Usually "because it happened every time." [No problem]
E12	Always	"He always told me, if I had any questions to ask. He wanted me to be very clear on what we were doing." What do you think they mean by 'encourage you...'? "They are meaning that... the surgeon invites you to ask questions, makes you feel comfortable enough to ask questions." Why did you pick Always instead of Usually? "He always... after the visit was over... [he would say] 'do you have any more questions?'" Basically said that the surgeon probed for questions <i>a lot</i> . [No problem]
E13	Never	"Here we go again, <i>how often</i> ." What do you think they mean by encourage? "What are your questions? Do you have any questions?" Why did you pick Never instead of Sometimes? Said that she went in with questions but the doctor didn't ask/probe. "She isn't the initiator." [Possible problem: respondent didn't like scale, doesn't seem to

		<i>like the 'how often' questions, in general]</i>
E21	A	He always would ask, after explaining something, whether I would have questions and my wife would come and she would have a number of questions. He would always ask "do you have any more questions?"
E22	A	<p>If you had anything, or if you were scared, or you wanted to know how long it would take, what kind of risks or benefits there were. He kinda goes with what you think. He did make suggestions. He just stood in front of me and said "your fixin' to go through something really big, so if you have any questions, go ahead and ask me. It was supposed to be done at 12 and it started at 1:30.</p> <p>A vs. U: Every time I went to him before and after, he would ask me if I had questions.</p> <p>PROBLEM: Included pre-op and post-op visits.</p>
E23	A	<p>He asked if I had questions. He would give me information and paused, pausing like that is the same thing as letting them ask questions (encourage). Then he verbally did it. Then you got usually/always. Always because he never rushed me and gave me time to ask questions.</p> <p>Not usually b/c Usually means an indication that he didn't always ask or encourage questions. He spent multiple time in the appointment to ask questions. If I needed another 15 minutes, he would have given it to me. He was patient.</p>
E24	A	<p>They mean did he forthrightly try me to get me to ask questions rather than intimidate me with his stature or training.</p> <p>Always—I only saw him one time and I was impressed with how he listened. We talked a lot about the procedure. We talked about post-op.</p>
E25	A	<p>At the end of every visit, his question was "do you have any questions for me?"</p> <p>Always not usually: Because like I said every visit, he didn't leave the room without asking me if I had any questions.</p>
S01	Sometimes	The doctor did not ask in every visit if I had question [No problem]
S02	Usually	<ul style="list-style-type: none"> ▪ When he told me I has cancer I was shocked and I could not talk. He asked me if I had questions [No problem] <p>Is 'la mayoria de las veces" (her answer) a frequency? [definite problem]</p>
S03	Always	Participant thinks about how good she is at asking questions to the doctor not about how much the doctor encourages her to ask questions [Potential problem]
S11	UsuallyAlways	NO PROBLEM. It means that he makes sure you don't have any doubts about your illness or surgery. He'd tell me not to leave with any doubts and would tell me to ask, he'd say "you need to know." Chose Usually instead of sometimes because

		most of the time he'd ask me if I had doubts or questions and not just sometimes. Participant thinks about how good she is at asking questions to the doctor not about how much the doctor encourages her to ask questions [Potential problem]
S12	Sometimes	NO PROBLEM. He'd ask me if I had questions. I said sometimes because sometimes I'd leave without asking a question.
S13	Sometimes	NO PROBLEM. He didn't ask if I needed anything, if I was worried. He just said once, if you have any questions let me know. Answered Sometimes vs. Never: he did ask once if I had any questions and he didn't seem to close off the option to me.
Item summary		

32/16. During your office visits before your surgery, how often did this surgeon treat you with courtesy and respect?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if this scale is working properly.

Determine if respondents can make appropriate judgments about courtesy and respect.

What did the surgeon do or say that made you feel he/she was treating you with courtesy and respect during these office visits?

How would a surgeon who [USUALLY/SOMETIMES] treats patients with courtesy and respect be different from your surgeon?

ID	Survey response	Verbal response
E01	Skip	Appropriate skip
E02	Always	She was professional and showed concern. I felt like she cares about her patients. A usually/sometimes surgeon would evade patient question and not explain anything, just say, this is it.
E03	Always	It's his nature. He never hesitates to get on the phone when I call and he comes to my house if I need anything. He's always attentive. A usually/sometimes doctor would be in a hurry, have his mind on something else, not go the extra step, not be able to address something that comes up after leaving the exam room. [No problem].
E11	Always	The surgeon never made him feel like he had already answered that question, like if his family members came in and asked a question that he himself had already asked, the surgeon didn't brush them off and say he already told the patient that, etc. In response to the probe about USUALLY, he said "he has seven patients waiting, you can tell he's impatient, you cannot describe but you can tell he's in a hurry." When asked how to differentiate that from SOMETIMES, he said "sometimes – if he's moody I guess" <i>[Possible problem: he doesn't describe Sometimes vs. Usually in the way I would expect; maybe a Yes/No would be more straightforward]</i>
E12	Always	"He always cared about my feelings... anxieties... fears." How would a Usually surgeon be diff? "It would be sometimes you might get good treatment and sometimes you wouldn't. It would be a variable condition." <i>[No problem]</i>
E13	Usually	"You have to interpret what your view of courtesy and respect is." What did the surgeon do/say? "That's hard... general demeanor... being treated as a person." Said that the difference between Usually and Sometimes would be the "sense of

		hurriedness.” [No problem]
E21	A	Mr. Glen, How are you doing today? How have you been feeling? Have you been doing everything I asked you to do? More of a friend rather than a doctor. Usually—Mannerisms, tone, the tone that they could use. I have had a surgeon who gave me courtesy and respect, but he had kind of a tone, like “I know you don’t want to do this...but do it anyway, his presentation.”
E22	A	He would always talk to me in a calm voice, never made me more afraid or scared. His nurse was there with him in case he couldn’t answer it. Sometimes: they would might agree with some things you said, but not others. Mine would talk about options.
E23	A	When I left his office, I felt at peace with the decision to have surgery and have it with him. He took the time to listen, give me information, cordial. I wouldn’t say I enjoyed my time—you don’t really connect with your surgeon. Usually surgeon: they would give information, answer questions thoroughly, but for me, but there was a comfort level I had with him. Usually might mean they were nice to me, but didn’t have an overwhelming pleasant or personality.
E24	A	He was always courteous and respectful. This is specific to the one visit before. He had a nice small, personable, had a quiet voice, good bedside manner, very knowledgeable, I talked more than he did. Answered all questions perfectly. Usually: Sometimes he must have not treated someone nicely.
E25	A	I felt that I was in a professional environment. I never felt rushed. I never felt left an office visit with questions or even remotely thinking like I would want to see someone else. Usually surgeon: I guess some of the things that I just mentioned. It is a big deal for patients, but perhaps not for surgeons, so maybe they would treat the appts with less importance. If I felt like I was just another case....then I would lower the rating.
S01	Always	I was thinking about the way the doctor examined me, about how respectful he was with my body, because I am shy [no problem]
S02	Always	I always felt very comfortable with him [No problem]
S03	Always	The doctor was very nice with me as you have been with me. [no problem]
S11	Always	NO PROBLEM. He was kind, always listened. Respectful, he never said anything that was not professional, never said anything out of the ordinary. One who is sometimes respectful and courteous is someone who is moody, sometimes he’s in a good mood and will be respectful but at other times is not and will take it out on others. It means someone whose personal life affects his professional life.

S12	Always	NO PROBLEM. He did his work, he never said anything he shouldn't have, never saw anything out of the ordinary. The difference between one who is usually/sometimes courteous and respectful: maybe it has to do with trust, maybe patients don't trust him. Or it could be moods, if he's moody and sometimes wants to be friendly and not at other times.
S13	Usually	NO PROBLEM. He greeted me, sat at my eye level, made eye contact, was warm. We talked about the surgery. One who does that SOMETIMES is one who doesn't look at you, talks fast, wants to get out of the office. His answers are short, ends conversation when he talks.
Item summary		

YOUR POST-OPERATIVE CARE FROM THIS SURGEON

These questions ask about your experiences with this surgeon and the surgeon's staff after your surgery.

33. Did this surgeon or this surgeon's staff explain what to expect during your recovery?

- ¹ Definitely yes
² Somewhat yes
³ Somewhat no
⁴ Definitely no

Goal: Determine if respondent attended to instructions preceding question 33. Determine if "explain what to expect during your recovery" is consistently interpreted and if it is interpreted similarly to "how well prepared were you.". See if transition from Never - Always scale created any problems.

INTERVIEWER: DID RESPONDENT READ OR SEEM TO NOTICE THE SENTENCE PRECEDING QUESTION 33?

YES NO DON'T KNOW

How did the surgeon or her/his staff explain what to expect to you?

How well did this help you prepare for your recovery?

ID	Survey response	Read intro?	Verbal response
E01	Somewhat yes	Yes	[He had trouble sleeping after his surgery and was given sleeping pills. As a side effect of the sleeping pills he had a "nervous incident" where we woke up and was pulling the IV out of his arm and scared himself. He was surprised to learn this was not an unusual side effect of sleeping pills and would not have taken them had he known. He felt they could have been "more responsive to my need to relax and sleep". Possible problem, is this considered part of his recovery...?]
E02	Definitely yes	Yes	She told me that I might feel nauseas, she gave me the pros and cons. She prepared me so I knew what to expect. What to be aware of and what to be concerned about after the surgery.
E03	Definitely yes	Don't know	If not, then it was because he had explained it all before. The surgeon told me. The what to do and what not to do. It definitely helped me prepare for the surgery, plus my experience with the other two surgeries. [No problem]
E11	Somewhat	Yes	"The way it happened is that I had side effects that I

	yes		<p>didn't know about..." "well they did say that it was going to be uncomfortable" In terms of preparing for his recovery, he said "you are very optimistic and you believe the doctor the everything is going to be great and then real life is different."</p> <p><i>[No problem]</i></p>
E12	Definitely yes	Yes	<p>"The surgeon came to me and explained step-by-step..." about what he could start eating when (spicy foods, etc.) How well did this help you prepare for recovery? "Very well. I did as good as I did because of the information."</p> <p><i>[No problem: "explain what to expect during your recovery" was interpreted similarly to "how well prepared were you"]</i></p>
E13	Somewhat no	Yes	<p>When she read the sentence before the question, she said "Does that mean when I come out of the surgery or... when I go home?" (was confused about <i>after</i>). "My recovery was not what it was supposed to be." "They told me what to expect, but the outcome was different." How did the surgeon explain? "kind of... it was in terms of my trip... will I be OK to go on this trip?... Sure!" They didn't give her much information.</p> <p><i>[Possible problem: maybe 'after your surgery' timeframe should be defined more specifically]</i></p>
E21	DY	Y	<p>Read "preoperative" not post op. Every little detail, even how long about some things I didn't want to know. It might be a year before it stopped swelling. He didn't pull punches, and explained everything about the pain. He explained why it was numb.</p>
E22	DY	N	<p>They said "you will be a little sleepy when you wake up, and you might have excess blood, that it might turn red, it is just healing up, it might take a long time for it to heal up."</p> <p>It was good.</p>
E23	SY	Y	<p>Let's see during your recovery. Now before surgery he said there would be tenderness and discomfort for a day or two. The nurse went over some things as well. They didn't go over it in huge detail. They told me what to expect, and the nurse went over it in recovery. It was not overly detailed. I had some questions about the pain—huge amount of pain or moderate amount of pain. I didn't ask though.</p> <p>It did help me prepare for recovery, because I have had surgery in the past where I was not prepared at all. He didn't think it would be a lot of pain. He did say it would be tender. He prescribed me low dosage pain pills.</p>
E24	DY	Y	<p>I had no questions whatsoever. He told me verbally. They also gave me a detailed list of things to do, not to do, and a forecast of what to expect. If you don't</p>

			have a great memory, you could forget. It helped a lot.
E25	DY	Y	<p>He knew to read the prior statement. The surgeon and their staff, the staff would include—is recovery same day, or 6 month road to recovery include PT? Is it the immediate post op recovery? Either way I would say DY. The nurses explained how to use my ice contraption. Long term post op recovery, which was mainly the surgeons' staff, including the PA and the PT. Said I would be in a certain degree of pain, then it would subside. I remember the immediate 2 days following the surgery I was in more pain than I thought I would be based on their explanation.</p> <p>POTENTIAL PROBLEM: Stated DY not SY even though in pain.</p>
S01	Definitely yes	Yes She does not know what Post-Operative [definite problem]	She thinks Post-Operative is probably before the surgery, but she is confused because the question says “recovery” [definite problem]
S02	Definitely yes	Yes. She does not know what Post-Operative. “I think it means before” [definite problem]	The staff told me I was going to feel nauseas and that I could not drive [No problem]
S03	, Definitely yes	Yes She does not know what Post-Operative means [definite problem]	Staff told me I needed to wait until I could carry heavy stuff and to eat some kind of food.
S11	Definitely Yes	Y	<p>POSSIBLE PROBLEM IN SPANISH: They told me about how my diet would have to be, the medicines I would have to take, all the things I would have to do after. It was very helpful, it was very important. Some people have a hard time listening right after the surgery but they need to, because they need to know what can happen. SPANISH: Cuidados postoperativos significan que son post – antes de la</p>

			operacion lo que tengo que hacer antes de la cirugia.
S12	Definitely Yes	Y	NO PROBLEM. They told me that I had to stand, walk, do therapy. This hlepd because I Knew what to expect and the pain to expect. SPANISH: no sabe que significan cuidados postoperativos, [me pregunto cuando leyo la pregunta].
S13	Somewhat Yes	Y	NO PROBLEM. After the surgery, staff tells you what you need to take, how you feel, what you need to do. It helped a little. SPANISH: cuidados postoperativos son cosas que debo hacer o no hacer después de la cirugía [did not understand].
Item summary			

34. Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if scale is appropriate (that is, should it be dichotomous?)
Determine how "warn you" is interpreted.*

IF NOT "DEFINITELY NO": How did they warn you about these signs or symptoms?

Would giving you some materials that listed warning signs or symptoms be the same as warning you about any signs or symptoms that require immediate care? Or would they have to spend some time talking about it with you?

Why?

IF SOMEWHAT YES, ASK DEFINITELY YES

IF SOMEWHAT NO, ASK DEFINITELY NO

IF DEFINITELY YES, ASK SOMEWHAT YES

IF DEFINITELY NO, ASK SOMEWHAT NO

Why did you pick [RESPONSE] instead of [ALTERNATE RESPONSE]?

ID	Survey response	Verbal response
E01	Somewhat yes	I was worried about my heart bu the staff let me know that wasn't a concern. I did need some oxygen and they gave me the number of an oxygen service for when I was home. They were concerned about the pain level; I was not. I didn't say 'definitely yes' because I didn't quite feel comfortable asking questions about my concerns. I had emotional concerns about the long-term symptoms of the recovery. I would have rated higher if someone had been more reassuring or went into the long-term effects.
E02	Definitely yes	I think it would be both. If they gave written materials they should explain it as well. They told me the good and the bad. They said it I had any problems I should come in right away. I didn't choose somewhat because of the way the staff was. They told me things to be aware of and gave a great deal of consideration for my health.
E03	Definitely yes	He said with anything it's better safe than sorry. I knew what to expect good and bad. When my bandage came off he came straight to my house to fix it. I think talking would be better. [No problem]
E11	Somewhat no	"They said 'if you cannot empty your bladder you have to come back'." In response to the prompt about materials he said No.

		<p>He wishes they had performed more exams. When asked why he picked Somewhat No instead of Somewhat Yes he said “because of the things that they left out. I was gonna conceivably need a catheter. (took 3-minute break after this question) <i>[No problem]</i></p>
E12	Definitely yes	<p>“They talked to me and my partner... it was the main site that they explained could get an infection... if there was redness... swelling... hot.” Would materials be the same? “No. You give me papers, I just won’t read ‘em.” Why? “I need to hear the gravity in a person’s voice.” Why did you pick Definitely Yes instead of Somewhat Yes? “Because he was very definite about his warnings.” <i>[No problem]</i></p>
E13	Somewhat yes	<p>How did they warn you? “There’s something written on a paper.” Would materials be same? “I think it’s... better if it’s written.” Said that if she’s sort of out of it she’s not going to remember verbal instructions, but she can take home something written and read it later when she’s more conscious. Why did you pick Somewhat Yes instead of Definitely Yes? “Technically it wasn’t the surgeon’s staff, nor the surgeon.” <i>[No problem]</i></p>
E21	DY	<p>Because I had to have therapy. He told me I had to have therapy and it would be up to me about how long I would do it. Paper wouldn’t be the same, but I wouldn’t consider that to be enough. Talking it through gave me to time to ask questions. PROBLEM: Did not consider warning signs and symptoms</p>
E22	DY	<p>Symptoms = symims. No, I would want to hear it from the doctor’s perspective, instead of reading something. Visualizing (reading) things aren’t as good as hearing because I remember what people say better. Sign and symptom: if surgery site becomes infected or opens, or swells up. SY: Because the surgeon told me exactly if anything happened to go to the ER. Or come back to see him.</p>
E23	DY	<p>He did talk about if it got red, puffy, changing the bandages, the dressing, things to look for there. He said it was possible that there might be a divot, if it oozed or got red, I needed to come in. Surgeon told wife in pre-op. PROBLEM: Response related to wife, not respondent. The nurse reiterated everything to the wife in post op.</p>
E24	SY	<p>There wasn’t much that could happen. There were instructions on how to clean the nose, changing the bandage. Verbal and written. SY—really wasn’t anything major that could happen. PROBLEM: Not answering about signs and symptoms, but instructions.</p>
E25	SY/DY...DY	<p>Infection around the area. Warned me about pain. I can’t</p>

		<p>remember...I think it was all verbally.</p> <p>DY—well they definitely provided information, so I guess that over SY.</p> <p>A sheet of paper would be more effective. My level of surgery wouldn't require a laundry list of items to be aware of.</p>
S01	Definitely no	No one warned me that I would have swollen feet and it happened to me and I was scared [no problem]
S02	Definitely yes	They warned me about the nauseas. [No problem]
S03	Definitely yes	They told me that if I was feeling in certain way I would have to contact them. They told me what kind of symptoms I might felt after the surgery. [No problem]
S11	Definitely Yes	NO PROBLEM. They told me what to expect and that I should call them. It's not the same, because to me it is very important that they explain it to me. It's also important that they give it to me in writing so that I can look at it later, we're all forgetful. Selected definitely yes vs. somewhat yes: because it was very clear what I should do if certain things happened. Like pain, they told me to expect some but they told me what would not be normal pain, or the length of time of some symptoms... if it was too long then I should tell them.
S12	Definitely no	NO PROBLEM. I don't know they didn't tell me what to go to the doctor for. It is Definitely no and not Somewhat no because: they didn't tell me at all.
S13	Definitely Yes	NO PROBLEM. They told me what to expect and gave me phone numbers to call if I had problems. Written and verbal: both are ok, but I prefer written because if they just tell you, you forget. But if it is written you can look at it later and sometimes it includes graphics. Chose Definitely Yes vs. Somewhat Yes: because they told me my arm would be asleep and how long it would last, they told me how to take the medicine, good explanations.
Item summary		

35. Did this surgeon or this surgeon's staff give you easy to understand instructions about what to do during your recovery period?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine whether instructions are being interpreted consistently (oral, written, or either.)

IF NOT DEFINITELY NO: Tell me about these instructions.

Do you think they're asking about verbal instructions, written instructions, both, or something else?

Why?

ID	Survey response	Verbal response
E01	Somewhat yes	'Somewhat yes' because the written instructions were very clear, but the verbal instructions were a little muddles.
E02	Definitely yes	They gave me literature about the medical stuff. The side effects of the drugs. What to do, what not to do. I think they're asking about both verbal and written instructions here. [What makes you think that?] The word "surgeon". The staff does the follow-up and gets you ready to leave.
E03	Definitely yes	For me it would be verbal. [No problem, because of her vision trouble, she can't make much use of written instructions.]
E11	Somewhat yes	(shrugged). "He didn't say much." "He said don't lift heavy weights, drink a lot of water." In response to probe about verbal/written, he said both. "because they do give you a little write-up." <i>[No problem: interpreted as Both]</i>
E12	Definitely yes	"Wow this seems to be so repetitive." Tell me about the instructions: instructions about not lifting very much, get rest, lay off exercise routine, etc. Verbal/Written? "Both.... The way the wording is." (reread slowly). "to me that means verbal or written." <i>[No problem: interpreted as Both]</i>
E13	Definitely yes	Leave the dressing on, don't get it wet, when it's OK to take it off. Do you think verbal/written? "I guess I assumed written because that's what I got." "could be both" (but said again that for a person coming out of surgery who might be drowsy, written might be better). <i>[No problem]</i>
E21	DY	Both written and verbal.
E22	DY	They basically gave me a sheet of paper stating that I couldn't do these things, or go to work, climbing up stairs, that it may interfere wound site. They told me to hang around the house. This includes written and verbal.

E23	DY	They went over things I could not do like getting it wet. Changing the bandages and what to look for. It was easy to understand. He told me to rest and that I would be fine after a few days. Dy or SY...I would have to say DY because they were simple, had a timeline, concrete, specific. I was thinking verbal instructions. We probably had a sheet. But I went by his verbal instructions. They probably include both.
E24	DY	It was all on the paper. Well as best as I can remember, told me meds not to take, what to take, what to do if I had a problem with bleeding, changing bandages. Both verbal and written.
E25	DY	PROBLEM: I am having a hard time differentiating between DY and SY; these are yes or no questions. Maybe were these instructions very easy, somewhat easy, usually easy, etc. The recovery period was rest and relaxation and ice if it was swelling and painkillers on a regular basis. Both, everything under the sun on this questions. Intake of medicines, rest.
S01	Somewhat yes	They did not tell me if I could go upstairs or what kind of food I could eat [Potential problem, it seems to me that the response is too positive for the experience she actually had... not sure how the options could be improved]
S02	Definitely no	No, I think that when you have a surgery you should not do some things such as carry heavy stuff or work. They did not tell me that and the doctor also said I could go to work next day [potential problem: They gave her instructions, but she did not agree with the instructions she got]
S03	Definitely yes	They explained me everything before the surgery [no problem]
S11	Definitely Yes	NO PROBLEM. They're asking about both written and not written, both are important [see earlier question].
S12	Definitely No	NO PROBLEM. I know the hospital gave the nursing home papers, but not me. Maybe those were instructions, I don't know, I think they were. Only the physical therapist gave me written instructions. I think they mean written instructions because the surgeon can tell me anything he wants but I will forget, paper is better, I can refer to it later.
S13	Somewhat No	POSSIBLE PROBLEM (thinks it is same as earlier question). Just the ones I mentioned in the last question.
Item summary		

36. Were you aware of any medical mistakes in your treatment?

¹ Yes

² No → **If No, Go to Question 39**

Goal: Determine if "medical mistakes" is interpreted consistently.

What do you think they mean by "medical mistakes in your treatment?"

What would a big medical mistake be?

What would a small medical mistake be?

So, do you think they are asking about any medical mistake or only big medical mistakes? Or, are they asking something else?

Why?

ID	Survey response	Verbal response
E01	No	Oh, well, in treatment, no. A big problem would be removing the wrong lung, anesthesia problem, or leaving a sponge in there or something. I think they would be asking about big mistakes.
E02	No	I think they are asking about both kinds of mistakes. A big mistake would be the wrong surgery. A small mistake, in a surgery like mine, would not be getting the whole infection completely.
E03	No	That's why he took all of the x-rays before. I think a big mistake would be to make light of the pain I complained about that initiated the surgery. A small mistake [pause] would be forgetting to sew it up; I'm grasping at straws, my incisions were so small. I think all types of mistakes. The perception of the size of the mistake depends on the patient. [No problem]
E11	Yes	In response to what he thinks they mean by 'medical mistakes in your treatment,' he said "Things that are – like if they give you the wrong medicine, because it says treatment it doesn't say surgery." Big medical mistake: "like if they cut the wrong leg, they let you bleed to death." Small medical mistake: "scars, like a plastic surgeon." Any vs. big: "Any." "Because it says 'any.'" <i>[Possible problem: he did get a little tripped up by "were you aware of any..." because he didn't figure it out until later. Maybe question could specify the time of the awareness]</i>
E12	No	What do you think they mean by 'medical mistakes'? "If you forget and leave a sponge inside a person" Big? "Going for a tonsilectomy and getting an appendectomy" Small? "Incorrectly doing a vasectomy" (in the sense of doing it and it doesn't work the way it's supposed to). Do you think they are asking about any or only big? "I actually think this question is very vague.... 'in your treatment' – if you've been seeing the same doctor most of your life.... If I were in the doctor's office, I would probably

		ask the receptionist 'what do you mean by this?' <i>[No problem]</i>
E13	Yes	She wasn't sure what to put because she wasn't aware of the mistake until later. " <i>Treatment</i> to me is the confusing word." (talked about whether it was surgery vs. other stuff). Big mistake: doing surgery on the wrong knee, severing a really important nerve. Small mistake: "not giving you quite the right anesthesia so you feel kinda nauseated when you wake up." Do you think any/only big? "Anything.... What was the patient's opinion of a medical mistake, as opposed to the doctor's." <i>[Definite problem: respondents seem to be having trouble with this question because they don't know what to put if they weren't 'aware' until later]</i>
E21	N	If anything went wrong, or if they did something wrong, or if they could have done something else to avoid surgery. Big = wrong leg. Small = drawing the fluid off instead of giving me a cortisone shot. They are asking about any medical mistakes, not just big.
E22	N	Mistakes; if they cut the wrong place, cut the wrong artery, didn't stitch em up. Big: starting to cut open somebody and leaving them wide open and letting them bleed. Small: Forgetting to put a stitch in the site. Any medical mistakes.
E23	N	That is funny. Would they tell you if they did make a mistake? First thing I thought of was leaving a scalpel in. Small mistake: cutting something they weren't supposed to. Like cutting a lymph node, rather than cutting around. Cutting a nerve would be major. Both big and small. You don't find out about medical mistakes unless there is a problem.
E24	N	I think they mean if they left a scalpel in my brain, mis-operated. Many documented cases where they have left something in that should not have been or operated on the wrong limb. Small. I don't know. Maybe bringing or not having enough anesthesia. Botching the suturing. Asking about any medical mistake.
E25	N	I don't know. I guess that would be gave you something you are allergic too, ineffective.

		<p>Big: go in there for one surgery, but that leads to another unplanned surgery.</p> <p>Small: I think something that could be corrected before the surgery took place; nurse prepping right arm instead of left and I pointed that out.</p> <p>Asking about medium to large mistakes.</p>
S01	Yes	The patient answers about the surgery, not about the treatment. Her example of a big mistake is “that they had made a wrong surgery” [definite problem]
S02	No	There was no mistake. [no problem]
S03	No	Nothing wrong happened , so I did not realized about anything [Potential problem, why the question ask about whether they were aware...?]
S11	No answer	PROBLEM. she didn't know what to answer because she didn't know if there was a problem and she didn't ASK them if there was so she can't be certain there was not a problem. A medical mistake is something like having surgery in the wrong place, i.e. wrong leg/arm. That would be a big mistake. Her surgery was a big surgery and so she didn't think any mistakes could be small. The question asks about any medical mistakes because any mistake is bad, and because nurses can also make mistakes not just the surgeon.
S12	No	NO PROBLEM. It means that the operation was not done well, like they left thing inside, cotton for example. A big mistake is something like leaving scissors inside. A small one is that maybe the scar is too big, they cut a vein, or they cut too much. IT refers to any problem because it's not supposed to happen, big or small.
S13	No	NO PROBLEM. It refers to problems I made, like not following preoperative instructions. A big problem can also be something like not telling you something important after your surgery, for example, my brother had hip surgery twice because they didn't tell him not to cross his legs soon after the surgery. He did and it moved the hip joint out of place. Had to have it redone. Not sure what a small mistake would be. They are asking about both big and small mistakes because either one is bad.
Item summary		

37. Did these mistakes cause any significant problems for your treatment or condition?

- ¹ Definitely yes
² Somewhat yes
³ Somewhat no
⁴ Definitely no

*Goal: Determine if scale is working properly.
Determine how "significant problems" is interpreted.*

Did these mistakes cause ANY problems for your treatment or condition or not?

IF YES: Tell me about them.

Which of these problems, if any, were significant?

ID	Survey response	Verbal response
E01	Skip	Appropriate skip
E02	Definitely no	[Missed the skip pattern.] There was no mistake, so no.
E03	--	Correctly skipped
E11	Definitely yes	"I had the infection for longer that it should have been there." This was the only problem so didn't probe about significance of other problems. <i>[No problem]</i>
E12	--	(skipped correctly)
E13	Definitely yes	"I think that my problem with these questions is the 'your treatment'." The main problem was that a nerve was severed which rendered her trapezius inactive, which led to pain and a torn rotator cuff, which led to further surgery. Which were significant? "All of them. Well I mean it's like dominoes." <i>[Possible problem: maybe this could be dichotomous; don't know if such fine distinctions are needed]</i>
E21		<i>Appropriately skipped</i>
E22	DN	<i>Did not skip.</i>
E23		<i>Appropriately skipped</i>
E24		<i>Appropriately skipped</i>
E25		<i>Appropriately skipped</i>
S01	Yes	<ul style="list-style-type: none"> ▪ Participant think that the word "Significativo" is complicated, She would say "importante" ▪ I got swollen feet because the doctor did not give me the right medicine [No problem]
S02		She skipped it correctly
S03		She should have skipped this question, but she did not so she is confused about what she should answer here.
S11	No answer	NO PROBLEM. She thought about this also but said she didn't know how to answer. After probing and after telling her to

		answer as she would normally if she received this in the mail, she said she would leave it blank. SPANISH: significativo significa para ella algo importante, es lo mismo que importante pero prefiere significativo.
S12	Skipped	NO PROBLEM. Skipped. SPANISH: significativo es algo grave, no es lo mismo que importante. Prefiere importante.
S13	Skipped correctly	NO PROBLEM. SPANISH: significativo significa gran problema, es lo mismo que importante pero prefiere 'problema grave.'"
Item summary		

38. Did this surgeon explain how the mistake happened?

¹ Yes

² No

Goal: Determine if scale is appropriate or if respondents want to make finer distinctions.

IF YES: Tell me more. When did this happen?

What did this surgeon say -- or did another person explain?

How well did you understand the explanation?

IF NO: Why not? That is, why do you think that the surgeon didn't talk to you about this?

ID	Survey response	Verbal response
E01	Skip	Appropriate skip
E02	No	[Missed skip pattern.] No mistake.
E03	--	Correctly skipped
E11	No	In response to "why not" probe, he said "because he was still so optimistic that everything was gonna be so fine." <i>[No problem; he seems to like simpler questions and did not express any desire whatsoever to make a finer distinction for this item]</i>
E12	--	(skipped correctly)
E13	No	"cuz according to her she didn't understand what happened." <i>[No problem]</i>
E21		<i>Appropriately skipped</i>
E22	N	<i>Did not skip</i>
E23		<i>Appropriately skipped</i>
E24		<i>Appropriately skipped</i>
E25		<i>Appropriately skipped</i>
S01	No	The question says "this surgeon" in her case the person who gave her the wrong medicine was a different doctor, not the surgeon. She never saw the surgeon again after the surgery, so she was confused about what to answer [definite problem]
S02		She skipped it correctly
S03		Question was skipped correctly
S11	No Answer	POSSIBLE PROBLEM. Didn't know if there was a problem. Didn't know if the surgeon would mention it because they would want to avoid problems or maybe they don't know either say if the nurse made a mistake the surgeon may not know.
S12	Skipped	
S13	Skipped	
Item summary		

39. Did this surgeon make sure you were comfortable or had enough pain relief after you left the place where you had your surgery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if question is being interpreted as asking about adequacy of pain management post-release.

What do you think this question is asking, in your own words?

How did you figure out your answer to this question?

ID	Survey response	Verbal response
E01	Definitely yes	[I got behind and didn't ask any probes here; but based on prior responses he mentioned that the staff was more concerned about easing his pain, which did not turn out to be a problem for him.]
E02	Definitely yes	I think it's asking, "were they professional in explaining the pain and is this the proper medicine." [No problem]
E03	Definitely yes	He gave me sufficient pain medicine; I didn't need much because my toes are always somewhat numb. [No problem]
E11	Definitely yes	In response to in own words probe, he said "sometimes the doctor doesn't anticipate a severe pain, and the patient goes home, and they don't know what to do." In response to the probe about how he figured out his response, he said "He asked if I needed some Tylenol." [No problem]
E12	Definitely yes	What do you think this question is asking? "Were you comfortable afterwards, did you have to suffer before you got [pain medication]." How did you figure out answer? "because I had plenty of... [pain medication]." The doctor made sure he had morphine drip and didn't have any pain issues. [No problem]
E13	Definitely yes	(Said that 'enough' was "a little tricky.") What do you think Q is asking? "Did they give you the right pills..." "enough like effective." (suggested changing 'enough' to 'effective') [Possible problem with wording. Also maybe this question could be dichotomous]
E21	DY	I had a problem getting my pain medication regulated with the nurses. Then he came in and he made some changes to make me comfortable. He told me to call if I needed more medications. He also talked about addictions. He gave me medications to help the pain. Figure: laughs...Just I guess that I was comfortable with the pain medications that they gave me. They gave me relief.

E22	DY	If you thought you were well enough to go home and be under your own care with a parent or guardian at home to care for you. They took out the drainage things, and they gave me a few prescriptions, but I didn't have much at all.
E23	SY	He did not make sure I was comfortable. I did not hear from them immediately. He prescribed the pain relief prior to the surgery. He did think ahead. But the only thing is that this happened on Friday a.m., he didn't call on Friday night to ask about me. If he did, I would say DY.
E24	DY	He gave me 2 different prescriptions, I used only one pill. Asking did he give me a prescription for pain relief.
E25	DY	He could have worded it "how comfortable were you when you left the place? Definitely, somewhat,..." I had my wife with me. When I first read it, I thought it was mental comfort; but then it asks about pain relief, which means physical comfort. In both ways I was comfortable. PROBLEM: double barreled? I was comfortable physically and mentally comfortable.
S01	Definitely no	She thinks that "the place where you had your surgery" is the surgery room I was not comfortable at the hospital, there were people complaining too much and I could not rest. I had to asked to be moved to a different room [potential problem : I am not sure whether this question refers to the hospital or the surgery room].
S02	Definitely yes	When I woke up the nurses asked me if I was in pain or if I needed medicine [Potential problem; She is thinking about the nurses and the question is about the doctor [No problem]
S03	Definitely yes	She thinks that "the place where you had your surgery" is the hospital [potential problem : I am not sure whether this question refers to the hospital or the surgery room]
S11	Definitely Yes	NO PROBLEM. It is asking how I felt after the surgery, if I had any pain after the surgery. I said yes because he called me to see how I was feeling after the surgery.
S12	Definitely Yes	NO PROBLEM. He left the nurse instructions about how to give me painkiller and I also had an IV. I don't think he could have done anything else.
S13	Somewhat no	POSSIBLE PROBLEM. It is asking if the surgeon saw me after the surgery and explained what I'd felt after the surgery, what I should do after the surgery. [didn't understand question]
Item summary		

40. Did this surgeon explain the results of your surgery in a way that was easy to understand?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if there are legitimate reasons for the surgeon not doing this.

Why did you choose [RESPONSE] instead of [RESPONSE±1]?

Did anyone besides the surgeon explain the results of your surgery to you?

IF YES: Tell me about these explanations.

And, whose explanations were your thinking about when you answered this question?

IF DEFINITELY NO: Why not?

ID	Survey response	Verbal response
E01	Definitely yes	I can't recall if anyone besides the surgeon discussed the results with me. I think it was mostly the surgeon.
E02	Definitely yes	I chose definitely because she gave me great detail and it was easy to understand. [Did anyone besides the surgeon explain the results?] No.
E03	Definitely yes	He showed me pictures after the surgery; always the surgeon, I think the HIPPA law allows only the doctor to give this information. [No problem]
E11	Somewhat no	"Forty is tricky." "He explained that graphically and with drawings... but here we are talking about results." In response to why he picked Somewhat No instead of Definitely No, he said "because he had warned me that there was a chance of incontinence, what he didn't explain was that the bladder was still restricted." "He didn't explain why I couldn't empty my bladder." <i>[Possible problem: he first interpreted the question to be referring to the surgeon explaining things to him before the surgery, and then he realized it said "results"]</i>
E12	Definitely yes	(read question twice). "I had to read that again." Why did you choose Definitely Yes instead of Somewhat Yes? "he was very thorough." <i>[Possible problem: he got tripped up on the wording of the question and had to reread it]</i>
E13	Somewhat yes	"This is not clear." "Results as in we took out the lipoma... vs. results as in oops! nerve severed." Why did you choose Somewhat Yes instead of Definitely Yes? Because of her issue

		with the word 'results'. <i>[Possible problem with wording but I don't know how to improve]</i>
E21	DY	He didn't go over my head. He didn't use big words that I didn't understand. He showed me a chart and explained everything. My therapist also explained the results of the surgery. PT.
E22	DY	He basically got down to describe what happened, that there was nothing, but he was glad he did it because I would have had more trouble though. Another person, Dr. M also did—he was a specialist (endocrinologist). He told me the good news that there was no cancer and that I would follow up with him and he would follow me for awhile until my thyroid was correct.
E23	DY	He did not explain them to me. PROBLEM. He explained to my wife in a way that easy way. I felt comfortable with her information and I got it second hand, and therefore she understood it quite well. She was able to relay it to me. Nurse did not explain results. A week later I got the pathology report. She called me and gave me the long term results. She said it was benign. She took the information and made it simplistic. PROBLEM: Explained to wife, not R; Received real/final results a week later from pathologist, not surgeon.
E24	DY	He even showed me the polyp later on. He went the extra mile and showed me my polyp. Actually, he showed my girlfriend my polyp, I saw a picture of it. No one else explained.
E25	DY	After the surgery, the surgeon came in with pictures of my surgery with what he did. I understood exactly what he did.
S01	Somewhat yes	The surgeon explained that everything was fine. [No problem]
S02		I am not sure what "los resultados" mean. Do they mean what was going to happened to me after a period of time? How much time would it take for me to recover? [Definite problem. Participant does not understand the question so she does not answer it]
S03	Somewhat yes	The surgeon explained things with his medical terminology, so he did what he could. [No problem]
S11	Definitely Yes	NO PROBLEM. Chose Definitely Yes vs. Somewhat Yes because the surgeon told me clearly how everything turned out. Nobody else talked to me about it.
S12	Definitely Yes	NO PROBLEM. Chose Definitely Yes vs Somewhat Yes because: he explained it very clearly to me. Nobody else explained it, he came in with his assistant but only the surgeon spoke.
S13	Somewhat Yes	NO PROBLEM. Chose Somewhat Y v. Definitely Y: because he explained what he was going to do only but not anything after the surgery.

Item summary	
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41. After your surgery, did you phone this surgeon’s office with a medical question?

¹ Yes

² No → **If No, Go to Question 43**

Goal: Determine if respondent contacted the surgeon's office with questions in any other way.

IF NO: Did you have any medical questions after your surgery?

IF YES: How did you try to get these questions answered? Or, did you try at all?

ID	Survey response	Verbal response
E01	Yes	I didn't, but I'm pretty sure my wife did. She asked a question about my breathing. [Problem – he said yes although he himself did not call.]
E02	No	I didn't have any questions. I was already aware of everything.
E03	No	I didn't have any questions, and if I did I would have called his cell phone, so I wouldn't have called his office. [Possible problem, she interpreted question very literally, does the item want to know about calls to the doctor or calls to his office?]
E11	Yes	about the problem of his inability to empty bladder (and then he had to go in to the office, but he did call at first) <i>[No problem: correctly interpreted this question as being about phone calls specifically]</i>
E12	Yes	First put No, then thought about it. "I'm confused." (because a call was made, but it was his partner who called on his behalf, so it wasn't actually him who did the calling). Then changed answer to Yes. <i>[Possible problem: if this is to be interpreted literally as "did you phone..." then respondent misinterpreted in the end. However, if it is to be interpreted loosely to mean did you or someone on your behalf, then he did it exactly right. Maybe wording of question should be altered slightly (visually emphasize you or say "you or someone on your behalf")]</i>
E13	Yes	-- <i>[No problem]</i>
E21	N	I had one question, but I knew I had an appointment post op so I saved the questions until the appointment.
E22	N	No
E23	N	I didn't have any complications, no issues with the healing process.
E24	Y	I wanted to know if I could or should use or tilt my head back to squirt the saline. I got the answered.
E25	Y	A concern, more than a question related to pain.
S01	Yes	I called him many times, but never found him. I was told I had to see a cardiologist after the surgery, so I never saw him again. <i>[No problem]</i>

S02	No	I did not have any question [no problem]
S03	No	I did not have questions [No problem]
S11	No	NO PROBLEM. No, didn't have any questions, everything was fine.
S12	No	NO PROBLEM. I din't have a question.
S13	NO	NO PROBLEM. Yes, the pain was so strong I thought something was wrong. If it had lasted a little longer I would have called but it decreased so I didn't.
Item summary		

42. After your surgery, when you phoned this surgeon’s office, how often did you get an answer to your medical questions as soon as you needed?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine how "as soon as you needed" differs from "as soon as you wanted."

Tell me about this. How did you get in touch with the surgeon's office?

What happened?

And, how long did it take to get an answer?

How quick did you need an answer?

In what ways, if any, is getting an answer as soon as you needed different from getting an answer as soon as you wanted?

ID	Survey response	Verbal response
E01	Always	[Definite problem. Respondent discusses happenstance meetings with his doctor at the YMCA’s surgical recovery program. He said the doctor was always responsive to his questions here – particularly his question about feeling his organs sloshing around – but these were not phone calls.]
E02	--	Correctly skipped
E03	--	Correctly skipped
E11	(left blank)	“I phoned him once.... Once and I say Always, that doesn’t make sense. And yet it does.... Maybe the right answer here is Usually.... I don’t know what to say there.” In response to probes, he said he got in touch with the surgeon’s office by phone, and that it took about an hour for the surgeon to call him back. In response to how quickly he needed an answer, he said “If I wait an hour or 2 hours, it doesn’t make any difference” (because he couldn’t empty his bladder and it wasn’t a problem of pain, which would be more immediate). In response to last probe: “You always want things immediately if not sooner.” [Definite problem: if the denominator is 1 then it is difficult for respondents to answer this question]
E12	Always	“It was just one time but it was always.” His partner called surgeon’s cellphone, partner told surgeon the incision area was hot. Surgeon was on speakerphone so patient was also listening, not just partner. Got answer right away over the phone. Want vs. need: “You want the answer.” “As soon as you get it, you’re more relaxed.” “Wanting the answer is looking toward a resolution to the problem. Needing the answer is

		simply finishing the equation.” <i>[No problem]</i>
E13	Sometimes	Respondent mentioned that for questions like this she would probably leave the answer choices themselves blank and write something out because she didn't know which one to choose but she definitely had something to say. "That's confusing... this assumes you phoned more than once." She called to say that her arm wasn't working. They told her that it was nothing to worry about, that it was just because of the way she'd been lying on the operating table. She got an answer right away but it wasn't an effective answer. <i>[Possible problem with wording of question]</i>
E21		<i>Appropriately skipped</i>
E22		<i>Appropriately skipped</i>
E23		<i>Appropriately skipped</i>
E24	A	I only did it one time. Called. They put me right through. Unusual. No wait whatsoever.
E25	A	I called once and got an answer right away. I ended up talking to the surgeon directly. I can't remember if I got right through or he called me back. I didn't feel like I was sitting around waiting.
S01	Never	I never saw him again. He never answered my calls
S02		Question skipped correctly
S03		Question skippedSkip question correctly
S11	Never	NO PROBLEM. Missed Skip Pattern. She didn't call to ask questions, probes not necessary.
S12	Skipped	
S13	Skipped	
Item summary		

43. After your surgery, how often did this surgeon listen carefully to you?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if this scale is working properly.

Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

COMPARE WITH RESPONSE TO QUESTION 29. Do you think there was a difference in how carefully the surgeon listened to you after the surgery, compared to how carefully the surgeon listened before the surgery, or not?

IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS, PROBE: I'm a little confused Could you explain a little more?

ID	Survey response	Verbal response
E01	Always	[Again, respondent considers his interactions with surgeon at the YMCA. Definite problem.]
E02	Always	She answered all my questions. [Difference between how she answered questions after versus before?] I think she was a little more intense after. [No problem; although respondent noticed a difference, it was slight, he still felt she always listened to him before the surgery.]
E03	Always	These questions are pretty repetitive, haven't we already done this a hundred times? Been here, done that. [Definite problem]
E11	Always	"He is a good listener." As to why he picked Always instead of Usually: "because it happened every single time." Compare to question 13: they are both Always, and he said No to the question about the frequency of careful listening being different before and after the surgery. No inconsistency. [No problem]
E12	Always	Why did you pick Always instead of Sometimes? "cuz... he's always given me great attention..." At first, comparison with 29 led to inconsistency b/c he answered them differently but <i>said</i> he didn't think there was a difference. When probed, he conceded that maybe it was a little different afterward because the surgeon learned to listen better over time (and thus "afterward I didn't have that problem") because the patient told him to! [Possible problem: eventually distinguished his pre- vs. post-surgery experiences, but it took him a while and my probing to get there. The answers to the actual survey questions did distinguish pre vs. post but at first he said he didn't think there

		<i>was a pre/post difference. But then he changed his mind. Maybe those two questions should be one right after the other]</i>
E13	Sometimes	<p>“here’s an <i>often</i> again.” Why did you pick Sometimes? “She’s listening but... I’m not getting the right information.” 13 and 43 had same answer (both Sometimes) but respondent reported that she thought there was a difference between before and after in terms of how carefully the surgeon listened to her. When I probed about the inconsistency she thought about it and then said that for #13 she was averaging over 2 visits and for #43 there was only one visit to talk about. She wasn’t totally sure about her answers but thought that maybe there was less concern before the surgery because the problem hadn’t happened yet, so maybe the surgeon listened to her more carefully afterward.</p> <p><i>[Possible problem: before/after inconsistency between responses and reported opinion]</i></p>
E21	A	Every time I went to his office (he listened carefully). He even called me. <i>Consistent responses</i>
E22	A	Because when ever I went to him, he would always listen to what I had to say. No difference before and after the surgery.
E23	--	<p>I went back for a post op visit. The nurse pulled out the staples. He checked it. He reiterated that everything went fine. I had no real questions. I didn’t have anything. This is a fine line question. If someone had a more major surgery. I know he would. I can’t remember asking him specific questions. I don’t really know how to answer this question.</p> <p>PROBLEM: R had a hard time answering because of the fine detail. Didn’t have enough contact with surgeon after the surgery.</p>
E24	A	No difference before and after surgery. <i>Consistent. Always is better for the single time I asked a question.</i>
E25	S	<p>After the surgery, it seemed like I was visiting with his PA 99% of the time. This guy also listened to me (the PA) I don’t remember seeing the surgery after the surgery other than passing him in the hallways. I guess I called him with my question.</p> <p>PROBLEM: didn’t have much experience to answer question.</p>
S01	Never	I never saw him again [potential problem]
S02	Always	This question implies that the doctor is paying attention to you and that you visit him often. After the surgery the doctor makes sure that I go to see him often [Definite problem with the word frequency]
S03	Always	
S11	Always	NO PROBLEM. Chose Always vs. Usually: because he clearly asked me if I had questions more than once. No difference in how he listened before and after the surgery, always asked if I had questions and gave clear responses.

S12	Usually	NO PROBLEM. Chose Usually vs. Always: because when I went I none time and said it hurt he'd tell me it was supposed to hurt, he didn't ask me more. But the other time I went he listened. There is no difference in attention before or after the surgery.
S13	Never	NO PROBLEM. Chose this because I didn't see him after the surgery. There was a difference before and after the surgery, but it could be because I didn't see him.
Item summary		

44. After your surgery, how often did this surgeon spend enough time with you?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if this scale is working properly.

How did you decide on your answer?

SHOW ALTERNATE VERSION. There are different ways of asking questions. I'd like you to answer this version of the question. Don't forget to think out loud as you're answering.

Which question did you prefer?

- Never - Always
- Definitely Yes/No
- No preference

Why?

ID	Survey response	Which version?	Verbal response
E01	Sometimes	Definitely Yes/No	I sometime felt guilty about the amount of time the surgeon spent with me. I felt I was taking all the attention away from other patients. The doctor responded to my concerns like the sleeping pills issue. I think the first question [Never-always] sounds like it's the doctor's idea to spend the time with you. [Answers "definitely yes" on alternate.]
E02	Always	Definitely Yes/No	She was concerned about how pleased or concerned I was. Afterwards she seemed to spend more time with me and seemed more concerned about how I was feeling. I think "usually" would be more for a surgeon who was rushing the patient. [On alternate selected "Definitely yes" he likes this version better because "it's more to the point, it's more defined. Never to always seems like it could fluctuate."] [No problem]
E03	Always	Never-Always	There was no problem, I never had to wait. I like the alternate [definitely yes/no]. Oh, wait, they're different [answers "definitely yes"]. The first give an idea of how many times. I like the how often part of the question. I like the way it sounds. It addresses every visit. [No item problem, although her answer is inconsistent here, before she felt the "how often" wording made her want numbers in her response; see 29/13]
E11	(left blank)	Definitely	"Enough time? That's kind of relative.... I don't know

		yes/no	how to answer.... This is kind of redundant." "I am having a problem with 'never, sometimes'." Why? "Too vague. It depends on the number of times. Yes or not? Yes!" <i>[Definite problem: maybe this question should be dichotomous]</i>
E12	Always	Definitely yes/no	How did you decide on answer? "I had to think about that... I don't see him a lot." Read both versions side by side to compare. Answered Definitely Yes. Preferred Definitely Yes/No because "It's more concise." He said that the how-often version can be kind of confusing. <i>[Possible problem: Always/Never scale doesn't seem to be well liked]</i>
E13	Sometimes	Definitely yes/no	She had to think about recovery room vs. future office visits. She said that strictly time-wise the surgeon did spend enough time, but she wasn't getting the information she needed. I think that seemed to be coloring her feeling about what to answer. In alternate version she answered "Somewhat no." "In this version, I'm aiming at the No somewhat rather than the Yes somewhat... How often, there's the difference." Prefers definitely yes/no – "I think this is clearer, because it takes out the Often, so you're only being asked one thing." <i>[Possible problem: preferred alternate version]</i>
E21	Always/DY	DY	Rereads question. Was he supposed to spend time with me? He spent time with me. Rereads question. Reads responses. He always. This question is sort of confusing....it says after your surgery.... how often did...how often did he spend enough time with you. I don't get "how often" –is it designated time? I had to go through each one. If he comes, is he supposed to spend enough time? How am I supposed to understand this question? PROBLEM: Difficult to understand "How often" items. ALT: this I could easily answer definitely yes. He spent enough time with me. This is much, much easier (he easily answered this one)
E22	Some/DY	DY	Takes some time. How often...he sometimes comes in on the spur of the moment he would come and check on things. This is better wording. The other one says "how often" this says "did this surgeon..."
E23	Usually	DY	These "how often's" get me. This is worded weird. He came in, inspected the area, I mean there

			<p>wasn't a lot to do in my case. The answers don't match the question.</p> <p>PROBLEM: Difficult to understand "How often" items.</p> <p>Usually, because I am having a hard time answering the question. Alt: Oh, this is much better, DY, because he looked at it, he inspected it, he said he was happy with the outcome. I had no questions. He spent enough time with me.</p>
E24	A/DY	DY	<p>Everytime, so I guess Always. I never felt rushed or pushed. DY ALT: I like the alt better. The answers are inverted.</p>
E25	A/DY	DY	<p>See earlier, didn't have much contact with patient. This is about follow-up. I didn't meet with surgeon, met with PA. Liked PA. PROBLEM: not surgeon, PA. Alt: this has to do with my trust in staff other than surgeon. I trusted that this was ideal.</p>
S01	Never	She likes the answer from the alternative question	<p>I never saw him again [potential problem]</p>
S02	Sometimes		<ul style="list-style-type: none"> ▪ I did not see him very often [Definite problem: She is thinking about how frequent she sees the doctor] ▪ She thinks the questions are the same and she does not prefer one over the other one.
S03	Sometimes	She likes mo the questions from the alternative version and the answers from the original version	<p>She is confused about the question, she asked "at the hospital or in his office? She answered the question thinking about the time the doctor spent with her at the hospital. She also thinks that the question doesn't match with the possible answers. Often, very often.... Would be better [definite problem]</p>
S11	Always	Alternate	<p>NO PROBLEM. Always because it was never rushed and he made sure everything was clear to me. Prefers the alternate question but original responses (always/usually)</p>
S12	Always	Alternate	<p>NO PROBLEM. Always because he always saw me when I went to his office. Prefers alternate version because it's clearer and shorter. Prefers Always/Never scale, it's easier to think of it in those words.</p>
S13	Never	Alternate	<p>NO PROBLEM. Never because I didn't see him again.</p>

			Prefers alternate version because it is shorter and less confusing.
Item summary			

45. After your surgery, how often did this surgeon encourage you to ask questions?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if scale is appropriate.

Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

How did you come up with your answer?

COMPARE WITH RESPONSE TO QUESTION 31. Do you think there was a difference in how often the surgeon encouraged you to ask questions after the surgery, compared to before the surgery, or not?

IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS, PROBE: I'm a little confused Could you explain a little more?

ID	Survey response	Verbal response
E01	Always	That was just part of his mantra, to be responsive and make sure I understood.
E02	Always	She always insisted on making sure I asked her question. She would always double check. [No problem]
E03	Always	I had the same feeling as for 31/15. He truly doesn't mind if I ask him questions. [No problem]
E11	Always	How came up with response: "He said 'if you have any questions, call me'." "Maybe 'every single time' is the same as your Always." compared with question 15, said "No." (no inconsistency) <i>[Possible problem: this respondent really gets tripped up on the Never-Always response options]</i>
E12	Always	How came up with answer: "That's something that he has always done." No inconsistency with 31. <i>[No problem]</i>
E13	Never	"There again, the <i>encourage</i> ." "I went in with questions, but..." (they didn't ask her if she had questions. No inconsistency in comparing to #15. <i>[No problem]</i>
E21	A	I think the doctor did. He always asked "do you have any questions? Are you sure you don't have questions?". <i>Consistent.</i>
E22	A	He really said that if I had any questions ask now, and if I had other ones later, I could ask later, and if he didn't know, he would find someone who could. <i>Consistent.</i>
E23	S	He did not encourage me. Wait, let me think back. He did ask

		me if I had problems with changing the bandage, drinking fluid. He asked questions. That isn't the same as encouraging as asking questions. It was only once. <i>Inconsistent.</i> This was more of a report and visual inspection type thing. He asked once, but not multiple times. So I will go with sometimes over usually on that one.
E24	A	I didn't need any encouragement. I didn't have any questions. He was open to questions. <i>Consistent.</i>
E25	A	PROBLEM: Didn't see surgeon in any of his visits, saw PA. There wasn't a time when my office visit didn't end with asking if I had questions. Everything was well planned, so there wasn't any new questions.
S01	Never	I never saw the doctor again [No problem or definitely problem]
S02	Sometimes	I only go to see the doctor every 3 months, that is why I chose sometimes, if I see him more often, maybe I would say Always. [Definite problem with the word 'frecuencia']
S03	Never	After the surgery I was tired. I did not want to ask any question. [definite problem. She is thinking about whether she wanted to ask questions, not if the doctor encouraged her to ask questions]
S11	Always	NO PROBLEM. He always told me to ask him if I had any doubts, to call him for any question and not to worry about the time either, to always call especially if something didn't feel right. No difference in him encouraging questions before or after the surgery.
S12	Always	NO PROBLEM. He would ask me if I had any questions. I don't think there was a difference before or after the surgery.
S13	Sometimes	POSSIBLE PROBLEM. I asked if my hand would be the same as before the accident and he said no. NO real difference. [inconsistent with previous answers where he said there were no visits after the surgery, probing:] I asked him this before the surgery, if my hand would be the same afterwards.
Item summary		

46. After your surgery, how often did this surgeon treat you with courtesy and respect?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if scale is appropriate.

Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

How did you come up with your answer?

COMPARE WITH RESPONSE TO QUESTION 32. Do you think there was a difference in how often the surgeon treated you with courtesy and respect after the surgery, compared to before the surgery, or not?

IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS, PROBE: I'm a little confused Could you explain a little more?

ID	Survey response	Verbal response
E01	Always	I was comparing this with other experiences I've had in the past with other doctors. This doctor went above and beyond.
E02	Always	She was always professional and concerned about how I was feeling. [Do you feel the differences in responses are enough for you?] No, I like the definitely ones better. [No problem, he was able to respond, although he preferred a different scale.]
E03	Always	Always, always. It's his natural nature. [No problem]
E11	Always	(I neglected to probe "how did you come up with your answer?") In comparing with question 16, he said "I give the same answer" (no inconsistency) [No problem]
E12	Usually	"Seems like I've already answered that question.... Maybe that was 'before the surgery'." How did you come up with your answer? "He wasn't courteous... to my partner, and that has a definite play on me. No inconsistency: he answered 32 and 46 differently but also said there was a difference before vs. after: "yeah, because before, he had just seen me... my partner was working." [Possible problem: question seemed redundant to respondent. Maybe this could be avoided if they were one right after the other]
E13	Usually	How did you come up with answer? "picturing her." No inconsistency in comparing with #16. [No problem]
E21	A	He didn't change any after the surgery. He was still the same caring doctor. <i>Consistent.</i>

E22	A	<i>Consistent.</i> After I had everything done, I just basically asked him a whole bunch of questions, he told me the truth. He was always nice.
E23	A	How often—the whole time or part of the time? He even walked me out the door. He was always courteous and respectful. He was consistent before and after. <i>Consistent.</i>
E24	A	<i>Consistent.</i> I talked to him 3 times; after the surgery, on the phone, and at the post op visit.
E25	A	They were detailed oriented, personally concerned, I wasn't just a number. Problem: met with PA. Thought about office visits with PA
S01	Never	I never saw the doctor again [No problem or definitely problem]
S02	Always	He is very respectful, and used the appropriate words. He is not joking around [No problem]
S03	Always	He was always nice with me [no problem]
S11	Always	NO PROBLEM. Because he was always professional, never did or said anything out of the ordinary. No difference in courtesy/respect before or after the surgery.
S12	Always	NO PROBLEM. Always because I make sure they treat me right. No difference before or after surgery.
S13	Always	POSSIBLE PROBLEM. He was always friendly. There were some differences, at the first visit it was the first time we met but afterwards, we had a relationship and it was different. [Probing inconsistency he said no visits after surgery]: I mean all the visits before the surgery.
Item summary		

47. After your surgery, how many office visits did you have with this surgeon?

- ¹ None
- ² 1 Visit
- ³ 2 Visits
- ⁴ 3 Visits
- ⁵ 4 to 6 Visits
- ⁶ 7 or more Visits

Goal: Determine respondent's ability to estimate the number of post-surgical visits

How did you figure this out?

How sure are you of your answer?

ID	Survey response	Verbal response
E01	7 or more	I didn't have any office visits, but I had a lot of bedside visits. I was there 5-6 days after my surgery and he visited me everyday, and sometimes twice daily. [Possible problem – do the survey designers want these types of visits considered if there were no office visits?]
E02	2 visits	I had two visits after my surgery. After that it was in therapy, she wanted to see how the recovery was going. I didn't include those visits because with the other ones I was at therapy. [The doctor happened to be there and would check in on him, he did not count these visits. No problem]
E03	7 or more visits	I had at least weekly visits for 7 or 8 weeks. [No problem]
E11	2	How did you figure this out? "Beacuse I had the appointment.... One was immediately after surgery, and then he said I'll see you in 10 days." How sure are you? "Perfectly sure." [No problem: the number of visits was small enough that he was able to recall them individually]
E12	3	(listed them). How sure? "Very sure." [No problem]
E13	2	How figured out? She remembered the purposes of each visit. How sure? "I'm not absolutely sure... If I were at home, I would look at the calendar." [No problem]
E21	2 visits	Post op & staples removed, and then one more visit. I am positive about my answer.
E22	4-6 visits	I had 2 to begin with before the surgery, one after the surgery at the office, and 2 more since then. PROBLEM. I am 100% sure.
E23	1 visit	Stated earlier. Positive. 1 post op.
E24	1	One. Stated earlier.
E25	3	With the PA? PROBLEM: Didn't see surgeon in any of his visits post op, saw PA.. If I were recall, they had a tentative f/u

		visit ready to go, 30, 60, & 90 day visits, and coincided with PT schedule. Pretty sure, could have been 4, but pretty sure it was 3.
S01	None	Maybe we could move this question before to all the questions about after the surgery so we can skip all the ones that are not appropriate.
S02		I am still seeing him he is my gynecologist. She did not answer the question [Definite problem, she does not see 7 or more and she is not making a distinction between the visits to the doctor about the surgery and other kind of visits]
S03	2 Visits	I have seen him many times, but only two times after the surgery to follow up about it.
S11	2 visits	NO PROBLEM. Because he examined me twice on 2 different occasions. Very sure of her answer.
S12	3 visits	NO PROBLEM. Because the 1 st visit I went for a check up, the 2 nd I went to remove stitches, and the 3 rd was because he was retiring. Very sure of her answer.
S13	1	NO PROBLEM. Will have one visit next month.
Item summary		

STAFF AT THIS SURGEON'S OFFICE

48. How often were clerks and receptionists at this surgeon's office as helpful as you thought they should be?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

*Goal: Determine criteria used to determine if clerks and receptionists are helpful.
Determine if scale is appropriate.
Determine how respondents define clerks and receptionists from other staff*

What do you think they mean by "as helpful as you thought they should be?"

Who did you think of when you answered this?

IF NOT ALWAYS: So, how come you picked [RESPONSE]?

IF ALWAYS: Were they always like this to you or not?

ID	Survey response	Verbal response
E01	Skip	I never had office visits, I can't remember any. Even if I did go to his office, if he even has one, I don't think he has any staff. I would skip this whole section.
E02	Sometimes	Not really. There weren't always at the desk, or they were on the phone. I think "as helpful" is punctuality and availability. As a professional yes, but don't leave people waiting. It was all the time, but it was sometimes. I'm thinking about the receptionist check-in person behind the desk. No problem.]
E03	Always	If they couldn't answer my question they would get someone else. All of them are that way. An "I don't know response" is okay, as long as it's accompanied but, "I'll get someone who does." [No problem]
E11		What do you think they mean...: "Well that is a good point. It depends on what you expect." Who did you think of: "receptionist, and the nurses." "They have super good people there." <i>[Definite: he thought of nurses even though the question said "clerks and receptionists" Maybe "clerks and receptionists" should be bolded or otherwise visually emphasized</i>
E12	Always	"I didn't really deal with a lot of receptionists... the ones I deal with they were always helpful." What do you think they mean by 'as helpful as you thought they should be'? Helpful in getting your appointments scheduled, dealing with the pharmacy, scheduling tests. Who did you think of when answering? "One

		of the administrative assistants.” (said her name, I think Rebecca). Was she always like this to you? Yes. <i>[No problem]</i>
E13	Usually	“They don’t have to do much.” “I don’t know what else I would expect.” (after she said this she kind of wavered between Always and Usually). Who did you think of? “There are usually several... I’m not totally positive... the people that just check you in.” Said didn’t go with Always in the end because sometimes you get a mean one. <i>[No problem]</i>
E21	A	Reads header. I didn’t have anyone nasty, or act like they didn’t want to be there. I guess that is an always. I have seen receptionists on the phone, popping gum, carrying on conversations that didn’t act like you existed, not interested in their job. Not a difficult question, I thought about who I met and how they checked me in.
E22	A	If you had a specific question about time of appointment, they would answer correctly, they would tell you about where the lab is. They were all real good. Who: There is one black girl; there is two black girls and two white girls. Always helpful.
E23	A	That gets into a personality issue. This is clerks and receptionists, this is not nurses. They did their job. Surgery scheduling went above and beyond. The rest of them did their job. They fulfilled my needs. Between A and Usually, but I will stick with Always.
E24	N-S	This office...had I known the doctor better, I would have told him to get new staff. They were not proactive, or even reactive. They wouldn’t give me any information. Who: the 2-3 women who ran around and did nothing. The problem was with his staff and not him.
E25	A	I never really relied on the clerks and receptionists other than scheduling me and acknowledging me when I came. Always like this. Who: Two people, the person at the receptionist area who I give my name to and the person I check out with who I give my money to.
S01	Usually	They were nice people with me when I went to the surgeon’s office but I don’t know if they ever gave my messages to the doctor <i>[No problem]</i>
S02	Always	They always gave a lot of information to me and answer all my questions. I was thinking about the nurses and the receptionist that do all the paper work before you see the doctor and they take your blood pressure. [definite problem: She is thinking of nurses as part of the clerks and receptionists [definite problem’
S03	Always	The receptionist was nice with me when I asked for appointments <i>[No problem]</i>
S11	Usually	NO PROBLEM. It means that they are helpful, they pay

		attention to you, they offer you coffee and just help you. Sometimes they are busy. Was thinking about the secretary. Didn't answer always because they don't always have time.
S12	Usually	NO PROBLEM. It means that they made your appointments, or rescheduled if you had to. Was thinking of the person who does the appointments. It was not always because I was almost always on time, only needed to be seen out of turn when I was late.
S13	Usually	NO PROBLEM. That means they call me to remind me of appointments, Chose Usually vs. Always: because they were helpful most of th time, once or twice it wasn't so.
Item summary		

49. How often were other staff at this surgeon’s office as helpful as you thought they should be?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if respondent distinguishes between clerks and receptionists and other staff.

Who were you thinking about when you answered this question?

And, how did you know that [PERSON(s)] were not clerks or receptionists?

ID	Survey response	Verbal response
E01	Skip	I never had office visits, I can’t remember any. Even if I did go to his office, if he even has one, I don’t think he has any staff. I would skip this whole section.
E02	Sometimes	It’s the same thing [see 48]. They weren’t professional enough to cater to me. [Possible problem; he was considering other staff to be the people behind the counter in the office area who were not the receptionist – is that what the item intended?]
E03	Always	Possible problem; she explained that his staff all work interchangeably, they are all nurses and take turns doing the administrative things. In a case like this the question is pretty redundant, because she’s answering about the same people.
E11	Sometimes	Who thinking about: “the nurse.” [No problem]
E12	Always	“Same girl.” (Rebecca). How did you know that she was not a clerk or receptionist? “Because she was introduced to me as his administrative assistant.” [Definite problem: even though this question is right after the other question and they are referring to different types of hospital staff, he answered it with the same person in mind]
E13	Never	Who thinking about? “[I] would count the physician’s assistant and the nurse.” “The nurse is particularly officious.” [Possible problem: in one question she averaged the PA and the nurse, in this question the officious nurse colored her response so much she put Never. Maybe they could be separated?]
E21	A	Rereads item twice. Each time I saw someone they were helpful. But it was mostly the doctor, the PA twice and she was great. Didn’t think about nurses in this question. Nurses would be in clerks and receptionists. PROBLEM: PA, not nurses.
E22	A	Basically the lady who come and got you to weigh you, take

		<p>your blood pressure, other doctors in the facility, the receptionist at check-out</p> <p>PROBLEM: included receptionist.</p>
E23	A	<p>Here I think of nurses. Clerks and receptionists do appointments. She was pleasant, had a smile on her face, she did a great job pulling out the staples.</p> <p>I knew she was a nurse because her name tag had R.N. and she did all of the initial work, weight, temperature, pulled staples, inspected staples.</p>
E24	N	<p>I couldn't tell who was who. They basically talked amongst themselves, ignored the customers, but they ignored you.</p> <p>PROBLEM: R answered without understanding who he was answering about.</p>
E25	A	<p>The only other person was the nurse who walked me to the room. She was good at that job.</p> <p>Problem: earlier noted PA for surgeon, not included in this answer.</p>
S01	Sometimes	<p>They never helped me after the surgery. I was thinking about the nurses [no problem]</p>
S02		<p>Now I am confused. I thought we were talking about his private office now, in his office there is no more staff than the nurses and receptionists. I will not answer this question. [definite problem]</p>
S03		<p>I don't know how to answer this question. In his office it was just the doctor and the receptionist and here the question it is about his office, not the hospital [definite problem]</p>
S11	Usually	<p>POSSIBLE PROBLEM. Was thinking about the secretary, there was no one else in his office.</p>
S12	Always	<p>POSSIBLE PROBLEM. there weren't a lot of people there, only the x-ray technician, receptionist, and surgeon. The xray tech always helped me. I knew the xray tech was not a receptionist because he only did xrays.</p>
S13	Usually	<p>NO PROBLEM. I think others members means surgery team. They don't work in the office and were only in the hospital.</p>
Item summary		

50. How often did clerks and receptionists at this surgeon's office treat you with courtesy and respect?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine criteria respondents use to determine if clerks and receptionists treat them with courtesy and respect.

What can clerks and receptionists say or do that shows they are treating you with courtesy and respect? What else?

ID	Survey response	Verbal response
E01	Skip	I never had office visits, I can't remember any. Even if I did go to his office, if he even has one, I don't think he has any staff. I would skip this whole section.
E02	Sometimes	This is the same as with question 48. Sometimes they were great, sometimes they were prompt. [No problem]
E03	Always	Same reasons. The way it's done, even when they're in a hurry they never make you feel rushed. [No problem]
E11	Always	"After a while they call you by your name, and that's very nice.... They say they are gonna take care of you soon.... Kind of a one-to-one relationship." [No problem]
E12	Always	What can clerks say/do? Warm greeting, making sure that you get seen in the appropriate time, courteous smile. [No problem]
E13	Usually	What can clerks say/do? "good morning" "If they act as if you're kind of imposing... that's not much courtesy and respect." [No problem]
E21	A	Mr. Glen as opposed to hey you. A smile helps a lot. Asking if they need anything. If you don't want to pay that day, it isn't a hassle.
E22	A	Say if someone is in front of you and if there is an open receptionist they will help you, ask about you.
E23	A	Everyone in this particular office. Everyone was pleasant. They were not very short or blunt (that relates to courteous)
E24	S	They weren't rude or ugly, they didn't snap at me, but they gave me blank stares and no answers to my questions at all. Show you: smile, explain, can I get back with you, Let me get with this person, good customer service, at least as good as McDonalds.
E25	U	Went from A to U; Courtesy and respect is when you are acknowledged when you walk in there. Basic acknowledgement. There have been times when she was on the phone and wasn't sure if she knew I was there.

S01	Always	They were nice with me [no problem]
S02	Always	They are nice, when I ask questions they do not ignore me or treat me badly. [No problem]
S03	Always	There were always nice with me. They asked me if I wanted a coffee, and to have a seat. [no problem]
S11	Always	NO PROBLEM. They let you know if the doctor is running late so you know, they ask if you want coffee or tea.
S12	Always	NO PROBLEM. They treat you with respect, talk nicely, are friendly.
S13	Always	NO PROBLEM. They pay attention to you, not ignore you. They show me where the restroom is, let me use their phone. When I have to wait long they let me know.
Item summary		

51. How often did other staff at this surgeon's office treat you with courtesy and respect?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

Goal: Determine if respondent distinguished "other staff" from clerks and receptionists.

Who were you thinking about when you answered this? Which people at the surgeon's office?

ID	Survey response	Verbal response
E01	Skip	I never had office visits, I can't remember any. Even if I did go to his office, if he even has one, I don't think he has any staff. I would skip this whole section.
E02	Sometimes	Again, they weren't always prompt. [Possible problem; he was considering other staff to be the people behind the counter in the office area who were not the receptionist – is that what the item intended?]
E03	Always	[Possible problem; she explained that his staff all work interchangeably, they are all nurses and take turns doing the administrative things. In a case like this the question is pretty redundant, because she's answering about the same people.
E11	Sometimes	"The male nurse was excellent. The other lady was not so pleasant. Too officious." [Possible problem: he was confused at first about who the question was asking about, and then he referred back to question #50 and said "Oh OK. So the nurses."]
E12	Always	Who thinking of? "The physician's assistant." [No problem this time]
E13	Sometimes	"I wish I could separate" (she averaged how she felt about the physician's assistant with how she felt about the nurse, but they were very different—the nurse was bad but the PA was good. [Possible problem: same problem of wanting to separate the PA from the nurse, but for this question she averaged and for #49 she went to the extreme b/c she was thinking about the nurse so much]
E21	A	This is where nurses come in. Nurse and PA.
E22	A	The other nurses in the facility.
E23	A	The R.N. she was very courteous, pleasant, respectful, made me feel at ease.
E24	N	I never knew which was what. I never saw a nurse that I know of. I wouldn't know anymore, they don't wear the pretty white hose or the white cap like they used to. PROBLEM: Didn't know who he was answering about.

E25	U	Because there have been times I have been walked to my room and I have sat there for too long. Nurse could have knocked to say when to expect the doctor.
S01	Always	I was thinking about the nurses [no problem]
S02	Always	As I said before! There is no more staff than the nurses and the receptionist [definite problem]
S03		I don't know how to answer this question. In his office it was just the doctor and the receptionist and here the question it is about his office, not the hospital [definite problem]
S11	Always	POSSIBLE PROBLEM. The secretary, there was nobody else there. Answered always because nobody was ever disrespectful.
S12	Always	NO PROBLEM. Thought about the xray technician.
S13	Always	POSSIBLE PROBLEM. Maybe a different person that works there, can't think of one.
Item summary		

YOUR OVERALL CARE FROM THIS SURGEON

These questions ask about your experiences with this surgeon and the surgeon's staff before, during, and after your surgery.

52. How often did this surgeon check to be sure you understood everything?

- ¹ Never
- ² Sometimes
- ³ Usually
- ⁴ Always

*Goal: Determine if respondent attended to instructions preceding question 52.
Determine if respondents are aware of whether and how a surgeon can check for comprehension.
Determine if scale is appropriate.*

INTERVIEWER: DID RESPONDENT READ OR SEEM TO NOTICE THE SENTENCE PRECEDING QUESTION 52?

YES NO DON'T KNOW

*What can a surgeon do or say to check to make sure that you understand everything?
IF NOT "USUALLY": If someone said "Usually" to this question, what would that mean?
How different would this be from "Sometimes?"
IF "USUALLY": If someone said "Sometimes" to this question, what would that mean?
How different would this be from "Usually?"*

ID	Survey response	Read intro?	Verbal response
E01	Always	Yes	He always asked, "do you understand" as we went along. Again, I compared him to other doctors. I think doctors can speak slowly and clearly to make sure patients understand.
E02	Always	Yes	Always make sure, that's similar to before. Just to check in. [No problem]
E03	Always	Yes	I'm not sure the doctor has to "check"; he says something, I'll repeat it and he'll confirm. In general doctors should do this. [She had difficulty with the hypothetical probe]. [No problem; because although she initiates the checking, he confirms whether or not she understood correctly; he's involved in the checking process.]
E11	Always	Yes	What can a surgeon do or say...: "do you have any questions? Do you understand what I said?" For the hypothetical Usually situation, he said "There could be some circumstances... you're cranky and demanding...." How different would this be from Sometimes? "Kinda tough to answer... because it

			depends on the personal experience... I didn't have a bad experience." <i>[Possible problem: got tripped up again on the never-sometimes-usually-always scale when I probed]</i>
E12	Always	Yes	What can surgeon do/say? He asked. If someone said Usually what would that mean? "Sometimes the surgeon was thorough and sometimes he wasn't." How Usually diff. from Sometimes? "Usually implies a pattern. Sometimes might be... twice a year." <i>[No problem]</i>
E13	Never	Yes (not out loud, but commented after)	"The 'check' part is my problem." What can a surgeon say/do? "OK, now do you understand?" Said that they could explain what they are doing and ask if the patient understands. What would Usually mean? "That pretty much every time you saw the surgeon..." (they would ask if you understand). <i>[Possible problem with the word 'check']</i>
E21	A	Y	I never left the office with any questions. He can ask me if I have questions. Usually = sometimes he didn't ask, or perhaps he didn't care.
E22	A	N	They can ask you if he made himself clear, or if there was anything for me to add. Usually, same perspective, but not as thorough or clear as "always"
E23	A	Y	This means he is relying on questions from you. Did he say...? In this issue here....How often did this surgeon check...How do you know if he checked? We went back and forth several times about an issue, because he asked questions and had a lot of discussion—this was before the surgery.
E24	A	Y	Every time. Perfect demeanor. Took his time. Didn't rush. Usually would mean that perhaps he didn't check enough with him or ask enough questions.
E25	A	DK	The surgeon seemed overly diligent to make sure that I was overly comfortable that I didn't have questions, the look of nervousness on my face and he would talk to me until I understood. Usually: I put a lot of trust in surgeons, for me personally I left the ball in their court a lot. Perhaps someone who says usually would ask the same question different ways and the surgeon got annoyed after the 5 th time.
S01	Usually	Yes	He explained to me about the different options and valves. She doesn't seem to be fine with the questions about "frecuencia" in Spanish (how often) <i>[Potential problem]</i>
S02	Always	yes	Every time I asked him something, he answered it. He made eye contact . When I ask question and I don't

			understand he explains things to me again. [potential problem?]
S03	Always	Yes	He asked me if I had any question. Always means that something happened constantly and Usually (la mayoría de las veces) is more sporadic.
S11	Usually	Y	NO PROBLEM. I don't know what they can say or do to check that I understood. If someone said "Sometimes" that means that it's not always true, true a few times. Usually means most of the time but not always.
S12	Sometimes	Y	NO PROBLEM. He didn't speak Spanish but he would ask me if I understood. IF someone said "Usually" it would be because he asked if I understood more often. Find ways to make sure I understood.
S13	Sometimes	Y	NO PROBLEM. He can ask me if everything is clear, they can explain things simply. Usually would mean that the surgeon speaks Spanish, it means that we both Usually understand each other.
Item summary			

53. Do you feel this surgeon really cared about you as a person?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine criteria used in determining whether a surgeon really cares about you. Determine if scale is working properly.

What can a surgeon say or do to show that she/he really cares about you as a person? What else?

Do you think a surgeon should care about you as a person or not? Why (not)?

IF NOT "SOMEWHAT YES": If someone said "Somewhat yes" to this question, what would that mean?

How different would this be from "Somewhat no?"

IF "SOMEWHAT YES": If someone said "Somewhat no" to this question, what would that mean?

How different would this be from "Somewhat yes?"

SHOW ALTERNATE VERSION. Once again, I'm going to show you another version of this question and ask you to answer it. Don't forget to think out loud as you're answering.

Which question did you prefer?

Never - Always

Definitely Yes/No

No preference

Why?

ID	Survey response	Which version?	Verbal response
E01	Definitely yes	Definitely Yes/No	The surgeon can show they care by asking about your personal history, anticipate any concerns, find out patient concerns. I think my surgeon cared about me because he listened to my wife's concerns, he asked how the food was, you know, not always questions related to the surgery and my care. He really let his personality shine through. I think a surgeon should care. I was OK with the anesthesiologist not caring because he was not as involved as the surgeon. I like the first version [Definitely Yes/No] better because it sounds more direct. The other one is a bit ambiguous. [Answered "always" to alternate question.]
E02	Definitely yes	Definitely Yes/No	The questions she asked showed that she had interest in me. The depth of explaining the care. The way she showed interest in my family history. I think they should care about you as a person if they're going to cut into you. [Answered "definitely yes" to alternate; again liked it better because it seemed more

			definitive to him.] [No problem]
E03	Definitely yes	Definitely Yes/No	[Always on alternate] It's the time he give each appointment and takes x-rays to double check, he visited me in the nursing home on Christmas, he gave me his cell phone number. I absolutely think they should care about you, although I understand that would want to keep an emotional distance. With the Never-Always version you have to go through more words to get to it. [No problem]
E11	Definitely yes	Definitely yes/no	"As a person yes. As a patient..." (trailed off). What can a surgeon say or do...: respect, courtesy. "If he gets upset or rude, that would be a problem." Do you think a surgeon should...: "Definitely should. We all deserve respect." If someone said Somewhat Yes: "That means that there are exceptions" (like the surgeon didn't treat them well, didn't respect them). As to the alternate version, he said "I always have a problem with Always." <i>[No problem: this version worked fine for him and he liked it much better than the alternate version]</i>
E12	Definitely yes	Definitely yes/no	What can surgeon say/do? "His face looked concerned." Do you think...? "I do.... One of the qualifications... to be any kind of a medical professional...." What would Somewhat Yes mean? "That would mean... that he wasn't in this profession because he wanted to be a healer." Answered Always to alternate version but didn't like it. Preferred to say did he feel that the surgeon cared, "period." <i>[No problem. This version is better than the alternate]</i>
E13	Definitely yes	Definitely yes/no	Do you think should care? "Yeah!" Answered Always to alternate version. "I don't like the <i>often</i> questions." <i>[No problem except maybe could be dichotomous]</i>
E21	DY/A	Either one	He always made me feel cared for, concerned about. I wasn't just a number or just some money. Alt: They are both pretty much the same question. One asks for my opinion, and the other one is an observation.
E22	DY/A	DY	They felt like they should give you the best possible care, for surgery or for the best antibiotic, listening to you. SY: they feel okay about you. A: they are similar questions, but the original is better.
E23	DY/U	DY	To me that means...do I feel he cared? He didn't make you feel like a number. He listened, he was pleasant, didn't rush...if you use that as the basics. It isn't like we would go out to dinner or anything. NSUA: this is a weird question. How often.... If he cared about you he would ask a lot of questions about you. He asked a lot of questions about me and what I

			<p>did. DY vs. U: That is weird. The way they are worded, in my mind...do you feel like he cared. He asked about me personally. In the alternate there is “how often...” then I think about how many times did he do this vs. not doing it. This is a number counting question. The original is more of a personality meshing, feeling comfortable, confident question. Prefers DY version because it is simpler.</p>
E24	DY/A	Always	<p>If he didn't, he was well trained to act so. I would highly recommend him. I would possibly have the person do a double check on the staff. He can have a conference, ask you questions, ask me if I have questions, ask if I understood, make sure I was comfortable. SY—Probably, didn't care throughout. Not everytime.</p> <p>Always this is a bit better; the other one says do you feel; this has how often, more cut and dry.</p>
E25	SY/Sometimes	Always	<p>Very typical the level of friendliness. We never ran into tangents. Didn't talk about sports. I could definitely tell he was caring.</p> <p>Surgeon shouldn't care about you as a person. Not a requirement. We don't care about the surgeons as a person. We want someone who is professional and is good at their job. (<i>What a beautiful response.</i>)</p> <p>I am not crazy about the how often business. I guess I could say Never to this response. It is a gray area. I guess Sometimes. He asked me if I could take off work okay and asked to make sure that someone could take care of me for a few days or if that is just due diligence. More professional than him caring. PROBLEM: Again, “How often” is problematic.</p>
S01	Somewhat yes	She likes more the alternative question and answers	<p>Before the surgery he cared about me and he told me I was young and that I had to take care of myself. After the surgery he did not care anymore. If he had really care, he should had called me after the surgery to check in with me about how I was feeling. [No problem]</p>
S02	Definitely yes	<ul style="list-style-type: none"> ▪ She prefers alternative questions and answers, because is 	<ul style="list-style-type: none"> ▪ The doctor pays attention in that I have to go visit him regularly after the surgery [Potential problem: The question is in the past and she answers about the present]

		'more specific and easy to understand' but she likes more the answers from the original version	
S03	Definitely yes	She likes more the original question because she gets confused with "frecuencia" and answers from the alternative version	This is part of their 'etica profesional" (professional ethic??) They have to care about their patients [Potential problem. She answers according on what she think how things should be not really thinking about her own experience.]
S11	Definitely Yes	Alternate	NO PROBLEM. To show he cares about me as a person he can give me the attention necessary in a check up/examination, they keep up with your symptoms and know how the surgery went. Yes, surgeon should care about me as a person, because a person looks for a surgeon and goes in with some trust in this surgeon, one picks the surgeon. If someone says Somewhat Yes, it's because the surgeon didn't keep up with what was going on with the person. Prefers alternate because it is more specific than the original. You have Always, usually... that's more specific.
S12	Definitely Yes	Original	NO PROBLEM. He can act concerned, show you that he wants everything to turn out well. Yes, surgeon should care about you as a person, of course. Because they know they have to work with a patient, if they can't work with people they shouldn't be doctors. If someone answered "somewhat no" then the doctor would not really care about you but would just want to do the surgery. Prefers original, does not like the "how often/ frecuencia" reference in the alternate.
S13	Somewhat Yes	Original	NO PROBLEM. He asks me what I do at work, shows concern, asks how I use my hands. No, he shouldn't

			care about me as a person, he is a doctor and should concern with the medical side of it. IF someone answered Somewhat No it would be because the surgeon didn't ask me about what I do or how I use my hands. Prefers original version because it doesn't use "how often/frecuencia." It's more general, you don't have to count the number of times.
Item summary			

54. Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate this surgeon?

- 0 Worst surgeon possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best surgeon possible

Goal: Determine if respondent is using reasonable and appropriate criteria in making a judgment.

IF 8 OR LESS: What would this surgeon have to do to get a higher rating from you -- say, to get a 9?

IF 9 OR 10: What would make you lower your rating of this surgeon to an 8? That is, what could she/he do or say that would cause you to lower your rating?

IF NOT 5: And, what would a surgeon who gets a "5" be like?

ID	Survey response	Verbal response
E01	10	He was just the best I could imagine. I would lower my rating if at any time he seemed distracted, but he was always focused and reassuring. He spoke equally to myself and my wife. He was direct and to the point, and not too wordy.
E02	10	She told me about her qualifications and experience with this surgery. It felt like she shared a personal part of her history with me. A lower rating would be for a surgeon who did not go into details, showed no concern, or didn't ask about your family history. [No problem]
E03	10	He's wonderful. I would have lowered my rating if he had been cold and stern, or treated me like a formality but was no less qualified. A 5 surgeon would have been, someone none of my doctors knew, someone they couldn't say anything bad or good about, someone I couldn't connect with. [No problem]
E11	(left blank)	"Absolutely no idea.... When I think about this particular surgeon, it's very difficult to put in any category." [Definite problem: this respondent did not answer any questions with 0-10 scales. They were too difficult for him to do without a

		<i>reference point]</i>
E12	9	What would cause lower rating? “Not listen to me constructively.” What would a 5 be like? “A 5 would be a surgeon who engages in misinformation, does not keep his appointments, keeps you waiting...” <i>[No problem]</i>
E13	4	What would cause higher rating? “Not sever my nerve!” (or could have told her that that was a possibility, then she would have at least had the option to not do the surgery if she didn’t want to risk that) <i>[No problem]</i>
E21	10	His bedside manner, best bedside manner, genuine concern for patient. Very unusual. He was like a friend. 8-he could be a good manner but his bedside manner wouldn’t be the same, or just a little tired or harsh, no smiles. 5-he don’t have a personality. Near a 0. Could even be a great surgeon, but bedside manner would be bad. Doesn’t smile. No concern for the patient.
E22	10	Maybe if he didn’t perform as well as he said he was going to or if he made a mistake. 5-okay, had flaws, not completing a task, making a medical mistake.
E23	9 or 10	He did a really good job, he is personable. That is odd, you don’t think you care about personality, but you do. You spent not so much time. You don’t know if he is the best surgeon, because you would have to do more research. I would recommend him. I would use him again. 8-If I wasn’t comfortable with his personality or comfortable with the interaction prior to surgery when it is at the point of decision-making and you need questions answered.
E24	10	If I had more surgeries, I would him or someone like him. 8—Maybe if he didn’t ...well if he wasn’t as personable, more like talking to a friend rather than a professional to a patient. Not buddy like, but closer to buddy like.
E25	8	The way he explained my surgery is that he made it sound to be a cinch and that it would be way out of the ordinary that there would be complications, so he made me comfortable. Not a 9 because I didn’t have interaction with him after the surgery, although I didn’t care because I was problem free.
S01	8	She was a good surgeon, but he did not care about me anymore after the surgery. <i>[No problem]</i>
S02	9	He is good, but not perfect. A doctor with a lower rate would be a doctor that is not respectful with you. <i>[No problem]</i>
S03	10	I trusted him, I have to give him a 10! <i>[Possible problem. She rated him according to her expectations, not his performance]</i>
S11	10	NO PROBLEM. 10, a 10 is kind, attentive, cares about you. He does all this for all patients not just his friends. If I gave him an 8 it would mean he’s good but not the best. A 5 is very low score, not a good surgeon, he doesn’t care about his patients,

		just goes in to do surgery and leaves.
S12	10	NO PROBLEM. He'd get an 8 if he did his job less well, not worse but if he didn't do everything he was supposed to, if he was a little careless. I don't know what a 5 would be, if he was a 5 then he couldn't be a surgeon anymore, could he?
S13	8	NO PROBLEM. To be a 10 he'd have to have the best techniques and the best thread to reduce scarring, he'd worry about the interior and the exterior. To be a 5 he'd have to just do the surgery and not tell you about it, have little contact with the patient, doesn't follow up with your recovery.
Item summary		

55. Were the results of this surgery as good or better than you expected?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine surgeon's role in establishing expectations.

Determine how expectations are created and if they are "realistic."

What were your expectations for the results of this surgery?

What made you feel this way? That is, what did you read about -- and what did people tell you -- that made you feel this way?

And, what (else) did the surgeon say or do that made you expect these results?

ID	Survey response	Verbal response
E01	Somewhat yes	I was so nervous going into the surgery, just being done was a relief. I didn't really have time to build expectations. There were no complications. I think "definitely yes" is the best of all worlds scenario where I wouldn't have to lose a lung in the first place.
E02	Definitely yes	She wasn't what I expected. She was a lot younger than I expected. [Definite problem, he interpreted this question as his expectations about the surgeon, not about the surgery.]
E03	Definitely yes	My expectation was for the best result. I expected it would do what it was supposed to and it did. I got this expectation with the doctor and from my previous surgeries. [No problem]
E11	Definitely no	(said "definitely no" very emphatically) "I expected to be able to live a normal life. I definitely didn't expect to have problems with incontinence." What had he heard: "People who have had the same operation... at least they claim to have normal lives." What did the surgeon say: "he was always too optimistic." [No problem]
E12	Definitely yes	What were your expectations? "That it wasn't gonna work at all, that I was still gonna have 500 pounds or more." "Much better than I expected." What made you feel this way (the previous expectations)? "I had tried everything else... nothing ever worked. What did surgeon do/say? "He tried to explain that things would be better... I just didn't accept that." [No problem]
E13	Definitely no	"Ha! no!" What were expectations? "That I would have no lipoma, I would have a scar, but I would be fine." What made you feel this way? "Mostly what she said." [No problem except maybe could be dichotomous]
E21	DY	I don't have any pain. I was in a lot of pain. I thought I would still have pain. I was in so much pain when I went in the hospital, I couldn't see how it could all go away. It is stiff, but no pain.

E22	DY	We weren't sure what the outcome would be whether there would be cancer or not, and there wasn't any.
E23	DY	I had very little pain, wasn't sure if it was cancer. No complications. Surgery went well, he removed all of the tissues, but didn't intrude to anything else.
E24	DY	Definitely better than I expected because I lived off nasal spray, I couldn't breathe, couldn't sleep and it was getting worse.
E25	SY	I am still within a few months of receiving surgery. As far as the procedure, these are right on par. Recovery is frustrating because I am not 100% They told me that, but still frustrating. I expected that I would be ahead of the curve, I have been right on spot. That is why not DY. Problem: Reflects R's perception about his body rather than quality of surgeons care.
S01	Somewhat no	I thought I was going to feel much better after the surgery and I haven't felt very good [No problem]
S02	Definitely yes	The results were as good or better! I was hoping I could get rid of the cancer with the first surgery and it was like that! [No problem]
S03	Definitely yes	Yes, I expected to be fine and now I am fine. [No problem]
S11	No Answer.	POSSIBLE PROBLEM. Yes, the results were better but not definitely yes or somewhat yes. It's yes for my current level of health. Definitely yes means I'm better than before, which is not true. Somewhat yes is that it is yes but not good enough. SO it's not that either. My expectations were that the symptoms would be gone, the pain gone too. She felt this way because she talked to the doctors and her family and expected that. They told her it would all be better.
S12	Definitely Yes	NO PROBLEM. I expected to be able to walk. I expected some pain. Because I spoke to the doctor and he said I'd always have pain, just not as bad. He told me a lot about what to expect, and he was right.
S13	Somewhat Yes	NO PROBLEM. One expects to be the same as before surgery but it's not possible. I just expected my hand to work well, without problems. I just knew, and I talked to the surgeon before. He explained everything to make sure I knew what to expect.
Item summary		

ABOUT YOU

56. In general, how would you rate your overall health?

- 1 Excellent
 2 Very good
 3 Good
 4 Fair
 5 Poor

Goal: Determine the comparison group being used in making this judgment/

When you said [RESPONSE], who were you comparing yourself to? That is, what kinds of people were you comparing yourself to?

ID	Survey response	Verbal response
E01	Very good	I was comparing to myself a year ago, before I started having all this trouble. I was a runner, and now I can't run as long and hard. [If you compared yourself to another group of people, who?] I guess two-lunged people. [Possible problem if the item wants them to compare to a group of people]
E02	Excellent	I was comparing me to myself. [Yourself before the surgery?] Yeah, and after the surgery. My healing ability and because there were no complications. [Possible problem if the item wants them to compare to a group of people]
E03	Fair	I compared me to myself when I was in excellent condition. I've been at poor, too. [Possible problem if the item wants people to compare themselves to a group of people.]
E11	Fair	This problem, diabetes, arthritis. He compared himself "to people my age I guess" and didn't consider himself to be in great shape because they play golf, etc. <i>[No problem: compared himself to people his age; this seems reasonable]</i>
E12	Excellent	"When I read this question, it's conflicting.... Do they mean now or... overall... in 46 years?" "In general' can mean a lot of things." (he said that if they had this survey in the doctor's office it might specify "since your surgery, how would you rate..."). Who were you comparing yourself to? "I wasn't comparing myself to people..." he said he was comparing himself to himself having come from a state of very poor health to having improved greatly. <i>[Definite problem: E12 is comparing to a past version of himself, E11 is comparing to other people his age. Maybe the question should specify comparison reference]</i>
E13	Good	comparing to "people who don't have anything wrong." <i>[Possible problem with comparison group?]</i>
E21	Good	Today?? I was comparing myself to myself when I was 25, as opposed to myself at 52. I didn't have knee problems at 25.

E22	Very good	Comparing myself to someone who had cancer.
E23	Very good	I don't have any problems. But excellent is working out and you are. I don't smoke and rarely drink. I don't have any other health issues. I could lose a few pounds and could work out more. I don't think I compared myself to anyone. Maybe a self examination.
E24	Very good	Not excellent b/c I am a little overweight, a little bad cholesterol. But I don't take any meds, and I have a Crohn's disease. Especially for my age. I compared myself to other people my age or younger.
E25	Very good	Not comparing myself to anyone. I am a member at a gym. I tend to eat a healthy diet. I think I am above average. Excellent someone who has a stricter diet, stricter work out regimen.
S01	Fair	I am comparing myself with other people of my same age [No problem]
S02	Fair	I am comparing me with myself. I feel things I should not be feeling at my age [no problem]
S03	Fair	I have some health problems [No problem]
S11	Very good	NO PROBLEM. Comparing to self, because she still has symptoms. Excellent means that you don't have any problems.
S12	Fair	NO PROBLEM. Comparing to self. I still have pain, I have high blood pressure, hi cholesterol. So it's not good.
S13	Good	NO PROBLEM. Was comparing to myself before the surgery.
Item summary		

57. What is your age?

- ¹ 18 to 24 years
- ² 25 to 34
- ³ 35 to 44
- ⁴ 45 to 54
- ⁵ 55 to 64
- ⁶ 65 to 74
- ⁷ 75 years or older

ID	Survey response	Verbal response (if any)
E01	45 to 54	
E02	55 to 64	
E03	65 to 74	
E11	75+	-- <i>[No problem]</i>
E12	45-54	-- <i>[No problem]</i>
E13	55-64	-- <i>[No problem]</i>
E21	45-54	
E22	18-24	
E23	45-54	
E24	55-64	60
E25	25-34	
S01	45 to 54	
S02	35 to 44	
S03	35 to 44	
S11	No answer	My age isn't here, I'm 48, can I write it in?
S12	55 TO 64	
S13	35 to 44	
Item summary		

58. Are you male or female?

¹ Male

² Female

ID	Survey response	Verbal response (if any)
E01	Male	
E02	Male	
E03	Female	
E11	Male	-- <i>[No problem]</i>
E12	Male	-- <i>[No problem]</i>
E13	Female	-- <i>[No problem]</i>
E21	M	
E22	F	
E23	M	
E24	M	
E25	M	
S01	Female	
S02	Female	
S03	Female	
S11	Female	
S12	Female	
S13	Male	
Item summary		

59. Not counting this surgery, about how many other surgeries have you had?

- ¹ None
- ² 1 surgery
- ³ 2 surgeries
- ⁴ 3 to 5 surgeries
- ⁵ 6 to 9 surgeries
- ⁶ 10 or more surgeries

Goal: Determine whether minor office and dental surgeries are being considered as surgeries.

IF NOT NONE: Tell me about them. What were they for?

Do you think they want you to count things like have a mole removed in the doctor's office as a surgery or not? Why (not)?

How about dental surgeries, such as having a wisdom tooth removed? Do you think they want you to count this or not? Why (not)?

ID	Survey response	Verbal response
E01	2 surgeries	I had to pollops removed before. [He was did not include his wisdom teeth surgery. He didn't even think of that until it was mentioned, but said he would not include that here because "it was so long ago and it was in-and-out, it was not the same sort of thing."]
E02	3 to 5 surgeries	I count anything where they have to cut into you. I wouldn't count wisdom teeth removal unless they cut into your gums. [He hadn't had this surgery] I wouldn't count a mole.
E03	10 or more	Tonsils, some eye surgeries, knew surgery. I did not include mole or wisdom teeth removal. [No problem]
E11	3 to 5	tonsillitis, appendicitis, 2 brain surgeries, bladder reshaping. Mole removal: "They probably should not [count that]. It's too minor." Dental surgery: "No, that is not really surgery." [No problem: didn't include dental or minor surgeries]
E12	1	Struggled but then went back to 'Not counting this surgery'. Initially put 2 and then changed to 1. He had emergency surgery (I think it was a follow-up to this surgery) in December. Count mole removal? "No.... I'm thinking of... invasive surgery." Count dental e.g. wisdom teeth removal? "Yeah, I think that would need to be counted, because that's sort of invasive." [Definite problem: counted dental surgeries. Maybe question should specify not to count those]
E13	3-5	Mole removal? "No I only counted under anesthetic... cutting open." Dental? "In my head no I didn't." [No problem]
E21	3-5	Back, appendicitis, in office surgery. I would include mole

		remove; anytime you take something to kill pain, sure, I would call it. Wisdom teeth: if they put you to sleep, yes. Numbing, no.
E22	2	Gall bladder (not functioning properly); Tonsillectomy, for one tonsil. Mole-No Wisdom-Yes but didn't include it because it wasn't a major surgery.
E23	3	Vasectomy, hernia, left shoulder, not sure if vasectomy counts, but there is a cut, so yes. Surgery—you go into a hospital...well I didn't go to the hospital for vasectomy. Mole—too simple, no. Wisdom—surgery, he was out. He was incapacitated for several days and it involved care.
E24	0	Mole—no, not included. Crowns & root canals—no, I personally wouldn't but I guess I could see others. Surgery means going under (anesthesiology)
E25	0	Are root canals surgery? No. Wisdom teeth—no. Going under the knife....
S01	None	[No problem]
S02	1 surgery	<ul style="list-style-type: none"> ▪ I had another surgery like the one we were just talking about now, but years ago. ▪ A surgery is when they open something in your body and they stitch it up. So a wisdom tooth removed is a surgery but a mole removed is a procedure. [potential problem?]
S03	2 surgeries	She counted this surgery as part the of 2 surgeries she have had. [definite problem]
S11	1	NO PROBLEM. It was a c-section. Yes, a mole removal should be included because it can have small veins and it can bleed. Wisdom teeth removed also counts, it's very delicate. It requires anesthesia.
S12	3 to 5	NO PROBLEM. Bladder, varicose veins, gallbladder (visicula?), knee, varicose veins again. No, removing a mole should not count as a surgery, it is very minor and you can walk out right away. Dental yes if they use anesthesia.
S13	3 to 5	NO PROBLEM. Had 3 before this, different places. Don't think a mole removal counts as a surgery here because it means being cut open in an operating room. Dental surgeries: yes, some are complicated and need anesthesia.
Item summary		

60. What is the highest grade or level of school that you have completed?

- ¹ 8th grade or less
- ² Some high school, but did not graduate
- ³ High school graduate or GED
- ⁴ Some college or 2-year degree
- ⁵ 4-year college graduate
- ⁶ More than 4-year college degree

ID	Survey response	Verbal response (if any)
E01	Some college or 2-year degree	
E02	Some high school, but did not graduate	[Respondent provided a long verbal response explaining why, but no item problem].
E03	--	Skip because of time constraint
E11	more than 4-year college degree	-- [No problem]
E12	4-year college grad	-- [No problem]
E13	more than 4-year college degree	-- [No problem]
E21	Some coll	
E22	HS	
E23	Some coll	
E24	Some coll	
E25	More than 4 yr college degree	I am not sure how to answer. I am in grad school now.
S01	Some college or 2-year degree	
S02	8 th grade or less	
S03	Some high school, but did not graduate	
S11	High school	

	grad	
S12	8 or less	
S13	4 yr coll grad	
Item summary		

61. Are you of Hispanic or Latino origin or descent?

- ¹ Yes, Hispanic or Latino
² No, not Hispanic or Latino

ID	Survey response	Verbal response (if any)
E01	No	
E02	No	
E03	--	Skip because of time constraint
E11	(left blank)	This I hate. What does it have to do with anything? <i>[Definite problem: refused to answer]</i>
E12	No	-- <i>[No problem]</i>
E13	No	-- <i>[No problem]</i>
E21	No	
E22	No	
E23	No	
E24	No	
E25	No	
S01	Yes, Hispanic or Latino	
S02	Yes, Hispanic or Latino	She does not know the word 'ascendencia'
S03	Yes, Hispanic or Latino	
S11	Yes	I don't know what Latino means.
S12	Yes	
S13	Yes	
Item summary		

62. What is your race? Please mark one or more.

- ¹ White
- ² Black or African American
- ³ Asian
- ⁴ Native Hawaiian or Other Pacific Islander
- ⁵ American Indian or Alaskan Native
- ⁶ Other

ID	Survey response	Verbal response (if any)
E01	White	
E02	Black or African American	
E03	--	Skip because of time constraint
E11	(left blank)	(talked more about hating race/ethnicity questions) <i>[Definite problem: refused to answer]</i>
E12	White	-- <i>[No problem]</i>
E13	White	-- <i>[No problem]</i>
E21	Black or African American	
E22	White	
E23	White	How can you be more than one?
E24	White	
E25	White, Asian, Pacific Islander	
S01	Other	Mexican American
S02	Other	No black no white
S03		Blank. None of them
S11	White	
S12	White	
S13	White	
Item summary		

1. Overall, what questions did you have problems with? Please elaborate.

ID	Response
E01	Just the office visits piece. I think the wording should be “in hospital visits” to include those who were only in hospital patients.
E02	No. I hope it helps to show patient needs.
E03	Skipped because she had to go meet her ride. Although earlier she mentioned that in general she like questions like the Definitely Yes/No version of 29/13 because, “the commas break it up, I like the wording; it flows better”.
E11	“The ones that are always-never. Those bother me.”
E12	Number 56. Had problems with ‘in general’. Thinks it should be more specific, like ‘now.’ About the other questions, he said “Generally, they’re all pretty well OK.... I think that some of the questions are repetitive.... It can be aggravating.”
E13	(ran out of time so didn’t ask)
E21	I have a problem with the responses of definitely yes; I would prefer different response options. Sometimes they were okay. For example 12, definitely is okay, somewhat I didn’t understand. Prefers NSUA. It is easier.
E22	None of them.
E23	Questions that had a fine line; like what is surgery? How do you classify? Sometimes how the questions—the “how often” questions, were oddly worded. It seems like it should be a number for the response options. But the rest of the question would reflect a personality issue, like how often did the surgeon answer your questions? I am just a month past surgery so it was easier to answer.
E24	These questions are cut and dry. Your questions are overboard.
E25	See questions: How often
S01	The question about the surgeon, whether he was nice or not, because he was nice, but I did not see him anymore after the surgery, so it was different before and after. Also, ‘no mucho, no’ and ‘un poco, si’ are funny.
S02	The question about “descent:” and about the doctor’s office because he has no more staff in his office and they were asking about the office, not the hospital I did not know what post-operative means either.
S03	
S11	Just the ones I couldn’t answer, there was no big problem I just couldn’t answer them.
S12	No
S13	Some were hard because it’s been a while since the surgery took place (about 5 months), so sometimes I forget something. I didn’t like questions with “how often/frecuencia,” hard to have to count each time.
Summary	

2. Was there anything else that was unclear or confusing to you, or anything that sounded strange?

Yes ---> Please describe

No

ID	Response
E01	No.
E02	No.
E03	Skipped because she had to go meet her ride.
E11	"The race issues."
E12	--
E13	(ran out of time so didn't ask)
E21	Only one question sounded strange. I had to read it outloud.
E22	
E23	See survey.
E24	
E25	
S01	
S02	
S03	
S11	No
S12	No
S13	No
Summary	

Surgical Care Survey

Reporting Template

Second Round

March 16, 2008

BEFORE YOUR SURGERY

2. Was your surgery scheduled as soon as you needed?

- ¹ Definitely yes
 ² Somewhat yes
 ³ Somewhat no
 ⁴ Definitely no

Goal: Determine if respondents are using "reasonable" criteria for determining their need for the surgery to be scheduled when it was scheduled.

How come you said [RESPONSE] instead of [RESPONSE_{±1}]?

When was the surgery scheduled for? Do you remember the scheduled date?

Was this as soon as you wanted it or not?

ID	Survey response	Verbal response
E04	Somewhat yes	I wanted to have it sooner. Choose "somewhat yes" instead of "no" because I know they planned as soon as they possibly could, they are very busy. But I had to wait about 3 months and I was in a lot of pain, so I would have preferred it sooner. [No problem]
E14	Somewhat yes	(didn't read the "Before Your Surgery" heading). "There was some confusion... and she took my name off the list of people still wanting surgery... Dr. H put my name back on the list." Was this as soon as you wanted? "No, I would have rather had it sooner." [No problem]
E15	Definitely yes	"Absolutely... he responded immediately." Scheduled for August 16. "I would have liked it a little earlier, but that was my fault." [No problem]
E16	Somewhat yes	"I terminated employment in January... perhaps should've asked more questions... there were a lot of unknowns... my surgery wasn't until March 23 rd !... [My] surgeon was very busy..." As soon as you wanted? "I would have preferred if it could have been done a little bit sooner." [No problem]
E26	Somewhat yes	Surgery was scheduled, but in pre-op, it was though respondent had a heart problem. So they ran additional tests – there was no heart problem and rescheduled the surgery. The surgeon that had a cancellation so they moved the surgery up earlier. So, it was not on time because of the need to reschedule, but it was sooner than expected.
E27	Somewhat yes	She chose to delay her surgery so that her recovery time would occur over the holidays when she did not have to work. So, she noted that she probably needed the surgery earlier, but scheduled it when it was more convenient to her schedule. Potential problem: Her surgery was not delayed because of the surgical

		facility, but because of her work schedule. That is, she had the surgery when she wanted it – the Thursday before Christmas.
E28	Definitely No	<i>Reads survey instructions. Filled out Q1.</i> I needed it sooner than they could schedule. He is a very busy and recommended surgeon—I was in pain. Scheduled for originally 10/07, but moved it up to 9/07.
E29	Definitely Yes	They offered a date that was sooner than I expected. I expected maybe 4-6 weeks, and it was scheduled within 2-3. Wanted-I hadn't thought about it. Wasn't sure because the holidays were coming up. She offered the date and it seemed great. Long enough before the holidays for recovery so it worked out good. December 6, 2007
E30	Definitely yes.	I had several choices of when to do it; I chose it for one after a contract assignment. October 29,2007. As soon as wanted as well.
S04	Somewhat no	I need the surgery in Nov and I got it in February
S05	Definitely yes	It was very fast
S14	Definitely Yes	Definitely Y vs. Somewhat Y: Because as soon as I went to see him we scheduled the surgery there was no wait. It was aesthetic surgery. It was scheduled for January 2008. Yes, it was quick, as soon as I expected it. Did not probe on alternate Spanish responses.
S15	Definitely Yes	Definitely Y vs. Somewhat Y: Because it was as soon as I needed it. It was scheduled for January 21, it was scheduled in 8 days. Yes, it was scheduled quickly. ALTERNATE SPANISH RESPONSES: [read several times to find the difference]: are they different? the middle 2 are the same in both so I don't know that I prefer one or the other. I like the "definitely yes" more than just "yes" because it shows I really do agree that it was done when I wanted the surgery, but I don't know if there really is a difference, they both say yes anyway.

3. Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine how respondents who don't want information answer this question.

About how much information about your surgery did you want?

Do you think you got this much information or not?

IF INCONSISTENT WITH THEIR RESPONSE TO Q.3, SAY: So, can you explain a little more about why you said [RESPONSE TO Q. 3]?

ID	Survey response	Verbal response
E04	Definitely yes	Yes, because my first back surgery with another doctor didn't go well, so he gave me a lot of information. He used a model to explain everything. It was plenty of information. [No problem]
E14	Somewhat yes	"I wanted to know absolutely everything." "There were a couple of things that I had to ask." [No problem]
E15	Definitely yes	She wanted to know about healing time so she could plan for going back to work (she's a P.E. teacher). Do you think you got this much information? "Yes – but I asked for it." [No problem]
E16	Definitely yes	"Yes he did. That was great." How much info did you want? "Maybe not as much as some people but... I really wanted to know what they were gonna do." "He answered all the questions to my satisfaction." [No problem]
E26	Definitely yes	Respondent had had this type of surgery before and knew a lot already about the surgery, but felt that the surgeon gave a lot of information before the surgery was done.
E27	Definitely yes	She wanted to know about the procedure, recovery time needed, and how much time she would need to take off work. She got information on what the procedure entailed, recovery time, pain, and taking time off work. She felt that she got all the information she needed.
E28	Definitely yes	I wanted a lot of information; I got a lot of information. Then they went through it again right before surgery.
E29	Definitely yes	I knew a little bit about it before because I was considering it years ago. This surgeon was very thorough. I was confident with what and the scheduler told me. How much: I like to know everything that goes on. I put it off for several years. I did my own research. They were matter of fact and described how it helped.
E30	Definitely yes	They had to do a biopsy, then a consultation, then again with my wife. I didn't know they were doing a consultation. They gave me a lot of

		<p>information—they sent me information. They sent me information on pre-op and send pre-op instructions.</p> <p>Wanted information: I wanted the basic surgery instructions, don't drink, don't eat, where to go. Very specific information—it was at rex. I really needed detailed instructions my first surgery, not so much this time.</p>
S04	Definitely yes	<p>She told me the pros and cons of getting the surgery. I think the information I received was good. He prefers “hacer una cirugia” but it has the same meaning than “realizar una cirugia” [No problem]</p>
S05	Somewhat yes	<p>It was enough for me to know that he was going to do. He did not give a lot of information to me. I had to take some fliers from the hospital to inform myself better.. I asked to the doctor to give me those fliers. The doctor did not give to me all the information I needed. I had to read the fliers. [Potential problem? The doctor gave her the fliers. Would that count as doctor giving information?]</p> <p>I usually say “hacer una cirugia”</p>
S14	Definitely Yes	<p>Wanted a lot of information, wanted to know the consequences and all that would happen after. Also wanted to know about the process and how the surgery was going to be done, what would happen postoperative, how that would be, what to expect. Yes, she got the info she wanted. SP: “Realizar” means the same as “Hacer” and she prefers the use of “realizar” in the question.</p>
S15	Definitely Yes	<p>I wanted to know if it was dangerous, if the anesthesia would cause any problems. Yes, I got the information I wanted, I trust my surgeon he has operated on me before. Spanish: “realizar” means was it done when one needed it. It does not mean the same as “hacerla,” I prefer “realizar” because “hacer” means that anybody can do it, you can do it yourself. “Realizar” means that it gets done, by someone else, not by yourself.</p>

4. Did this surgeon or this surgeon's staff give you easy to understand instructions about getting ready for your surgery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if 'getting ready for surgery' is interpreted consistently.
Determine if scale is working as intended.*

*What do you think they mean by "instructions about getting ready for your surgery?"
Can you give me some examples of these instructions?*

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

ID	Survey response	Verbal response
E04	Definitely yes	They went into detail about the medication and what I could and couldn't take. I think this would refer to telling the patient about pre surgery medications, what you shouldn't eat or drink beforehand, what to bring. I said definitely because they don't push you along, they were very systematic about moving me through the steps to make sure everything was covered. [No problem]
E14	Definitely yes	"Don't have anything by mouth after midnight, what time to report..." [No problem]
E15	Definitely no	(She verbally emphasized "getting ready") What do you think they mean...? Written instructions, pre-printed packet, don't eat after such-and-such a time. "They gave me a paper." Why did you pick Definitely No instead of Somewhat No? "Canned instructions" (they weren't personalized to her situation; she didn't find them helpful because of that. [No problem]
E16	Definitely yes	"everything that is required by me prior to the surgery... needed to have the cardiogram... wasn't going to be able to eat anything the day before..." (then talked about also getting recovery instructions for after the surgery "It was quite a procedure." "I had no problem." [No problem]
E26	Definitely yes	The respondent noted that she takes a lot of medications and the surgeon went over the medications and which could be taken and which should not. He also told her what she should wear home since she had an incision in her abdomen. And, they also told her how uncomfortable it was going to be.
E27	Definitely yes	Instructions included what not to eat, when to stop eating, medicines not to take. She got these hand-written instructions and also verbally at the pre-surgery visit at the surgeon's office. She chose 'definitely yes' rather than 'somewhat yes' because she got the information twice – both face to face and in the mail.
E28	Definitely yes	It was in my case, what I needed after surgery, what I could not do

		<p>after the surgery; preparing my family, including what I need after the surgery, also not eating after midnight and the loose clothing you wear.</p> <p>DY, not SY because they were very clear. They give you a list, ask if I had questions, and gave both verbal and written instructions.</p>
E29	Definitely yes	<p>Just any ...prep work, eating drinking, that kind of think. They gave me a sheet. They said the hospital would call. They talked to me. More the staff told me than the surgeon. The scheduler was very thorough about giving me everything on the sheet and going through. I left with no questions.</p>
E30	Definitely yes	<p>Because they have a specific sheet; if you are having outpatient, do this, that the other. I thought they could have separated the inpatient and outpatient a bit more. It was very standard.</p> <p>DY instead of SY: it gave me enough information that I needed; I had outpatient before so I noticed that one sentence was off. It was good. It was complex. I was able to follow everything.</p>
S04	Definitely yes	<p>"Instructions about getting ready for your surgery" means that they told me about what I could eat or not and how should I do when I was in pain.</p> <p>[Potential problem: He mixes the pre and post surgery moments]</p>
S05	Definitely yes	<p>He told me I couldn't drink and I had to go to sleep early [No problem]</p>
S14	Definitely Yes	<p>Yes, they told me what to do but I also ask a lot of questions so I also get information that way. Instructions include things like hygiene before the surgery, other things that one needs to do before like have your blood pressure checked, your heart, put your [hospital] gown on and things you need to do in the waiting room, if there's anything else you need to do. Definitely Yes vs. Somewhat No: Because they told me what I needed to do and they answered my questions if I didn't understand.</p>
S15	Definitely Yes	<p>That means that you get a good explanation of what you need to do, how to prepare like not eating or drinking after midnight. Definitely Y vs. Somewhat Y: because I think they gave me a good preparation. IF I answered Somewhat Y it would be because I wasn't certain if it had been good but I am.</p>

5. Before your surgery, did you phone this surgeon’s office with a medical question?

¹ Yes

² No → **If No, Go to Question 7**

Goal: Determine if 'medical question' is interpreted as intended.

What do you think they mean by 'medical question?' Can you give me some examples?

IF YES: What medical questions did you call about?

ID	Survey response	Verbal response
E04	No	I didn't have any questions. I suppose this would refer to questions about medicine, blood pressure for me, or if something didn't feel right. [No problem]
E14	No	What do you think they mean? "Am I supposed to feel this way, how would this affect another part of my body... something that pertains to the body." [No problem]
E15	No	What do you think they mean? Pre-surgery questions pertaining to your condition, "tied directly to safety." [No problem]
E16	No	What do you think they mean by 'medical question'? "If they hadn't made it real clear as to the fact that they didn't want me eating anything... was water OK...." [No problem]
E26	Yes	She asked about her medications. Medical question meant anything with medical history.
E27	No	She could not remember calling the surgeon's office before the surgery – she felt they had covered all her medical questions. She was not sure what they meant by 'medical question', but gave examples such as which medications to take and would her husband need to care for her.
E28	No	Something that had to do with my health, or part of the surgery itself.
E29	No	I had no questions. MQ: After you schedule something, something might come up, or if you have a question about something later.
E30	No	No, the only thing I called about was scheduling. I called the nurse. I asked for 2-3 dates. Just leave enough information; that is what they did. The only medical question I had was post op. Medical question—continued symptoms of a condition, expecting any changes, what types of things I should be concerned with, what is benign.
S04	No	<i>Medical question means if I had questions about side effects from the surgery and things like that.</i>
S05	Yes	I called him because I had a question about a medicine I was taking and I wanted to know if that would affect my surgery [No problem] There are some extra spaces on the question in the Spanish version
S14	No	It means any question you have about what is going to happen during or after the surgery, any doubts you may have or if you're taking medicines and you want to know if can still take them or not.

S15	Yes	That means if I went and asked the surgeon if there were any possible problems I should be aware of, how long they would last, what I have to do after the surgery. When I called I had pain and I called the doctor, he said to go to the hospital and he called them before I got there.
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6. Before your surgery, when you phoned this surgeon's office, did you get your medical questions answered as soon as you needed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if scale is appropriate for this question.
 See if respondents with only one question have problems with this item
 Determine how respondent makes judgment about whether the answer was "as soon as needed."*

What do you think they mean by "as soon as you needed?"

About how many times did you call with medical questions?

And, about how many times did you get answers as soon as you needed?

IF RESPONSES APPEAR INCONSISTENT WITH ANSWER TO Q.6, PROBE TO DETERMINE REASON FOR DISCREPANCY.

ID	Survey response	Verbal response
E04	--	Skipped correctly, although she started to read the question, then caught the mistake and moved on.
E14	Somewhat yes	(should have skipped this one, but I don't think it's a problem with the survey. I broke her flow with my probing to the prior question, and this question is at the top of a new page so #5 wasn't immediately visible for her to look back up and see the skip instructions. I don't think there is a problem with the skip pattern. [No problem]
E15	--	(skipped correctly)
E16	--	(skipped correctly, although he talked about it and looked back to the previous page to make sure he was doing it right; he also said he thought it would be better if the instructions were specific and said "if yes go to question 6")
E26	Definitely yes	As soon as you needed meant "as soon as I asked. ASAP." With all the rescheduling for her surgery, she probably called with medical question 4 or 5 times. If she did not get the answer immediately, she for the answers within that day.
E27	Skipped	
E28	Doesn't apply	Should have skipped.
E29	Skipped	
E30	Skipped	
S04		He skipped it correctly
S05	Definitely	"as soon as you needed" means that the doctor had to tell me yes

	yes	<i>or no, and give me explanations if there is any risk ... [No problem I guess]. I only called once and I got my answer as soon as I needed it.}]potential problem, what about if the person called many times and have different experiences each time?]</i>
S14	Definitely No	Missed Skip. I didn't call. "As soon as you needed:" that means if they answered your question quickly, didn't make you wait long, they didn't say they would call you back.
S15	Definitely Yes	Means that if it was an emergency that they answered me quickly. It was, they answered my questions about pain. I only called once and they answered me very quickly.

7. Before your surgery, how many office visits did you have with this surgeon?

- ¹ None --> **If None, Go to Question 17**
- ² 1 Visit
- ³ 2 Visits
- ⁴ 3 Visits
- ⁵ 4 to 6 Visits
- ⁶ 7 or more Visits

Goal: Determine if all visits are being included or just visits related to this surgery.

Do you think they are asking about all the visits someone has ever had with their surgeon or only visits related to this particular surgery? Why?

ID	Survey response	Verbal response
E04	3 visits	I was thinking of all of the visits related to the surgery where I went into his office. [No problem]
E14	4-6	Said that she thought the question was asking about this particular surgery. Why? "Because it says 'before your surgery'." [No problem]
E15	7 or more	(Included visits with this surgeon pertaining to 2 other surgeries). Do you think they are asking...? "Couldn't tell." [Definite problem: she included visits other than just pertaining to this surgery.]
E16	7 or more	"[The question] doesn't give me any time frame." "I had been seeing this doctor about this problem for over a year." Do you think they are asking about all... or only... related to this particular surgery? Respondent looked at question again and repeated "before your surgery". Said he thinks they're only interested in this specific problem. [Possible problem: he responded by including visits other than those related to this surgery, but it was for the same foot problem. His doctor tried several ways to fix his foot for a couple of years and they ended up doing surgery; maybe this question should specify for cases like this?]
E26	1 visit	She was thinking of visits for this particular surgery and the visits you need before your surgery. Definite problem: In a later question, she noted that this would be more than 1 visit. She had a visit to diagnose the problem, a visit to see the films. So, although she answered 1, it was really 2 or 3 visits.
E27	4 to 6 visits	Respondent noted that she originally went to this surgeon because she was having problems with numbness in her right hand. She went a number of times to the surgeon for cortisone injections to see if that approach would relieve the problem. Once it did not, they decided to schedule surgery. She felt that it was difficult question. When probed about the visits – she said she was including all the visits she ever had. If they were only including visits related to the surgery, she would have marked 2 visits – diagnose for surgery and the pre-surgery visit.

		Potential problem: Depending on the intent of the question, the respondent may have chosen the wrong category. Although the 4 to 6 visits were for the same problem, only 2 visits related to the surgery.
E28	2 visits	I had one that was a consult and the second one was the day of surgery; pre-surgery office visit. Includes visits particular to the surgery. Definite problem: Included visit at the time of the surgery.
E29	None→1 visit	That was my first appointment. Oh no, just visit before the surgery. It only relates to this particular procedure. Potential Problem: Originally forgot about initial consult.
E30	4-6 visits	Not the physical with PCP, an initial consult with surgeon, then he scheduled for a biopsy, follow up to biopsy, follow-up with wife. This related to particular surgery; otherwise I would double the number of visits. I understood this question; you might say “your most recent surgery” Potential idea: see above for change in wording
S04	1 Visit	I only had one visit with her regarding this surgery [No problem]
S05	3 Visits	The version in Spanish says 3 o 6, it should say 3 a 6 I only had 3 visits related with the surgery
S14	2 visits	This is asking about the visits related to the surgery only, because that’s what you talk about when you go to the surgeon, you go see him to talk about what will be done at the surgery and the surgeon does the patient evaluation.
S15	1 visit.	This asks about only the visits that have to do with the surgery, because we’re talking about this surgery only. I don’t think it means about all surgeries, that wouldn’t make sense.

8. During your office visits before your surgery, did this surgeon talk to you to find out about important things in your medical history?

¹ Yes

² No

Goal: Determine if "important things in your medical history" is being interpreted consistently and properly.

Determine if discussions with the surgeon's staff are being included.

Determine if there are appropriate reasons for these discussions to NOT have been conducted.

What do you think they mean by "important things in your medical history?" What are some examples of "important things" in someone's medical history?

IF YES: Tell me a little more about this surgeon talking to you to find out important things about your medical history. What things were talked about?

Who did this -- the surgeon, the surgeon's staff, or both?

IF NO: Why not?

ID	Survey response	Verbal response
E04	Yes	Both he and his personal assistant, who isn't an RN, asked questions. She takes notes for him of things he should talk to me about. I think this would include information about prior surgeries, blood pressure, reactions to medicine. [No problem, unless survey intends respondent to consider family medical history here...]
E14	Yes	What do you think they mean? "medicine allergies, previous medical procedures, how you react to anesthesia..." They talked about her allergies, and the fact that she'd never had a live birth. Who? "Dr. H himself.... The gal that handled pre-op procedures asked me some questions too" (but was repetition of what surgeon had already asked) [No problem]
E15	No	"He already knew me" (this was her third surgery with him.) What do you think they mean...? Pre-existing medical conditions, is your heart bad, do you react bad to anesthesia, medications. [No problem]
E16	Yes	"The general practitioner was very good about forwarding information... the surgeon... [pulled] up my file... he was asking good questions... I would say certainly yes." What do you think they mean by 'important things...'? "If I'd had... any heart problems, or diabetes, or things along that line." [No problem]
E26	Yes	The surgeon talked with her about her other health problems such as fibromyalgia and the different medications she was taking. He also talked with the respondent about how she would feel after the surgery.
E27	Yes	Respondent re-read this question multiple times – she seemed to struggle

		<p>with important things in her medical history. She eventually decided that medical history included family history, what medications she was on, the work environment and what caused her problem, sleep she was losing because of the numbness.</p> <p>Potential problem: Although respondent answered correctly, she struggled with the wording of the question.</p>
E28	Yes	<p>Previous surgery, health problems, ongoing health problems, anything that might make surgery dangerous. The surgeon.</p>
E29	No	<p>“important things” that is a little fuzzy. I guess...if there was something relevant to the surgery, he would have asked it. He didn’t ask about my surgery. I did fill out a patient information sheet.</p> <p>Potential problem: Although respondent answered correctly, she struggled with the wording of the question.</p>
E30	No	<p>I think he already knew. He talked to PCP. He had been my urologist since 1996, so he probably knew. I did put it down on the sheet. I made to make a choice. He didn’t recommend going to an oncologist, I did anyway. All three said do surgery. It was a difficult decision. I went to multiple websites, I did a lot of research on what option to do. He already knew my medical history.</p> <p>Potential Problem: Respondent’s “no” doesn’t represent a negative response as the surgeon knew the medical history because R & surgeon worked together before.</p>
S04	Yes	<p>Important INFORMATION means if I had allergies or diabetes for example. The doctor asked about the pills I was taking and told me about the pros and cons. He was only thinking about the surgeon, not the staff. [No problem]</p>
S05	Yes	<p><i>“important things in your medical history” means allergies, diseases or infection I might had have. I had high blood pressure and I told the doctor about it and asked if there is any risk for me to have a surgery because of it. He said he would keep an eye on it. I was thinking about the surgeon. [No problem]</i></p>
S14	Yes	<p>[Medical history]: This means things like family problems, illnesses that run in the family like heart problems, diabetes, low blood pressure. Those are the things he asked me, he also asked me if I was allergic to any medicine, if heart problems ran in my family.</p>
S15	Yes	<p>[medical history]: they have to ask that, they have to know it, like family history, health problems you have, allergies or chronic diseases. The surgeon asked me, he wanted to know all that.</p>

9. During your office visits before your surgery, did this surgeon tell you there was more than one way to treat your condition?

¹ Yes

² No --> **If No, Go to Question 12**

Goal: Determine how "treat your condition" is interpreted..

IF YES: Tell me about the different ways to treat your condition that were discussed.

Is this question asking about the choice of whether or not to have the surgery -- or is it asking about something else? IF SOMETHING ELSE: What else?

ID	Survey response	Verbal response
E04	No	I didn't have any other option. I would think this means the option to have the surgery or not. [No problem]
E14	Yes	"That's why he tried the less invasive [procedure, the ablation of the uterine wall] that didn't work" Is this question asking about...? "It <i>implies</i> other ways besides surgery, but it doesn't ask it, no." She suggested adding "other than surgery" to the end of the question if that was what was intended by the question. <i>[Possible problem: maybe we need to be more specific about what exact alternatives this question is getting at?]</i>
E15	Yes	Whether or not to have the surgery, and if yes, whether to shave the bone spur or take it out. Is this question asking...? "Surgical and non-surgical options." <i>[No problem]</i>
E16	Yes	"There are certain things you can do maybe to avoid the surgery... if I wore the boot for a while... but he assured me that the chances of not having this pain in my foot was excellent if I did have the surgery." "He did discuss with me the possibility of cortisone injections... and we actually did some of the procedures..." Is this question asking about...? (He talked about his situation some more, and then said it sounds like the non-surgical alternatives weren't really going to be solutions. I had trouble getting him to think about what the question was asking in general and getting him away from talking about his particular situation). <i>[No problem]</i>
E26	Yes	This was a surgery to fix a disconnected shunt. Before she had the shunt put in, she had talked with her surgeon about different treatment options. For a while, she had done different treatment, but it did not work. So, then they tried surgery. This surgery will need to be re-done every 10 years or so to replace the shunt. The respondent felt that this question was saying if there's more than one way to go, would rather you have surgery or something else?
E27	Yes	Respondent initially received another treatment from this surgeon for carpal tunnel before deciding on surgery. She went about 4 times to the office for cortisone shots. She was told that cortisone treatment

		temporarily relieves the problems. She was also told about exercises that she can do to relieve the problem. If these approaches did not work, the surgeon said they would discuss surgery.
E28	No	My situation was not “treatable” it was about removing something or leaving it there. PP This question is asking about whether or not to have surgery. PP
E29	Yes	He talked to me about the other ways of non-surgical ways of treating condition; I had used them years before. He didn’t force me into anything. But if I have tried them before and it is worse, this will take care of it (the surgery).
E30	Yes	When we first got results, I was numb, he took extra time to go through everything, but it seemed very fast. He mentioned cryotherapy, he said you could do it this way, but never saw it work, never saw radiation work. I checked it with other specialists and confirmed that surgery was the best idea. This asks about more than one treatment option.
S04	Yes	The surgeon told me about the two options I had and which one was the best for me. [No problem]
S05	No	During the first appointment the doctor did not give her any other options, then the doctor had a meeting with other doctors and told her there were no other possibilities than the surgery. [potential problem, When she answers the question, she is just thinking about the first appointment. See response to Q 10].
S14	No	There was no other option, and this was an aesthetic surgery.
S15	No	NO, I had to have surgery. The only other thing would be pain medications but that wouldn’t be enough.

10. During your office visits before your surgery, did this surgeon ask which way to treat your condition you thought was best for you?

¹ Yes

² No

Goal: Determine if respondents are interpreting this item literally (i.e., the surgeon asking "Which way to treat your condition do you think is best for you?").

IF NO: Why do you think the surgeon didn't ask which way you thought was best?

How did the surgeon know which way you preferred?

IF YES: How did the surgeon do this? How did the surgeon figure out which way you thought was best for you?

ID	Survey response	Verbal response
E04	--	Skipped correctly
E14	No	"He gave me alternatives to choose but he didn't actually ask me which I thought was best." (then she went on to say that she trusted him so it wasn't a big issue). How did the surgeon know which way you preferred? "We talked about it." <i>[Possible problem: taking this too literally?]</i>
E15	No	"He didn't ask, I told him." Why do you think he didn't ask? "Cuz I've had him before." <i>[Possible problem: taking too literally? They did discuss which option she thought was best, but apparently he didn't ask]</i>
E16	Yes	"He was... terrific about letting me know that they could do some of these other things... cortisone... it's not as simple as a hip replacement..." How did the surgeon figure out which way you thought was best? "Because I've been going to see him for close to two years... CAT scan... X-rays... we'd been in discussion about the whole thing for over a year... I had an opportunity to understand it..." "His advice to me was... 'don't have the surgery!'... We didn't rush into it... I finally did decide that... it was time to get the thing fixed." <i>[No problem]</i>
E26	Yes	Potential problem: Respondent may be thinking back to previous surgery when there was a choice of treatment. There did not seem to be other treatment choices for this surgery in particular.
E27	No	The surgeon said "this is what is best for you." After trying other approaches (cortisone shots and exercises), this was the next step to correct the problem. Potential problem: Although respondent had been given other treatment approaches, at the point of surgery there was not another choice for treatment. A negative response to this question may be difficult to score.
E28	<i>Skipped</i>	
E29	Yes	<i>Repeats question. Thinks about question.</i> Because I told him that the

		alternatives had not worked. He didn't finish my sentence and say "this is best for you." I said I wanted a long-term solution, and he said "well this will do it."
E30	Yes	In the first office visit, he said there were other things, but emphasized that surgery was really the only option. He mentioned the other options. I went through, thinking out loud, and why I should choose this option and he agreed.
S04	Yes	She told me about the pros and cons of the surgery. She also told me that I could keep taking the pill, but I was risking on having another attack even worse than the one I had had already. [No problem]
S05	Yes	<i>How did the surgeon figure out which way you thought was best for you? He talked to me. He told me the risks of the surgery and medicine and what were the benefits if I had the surgery</i>
S14	No	Missed Skip Pattern.
S15	No	Missed Skip pattern.

11. During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?

¹ Yes

² No

Goal: Determine if "risks and benefits" is interpreted correctly.

Determine if talks with staff are being included.

IF YES: Tell me about this. What was discussed?

Were these discussions with the surgeon, the surgeon's staff, or both?

IF NO: Why not?

What do you think they mean by "risks and benefits of your treatment choices?" What are some (other) examples of this?

ID	Survey response	Verbal response
E04	--	Skipped correctly
E14	Yes	They talked about the option of "twilight sleep" instead of being put totally out, they talked about whether or not to leave the ovaries in. What do you think they mean? "implies financial as well as physical risks... how many weeks off work..." <i>[Definite problem: only discussed risks, not benefits]</i>
E15	No	"The question is real clear." "Not so much risks as... probable outcomes... the positive sides... healing time." <i>[Definite problem: answered question as if it only asked about risks!! She mentioned that they discussed benefits and still answered No to the question]</i>
E16	Yes	"He was very good about... discussing this problem with me and... my wife... it was going to impact her as well." Then respondent went back and re-read "the risks and the benefits." He said that his doctor said it would eliminate that pain, "benefits of course would be that I could walk again without it being so painful" and then he also talked about risks. <i>[No problem]</i>
E26	No	"Not really, they just say there's a risk in all surgery." Respondent described risk as if you didn't have surgery, what would happen or things like infections and not waking up from surgery. Benefits were the outcomes of surgery.
E27	Yes	The surgeon and surgeon's staff discussed the risks and benefits of treatments. Risks included what would happen if she started keyboarding too soon after surgery and what could go wrong with surgical procedures. Benefits included not feeling numbness after surgery.
E28	Yes	Should have skipped.
E29	Yes	To a degree, yes; 90% success rate with no pain after, but there was a

		<p>chance that it wouldn't completely heal things. He discussed the benefits with me. For me it related to pain; I just didn't want more pain. I have a chronic condition, but this does control the pain. 90% have no pain after, but there was a chance of pain.</p> <p>Surgeon. Nurse was in there, but she didn't participate.</p> <p>Treatment choices—have surgery or not and alternatives; and the risks and benefits—what good could come out of it and what the problems that might arise.</p>
E30	Yes	It was so fast. Risks with surgery, transfusion, some of the benefits. It was very important to do. The surgeon did this.
S04	Yes	Yes, I talked to the surgeon. Risks and benefits are for example if the results of the surgery are good or bad and what it is better for me to do [No problem]
S05	Yes	He talked to me about this after the second visit. [No problem]
S14	Yes	Mainly he talked to me about the risks after the surgery, how I had to be careful with what I did. He talked about the risks with the anesthesia. I think he just told me as a warning, what could happen. It was with the surgeon. But yes also with his staff, nurse, anesthesiologist.
S15	Yes	He told me there were very little risk, that it was a quick procedure, and the benefit would be that I wouldn't have that much pain anymore. I talked about this with the surgeon and his staff but more with the surgeon.

12. During your office visits before your surgery, did this surgeon listen carefully to you?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if this scale is working properly.

Determine if respondents can make appropriate judgments about the surgeon's attentiveness.

What do you think they mean by "listen carefully to you?" That is, what did the surgeon do or say that showed he/she was listening carefully to you?

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

ID	Survey response	Verbal response
E04	Definitely yes	"Definitely" because "somewhat" wouldn't get it fully. He talked to my whole family and asked non-medical questions. "Listen carefully" means that he is attentive to what I'm saying. Good communication, it's not just answering my questions but the back and forth communication that shows he's listening carefully. [No problem]
E14	Definitely yes	What do you think they mean? "Repeating back what you have said..." or saying "I understand". Why did you pick Definitely Yes instead of Somewhat Yes? "Because of 'before your surgery'." (she mentioned that there was one time <i>after</i> the surgery when her visit got cut short because she started crying and the surgeon didn't know how to handle so he kind of cut the visit short) [No problem]
E15	Definitely yes	What do you think they mean...? "listening to my concerns and my needs... my outcomes are being addressed." Why did you pick Definitely Yes instead of Somewhat Yes? "I didn't even have to think about that.... He was very attentive." [No problem]
E16	Definitely yes	"He was always good about making sure all my questions were answered." "He really listened as to what was going on." [No problem]
E26	Definitely yes	Before the surgery, the respondent wanted to know where the shunt had become disconnected in her body. The surgeon took the time to bring her back to his office and show her the films of where the shunt was disconnected.
E27	Definitely yes	She felt that the surgeon was a good listener. He listened to what caused the problem and about the sleep she was losing. He did not rush through the visit. He had a calm demeanor and took time to sit with her. She compared him to her family doctor which she called "Dr. Jiffy Lube."
E28	Definitely yes	He paid attention, he was attentive as far as getting a clear idea of

		what I wanted and he could do. There was no “if” about it—he was “aggressively attentive”
E29	Definitely yes	He was thorough in listening to me, I felt like I had his attention. DY: I felt that he was very thorough. He was pleasant. Good bedside manner, but got down to business. He did a brief exam; 10-15 second, talked with me, eye contact.
E30	Somewhat yes	I am thinking through—my wife said he was a tactition and wants to get through this. My wife is very astute—he is a technical and focuses just on one part of body. The oncologist (as opposed to the surgeon) hugged me. The surgeon was very technical. This was within his surgery, he had done this a million times, and he was very, very confident.
S04	Definitely yes	He listened all the questions I had and explained everything to me. [No problem]
S05	Definitely yes	<i>What do you think they mean by "listen carefully to you?" That is, what did the surgeon do or say that showed he/she was listening carefully to you? I think that it happens when they pay attention what you feel. If they are nice people with you. In this case the doctor was listening and writing down what I was telling to him. [No problem'</i>
S14	Definitely Yes	[Listen carefully to you]: When surgeon talks to you about the entire process and everything that could happen he listens to you and your doubts, your questions. Definitely Yes vs. Somewhat Yes: he listened to me anytime I wanted to talk and I ask a lot of questions and he answered them all.
S15	Definitely Yes	It means he pays attention to you, if you have questions he answers them and he explains everything you ask very patiently. He always answers my questions. Definitely Y vs Somewhat Y: Because he always answered me, and when I told him I'd had problems with anesthesia he said he'd use something lighter this time. He was very patient and always listened.

13. During your office visits before your surgery, did this surgeon spend enough time with you?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if this scale is working properly.

Determine if respondents can make appropriate judgments about spending enough time.

What do you think they mean by "spending enough time with you?"

So, about how many office visits did you tell me you had before your surgery?

And, for how many of these visits did the surgeon spend enough time with you?

IF RESPONSE IS INCONSISTENT, PROBE TO DETERMINE REASON FOR INCONSISTENCY.

ID	Survey response	Verbal response
E04	Somewhat yes	I think he spent as much time as he had. He definitely spent quality time. [Would you have wanted more time or more visits, something else?] It's not that really, it's hard to say. [What about time for each visit?] Yes, that's it really. I would say yes for the first visit, no for the second visit, and yes for the last one. [No problem, she lowered her rating because he wasn't consistent in this area]
E14	Definitely yes	What do you think they mean? "listening until your questions are answered." Said had 4-6 visits before the surgery; surgeon spent enough time with her during all of them. <i>[No problem]</i>
E15	Definitely yes	"I think 'enough' is a real funny word." "I don't think you can define 'enough'." (but according to her anyway, she had 6-7 office visits and he spent enough time with her during all of them) <i>[Possible problem: is the word 'enough' too subjective?]</i>
E16	Definitely yes	"He would squeeze me in." (even if he had other appointments he would make time for him). What do you think they mean...? "meaning that I never left his office thinking that my questions hadn't been answered... due to his... having to go do something else." "I was always satisfied." <i>[No problem]</i>
E26	Definitely yes	She felt that the surgeon took the time to answer all her questions and show her the film where the shunt had become disconnected. She thinks she had at least 2 office visits before the surgery – one where they told her the shunt was disconnected and one where they showed her the films. She thought for both of these visits, the surgeon spent enough time with her.

E27	Definitely yes	Respondent felt that he spend enough time to have my questions and concerns addressed. He listened and answered questions. She had about 5 visits with the surgeon before surgery and felt that, for all of them, he spent enough time with her.
E28	Definitely yes	Making you feel like you weren't rushed. He would sit as long as you needed to answer questions. 2 visits. Both times he spent enough time.
E29	Definitely yes	He said what I had, this is what he could do, asked me what I had done before. Plenty of time. Spending...: some doctors make you feel more rushed than others. Make you feel like a number. He gave me all I needed in terms of what I needed to know. Ample time with me. Other doctors have rushed me. He is just a surgeon, but he was caring. One visit
E30	Somewhat yes	Today they don't have enough time. I think he had his mind made up and he might have got bugged by my questions. I had another urologist who cut me off and not listening to me. I come in with a list of questions, and some docs get a little nervous. People need to write their thoughts down, it is a nervous time. It is a stressful time for patients, not surgeons. I would have liked a few more minutes with him. 4 visits. The first time he spent a lot of time, 2 nd time, probably enough time but you are numb; 3 rd time somewhat yes, would have liked more time just a bit; 4 th time, again, somewhat yes.
S04	Somewhat no	I only visited her once before the surgery, so I am not sure what they mean by "enough time". During that visit, I spent 30 minutes and that was enough for me not to have any more questions. [Definite problem: Enough is very subjective and participant did not know if we meant enough across all visits or enough during what visit. Participant said, somewhat no because he only visited her once, even though the visit was enough]
S05	Somewhat no	No, because he has other things to do as well, I am not his only patient. I only saw him during the surgery before I felt sleep and then I only saw him once. [Potential problem. She is thinking about the overall time she spent with her. Maybe we can bold the first part of the question]
S14	Somewhat No	It means if he stayed with me the whole visit, not just his staff. Had 2 visits and in both of them he didn't spend enough time with me.
S15	Definitely Yes	Yes he takes his time to explain things to me, and I ask a lot of things because I don't know a lot about surgery. He answers and he doesn't rush you. Had 1 visit before the surgery and he spent enough time with me then.

14. During your office visits before your surgery, did this surgeon encourage you to ask questions?

- ¹ Definitely yes
² Somewhat yes
³ Somewhat no
⁴ Definitely no

Goal: Determine if this scale is appropriate.

Determine if respondents can make appropriate judgments about whether the surgeon encouraged questions.

What do you think they mean by "encourage you to ask questions?" That is, what can a surgeon say or do to encourage you to ask questions?

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

ID	Survey response	Verbal response
E04	Definitely yes	He made sure at every part that I ask questions. He clearly asked if I had questions, or "do you understand?" He really encouraged questions even with his nonverbal cues. [No problem]
E14	Somewhat yes	Repeated "encourage me". "Wow, that's a toughie." What do you think they mean? "Do you understand that 2 + 2 = 4, and that 4 + 4..." "it's part of active listening". Said she picked Somewhat Yes instead of Definitely Yes because at the end of every session her surgeon asked her if she had questions but only at the end. [No problem]
E15	Definitely yes	What do you think they mean...? "is there anything more you need to know... is there any more information you need about this" Why did you pick Definitely Yes instead of Somewhat Yes? "always very positive... making you feel comfortable asking questions." [No problem]
E16	Definitely yes	"He did say that he wanted to make sure that all of my questions were answered." "He was very good..." [No problem]
E26	Definitely yes	Respondent first said, "didn't they already ask me this?" Encourage me to ask questions meant that the surgeon asks her – "do you have any questions?"
E27	Definitely yes	Respondent said that the surgeon asked 'are there any more questions?' or 'what do you think of this?' When her husband came to the pre-surgery visit, the surgeon asked the same of her husband.
E28	Definitely yes	He told me to ask questions.
E29	Somewhat yes	I know he said "if you have any questions, let us know." And I think if I asked, he would have answered, but frankly, there wasn't a lot of time.
E30	Somewhat yes	He encouraged me to ask me questions. He said I knew I would have questions. He came off very concerned a second time. Very encouraging,—but later he knew that I would ask.

		Encourage—before he gave me results, he said you might want to sit down because you have some questions. Asked my wife if she had questions as well.
S04	Definitely yes	She asked me whether I had more questions to ask [No problem]
S05	Definitely yes	He encouraged me to ask questions, he was nice. He said I could ask all the questions I wanted so I could feel comfortable before the surgery
S14	Somewhat Yes	NO PROBLEM. It's important that the surgeon is aware of the patient concerns, the patient needs to feel comfortable. He didn't really do much but that is because I always ask a lot of questions so he didn't have to do much, maybe I didn't let him encourage me to ask questions. Somewhat Y vs. Somewhat No: Because even when one person starts to ask questions, the other can always answer very conservatively and then you don't want to ask more questions and he wasn't like that, he'd answer all my questions with enough explanation. Did not probe on alternate Spanish versions.
S15	Definitely Yes	He asks me if I have any questions, he tells me that if I do to go ahead and ask. and that's good, because if I don't ask he won't know my worries. Definitely Y vs. Somewhat Y: because he definitely asked if I had any questions and I didn't feel he did that only a few times, he did it all the time. I feel very comfortable with that doctor. ALTERNATE SPANISH RESPONSES: Yes, he did. I think again, the answer is the same in both, I prefer definitely yes because it's a better grade for the surgeon than just yes but again, I think in the end they both say yes.

15. During your office visits before your surgery, did this surgeon treat you with courtesy and respect?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if this scale is working properly.

Determine if respondents can make appropriate judgments about courtesy and respect.

What did the surgeon do or say that made you feel he/she was treating you with courtesy and respect during these office visits?

And why did you say [RESPONSE] instead of [RESPONSE_{±1}] for this question?

ID	Survey response	Verbal response
E04	Definitely yes	Definitely because it starts before you walk in with the way the staff treats you. When he came into the room he greeted my mother first and asked her questions, to me that really showed respect. He seemed to care beyond me. His staff was the same way, too, they hug you and ask about my son. [Where you considering staff also in answering?] No, I guess I was just thinking about the surgeon. [No problem]
E14	Definitely yes	“Oh my, definitely yes!” Spoke her name, called her on his day off, laughed at her jokes, took her step-by-step through what they were going to do. [No problem]
E15	Definitely yes	What did he do/say? “By allowing you to ask questions and making you feel comfortable” (he didn’t make her feel like her questions were dumb; he listened to her needs) Why did you say Definitely Yes instead of Somewhat Yes? “Always, definitely, definitely.” [No problem]
E16	Definitely yes	“I can compare him to another doctor in their office that I wasn’t particularly happy with... just always in a hurry.” (he wasn’t getting devoted attention) “We were very happy with this guy.” [No problem]
E26	Definitely yes	At the beginning of their relationship (she has seen this surgeon since she was 18 years old), she felt that he was a “buthole.” He was cocky and arrogant and felt that he knew the best thing and she needed to trust him to do the right thing. She said at some point, his bedside manner changed, and now, he asks her to tell him what she is thinking and asks if she has any questions. She said definitely yes instead of somewhat yes because she used to hate him and now she really likes him.
E27	Definitely yes	She felt that the surgeon showed her courtesy and respect by checking her hand, sending her to X-rays for more information, taking time to ask questions, not rushing her. She noted that some doctors

		yell at you when you're older (as if you are hard of hearing), but he did not.
E28	Definitely yes	He didn't never talk over me, he listened to me, he answered my questions thoroughly, very congenial about it. He really likes what he does. He wants surgery to be successful.
E29	Definitely yes	I would have gone to someone else if it had been different. Came in, shook my hand, smiled, just had a real good bedside manner. Rapport, some small talk. DY: I felt confident with him and just felt he was very courteous. I wasn't a number. He recognized the problem.
E30	Definitely yes	Always professional, never you are an after thought. Even on the 4 th visit, mainly with my wife, he told us when to leave. He said we are going to get you fixed.
S04	Definitely yes	She never responded something rude or had a bad attitude towards me [No problem]
S05	Definitely yes	He was nice. He did not ask any other question that was not related with the surgery [No problem]
S14	Definitely Yes	The way he spoke to me, very calming and reassuring. Said I was in good hands and that everything would be ok and that the team was well prepared, made me feel very calm and that he respected me. Definitely Y vs. Somewhat Y: Because he was very courteous in everything that he did, he wasn't courteous only once in a while.
S15	Definitely Yes	I know him, he does my mammograms, and he always treats me with courtesy, he makes me feel safe and that I can ask him anything. Definitely Y vs. Somewhat Y: If I answer somewhat yes it means I'm a little unsure about it, and that's not the situation.

16. During your office visits before your surgery, did this surgeon or this surgeon's staff use diagrams, models, videos, or other materials to help explain things to you?

¹ Yes

² No

Goal: Determine if there are appropriate reasons for a negative response.

IF YES: How did they do this?

IF NO: Why not?

Did you want them to explain things to you or not?

ID	Survey response	Verbal response
E04	Yes	He used a model of the spine to show me the intricacies of what he was going to do. [No problem]
E14	Yes	(read 'or' as 'and' but I don't think it was a problem) "He did, once. Plus, his walls are covered with diagrams." (he showed her on a chart about taking the uterus out vaginally as opposed to making an incision) [No problem]
E15	Yes	He has a foot (model) and diagrams. "but not his staff... it was all directly him." [No problem]
E16	Yes	X-ray, he showed him all the different angles, he also had charts on the wall. [No problem]
E26	Yes	During the visit, the surgeon showed her the CT films which showed where her shunt had been disconnected.
E27	Yes	She received paper handouts at the third visit before surgery with exercises that she could do to help the problem. She also thought she got a handout with diagrams (pictures) about where the surgery will occur.
E28	Yes	He had a computer program, to see before and after pictures of others. He used my own body as a diagram. I wanted him to explain to me.
E29	No	I don't think they were necessary. Minor procedure. I didn't want any. [Note, she had a tummy tuck—it may have also been relatively obvious about what was going to be done] Potential Problem: Depending on item intent, this negative response doesn't represent poor quality. If that is fine, then there is no problem.
E30	Yes	Pathology report, lots of posters he has around. One of the reps gave him a 3 dimensional model. There were visuals of the biopsy package. He used models, diagrams, but no videos. I wanted an explanation; he explained the terms. It was very reassuring. He recommended a type of surgery, not just a surgery. Open surger vs. Davinci surgery.

S04	Yes	She showed some flyers to me, showing me how the surgery was going to be [No problem]
S05	No	They gave me fliers, which is not the same [Not sure if this would be a problem] I did not need him to explain more things to me. I had asked to family and friends already and I had the fliers. Please see her answer 3 to compare. There are inconsistencies.
S14	No	Maybe it would be inconvenient to do so, might take too long. It would have been good if they had, as a patient you always worry and have fears about the risks.
S15	Yes	He showed me the xray and explained what needed to be done.

YOUR SURGERY

17. After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?

¹ Yes

² No → **If No, Go to Question 19**

Goal: Determine how the respondent interprets "visit."

See if patients who had in-office surgery have problems answering this item.

IF NO TO Q.17: When did you first see the surgeon on the day of your surgery? Tell me a little about it.

Is this what you expected or not? Why?

Did you see anyone from the surgeon's staff or team on the day of your surgery, before your surgery? IF YES: Whom?

ID	Survey response	Verbal response
E04	Yes	I first saw him at the pre-op room. He had told me that's what would happen, so that's what I expected. No one from his staff saw me before the surgery, no. [Possible problem; she does say later on that that a bunch of people moved her through the pre-op process; would they survey consider these people to be part of the surgeon's staff or team? I think she is considering people from his office.]
E14	Yes	He came to see her, apologized for the wait [No problem]
E15	Yes	-- [No problem]
E16	Yes	"I had a chance to talk to him before the surgery." [No problem]
E26	Yes	The surgeon did visit her before the surgery. She said that sometimes the surgeons do and sometimes now – "you never know." She had also seen the anesthesiologist before the surgery. Her medical records were not there, and she has a small windpipe. So, the anesthesiologist said that they were looking for her medical records because he wanted to see what others had done before. He had confidence that he could take care of any problems that came up, but just wanted to see what had been done before in her previous surgeries.
E27	Yes	The surgeon came to the room when she was being prepped and asked if she was doing OK. It was about an hour before surgery – when the IV was being put in.
E28	Yes	
E29	Yes	
E30	No	I did not see him. I kind of see him pop in. Never saw him that day. I didn't

		expect to see him. I figured I'd see his staff or something. He was on some board for research; so at 7 p.m. he visited after his board meeting. I saw the assistant. He came in twice. It was nice. MRSA was running around the hospital, he wanted me out.
S04	Yes	He does not read any of the titles, does it matter? surgical facility, is a place that is separate from the hospital, not in the same building, but in the same property. It is where they have less complicated surgeries, like the one I had [No problem] The doctor got to the hospital and he introduced me to the rest of the team
S05	No	She asked" are you asking if the surgeon had an appointment with me before getting into the operation room?" No, I saw him there, when he was already dressed to star the surgery [No problem]
S14	Yes	I think so, I was very nervous right before the surgery. I saw a nurse and the anesthesiologist. Spanish: "centro de cirugia" is the place where they do the surgery.
S15	Yes	He told me that everything was going to be ok, that it would be fast and I'd be home soon. Yes, it was what I expected, it made me feel better. Also saw the anesthesiologist. Spanish: "centro de cirugia" is the place where the operation was going to take place.

18. Did this visit make you feel more calm and relaxed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if scale is appropriate
Determine how the respondent interprets "visit."*

Tell me a little more about this visit.

Where were you when the surgeon visited?

When was it?

And, how come you picked [RESPONSE] instead of [RESPONSE_{±1}]?

ID	Survey response	Verbal response
E04	Somewhat yes	“Somewhat” because you can’t ever be totally relaxed before surgery. “Yes” instead of “no” because it did help. I was especially nervous because of my previous failed surgery. It was reassuring when he came him, he told it would go alright and said he’d see me on the other side. [Possible problem; sounds like she’s interpreting the question as, “did the surgeon make you feel totally relaxed?”]
E14	Definitely yes	“Oh definitely more calm.” (he took time to explain things to her). It was in pre-op, about 30 minutes before surgery. [No problem]
E15	Definitely yes	“[They] come and say hi, just talk to you before.” “before you’re groggy.” It was “right before they wheeled me in and put me to sleep.” [No problem]
E16	Definitely yes	“I’m glad he was there to say hi.” “He was very good there.” [No problem]
E26	Somewhat yes	The surgeon visited her and said “I see we have a problem with your medical records. We’ve done this 100 times before.” She saw the surgeon in pre-op about 15 minutes before surgery. She was in pre-op for about an hour while they were looking for her records. She did not choose definitely yes, because they did not have her records.
E27	Definitely yes	She felt more relaxed because she knew he was there and would be operating on her. It was the Thursday before Christmas and felt comforted that her doctor was still available to do the surgery.
E28	PROBLEM	Um. This question...doesn’t work. I wasn’t nervous. If I say no, it sounds like it didn’t help, but really I wasn’t nervous. If I say yes, it makes it sound like I was nervous. Surgeon visited me in a pre-op waiting room, right before the surgery. Definite problem: Participant wasn’t nervous.

E29	Somewhat Yes	Somewhat, the staff really helped calming me; he was there to do surgery. The staff at the hospital—that was their job. He had a very busy schedule.
E30	<i>skipped</i>	
S04	Definitely yes	I was calm. But I felt more calm when I saw her there
S05		Skipped correctly
S14	Somewhat Yes	It helped a little but when the time gets there you get scared again. When he visited I was in a regular room and they had already taken my blood pressure, I was already in a hospital gown. It was right before the surgery. Somewhat Y vs. Somewhat No: Because I was already scared but it did help a little, I wasn't 100% calm but definitely it helped.
S15	Somewhat Yes	Yes, but there's always some fear left, fear of the anesthesia. I was in the hospital when I saw the surgeon, it was right before the surgeon.

19. After you were admitted to the hospital or surgical facility, were there any long delays before your surgery began?

¹ Yes

² No → **If No, Go to Question 21**

Goal: Determine if "long delays" is consistently interpreted.

About how long did you have to wait after being admitted for your surgery to begin?

And, what do you think they mean by "long delays?" That is, how long is a "long delay?"

ID	Survey response	Verbal response
E04	No	I think it was about an hour before the surgery started. They took me in and did this and that and then I got the anesthesia, so I don't know exactly when the surgery started. [How long did you wait in the waiting room?] 15 minutes. [What's a long delay?] An hour in the waiting room would be a long delay. [Possible problem; she was able to answer the question, but considered time beyond the waiting room, interpreted this literally.]
E14	Yes	Had to wait 2½ extra hours. (the lady whose surgery was before her had a problem that the surgeon had to deal with) What do you think they mean by 'long delay'? "Over an hour" <i>[No problem]</i>
E15	No	"an hour at the very very most." What do you think they mean...? "I automatically thought of 4 hours, I have no idea why." (then mentioned that sometimes you hear of people who are scheduled to have surgery at noon but they have to check in at 8am) <i>[Possible problem: long delays doesn't seem to be consistently interpreted]</i>
E16	No	How long did you wait? "Within an hour... put the gown on..." What do you think they mean...? "any point in time that I was thinking... 'what's going on?'... 'where are they?'" <i>[Possible problem: this is consistent with at least one other respondent but the others don't seem to be interpreting 'long delay' the same]</i>
E26	Yes	There were long delays – for about 2 hours because they couldn't find her medical records. She felt that a long delay was 30 minutes to an hour.
E27	No	She had to be there about 6:30 or 6 AM – her longest wait was sitting in the waiting room for about 20 to 25 minutes. She did not consider this a long delay because she could see that the people who were there before her were going back. Once she was in the back, there was always something going on. She would feel that it was a long delay if she was sitting there and no one was paying attention to her – 10 minutes could be too long if you were being ignored.
E28	Yes	He was late. It was delayed 20 minutes. That morning would have been 10 minutes, because I had waited so long. It through it off more than 20 minutes; I waited for 40 minutes.
E29	No	They were looking for me; I was 15 minutes late. Long delay: any delay not getting processed, waiting for surgeon. When I

		was a teenager I had a cyst removed, but they got their schedules mixed up and the surgeon didn't come.
E30	No	In fact they tried to get me in quicker. Long delay: Having to wait, pushing me back more than 15-30 minutes. I don't want them to rush. I want them to take their time. I took some happy medication too. I wasn't nervous.
S04	No	Wait for more than 30 minutes. I say more often "retraso largo" I even got into the operation room earlier than I thought [no problem]
S05	yes	I waited for 10 minutes. A long wait is over an hour. I said yes, because when you are nervous the times goes slowly, so even if it was 10 minutes it was a long wait for me [Potential problem?]
S14	No	It was fast, I waited half an hour. Long delay means that maybe they are not ready so you have to wait. Maybe it's an hour. Having to wait for more than you normally expect, a long wait. Spanish: "retraso largo" & "demora larga" are the same thing, prefers "demora larga"
S15	Yes	Yes, because the surgeon was doing another surgery. It was supposed to start at 9am but he had to do an emergency surgery and I had to wait, an hour. A long delay is 2-3 hours. Spanish: "retraso largo" and "demora larga" mean the same thing. I would prefer "demora larga."

20. Were you kept informed about how long you would have to wait for your surgery to begin?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is appropriate

IF NOT "DEFINITELY NO": Tell me about it. That is, who kept you informed?

How often did they tell you?

Why did you choose [RESPONSE] instead of [RESPONSE_{±1}]?

ID	Survey response	Verbal response
E04	Definitely yes	They moved me along. Each person told me how long I would wait for the next person and what they would do. They were really specific.
E14	Somewhat yes	"It was a while before they came in." The pre-op staff first came to talk to her and then later the anesthesiologist (to apologize for the wait, explain, etc.) <i>[No problem]</i>
E15	Somewhat no	She mentioned a friend of hers in Florida who works as a "surgical liaison" and her sole job is to keep everyone informed, and she said that they didn't have that and that "I don't think they've even heard of it out here." She said they never came to tell her about the wait. <i>[Possible problem: maybe this item should be dichotomous? I don't know if that would solve anything though. It just seems like this person's response should have been Definitely No]</i>
E16	Definitely yes	"They were terrific. They told me what was going on." <i>[No problem]</i>
E26	Definitely yes	They kept looking for her medical records. They came back every 10-15 minutes telling her that they hadn't forgotten her.
E27	<i>Skipped</i>	
E28	Definitely Yes	I was thinking about the number of times the nurses came by and told me what was going on. They told me 3 times, more than just "somewhat yes"
E29	<i>Skipped</i>	
E30	<i>Skipped</i>	
S04		Skipped it correctly
S05	Definitely no	No one said anything/ I was thinking about the doctor or the nurses
S14	Definitely Yes	They told me when things would take and it calmed me down, knowing what was going to happen next. They would tell me every few minutes. Definitely Y vs. Somewhat Y: because they really let me

		know what was going on and it helped me to calm down. Did not probe on alternate Spanish Version.
S15	Definitely Yes	Yes, they told me as soon as they knew that I'd have to wait an hour. They told me this twice. Definitely Y vs. Somewhat Y: because they told me a couple of times what was going on and when doctor came in he apologized. ALTERNATE SPANISH VERSION: Yes. Here I'd prefer definitely yes because they did tell me what was going on and they had a good reason to keep me waiting. I don't know, I like it better but in the end both answers tell you yes.

21. Were any family or friends in the building during your surgery?

¹ Yes

² No → **If No, Go to Question 23**

Goal: Determine if 'in the building' is interpreted correctly.

What do you think they mean by "in the building?"

IF NO: Did you want any friends or family to be around during your surgery?

IF YES: How long were they in the building?

ID	Survey response	Verbal response
E04	Yes	My mom, my sister, my grandma. "In the building" would be the waiting room or the cafeteria. They were there for many hours because it took a long time for me to wake up, they were there the whole time until I woke up. [No problem]
E14	No	She had sent her husband home. Her cousin was there until the surgery. What do you think they mean...? "Actually on the hospital grounds." (then she described big multi-building campuses and said that in that case it would mean in the actual building where the surgery was taking place) [No problem]
E15	Yes	"In the building' sounds really weird to me.... They could be in the 42 nd floor while I'm having surgery." "I think they're trying to ask if they're in the waiting room." How long were they in the building? "The whole time." [Possible problem: 'in the building' seems to causing issues]
E16	Yes	"My wife was there." What do you think they mean...? "referring to... she was in the lounge... or area of the hospital." [No problem]
E26	Yes	Her mother was there. At the outpatient services, someone has to stay in the building during the surgery. She was there the whole time – at least 2 hours.
E27	Yes	Her husband was in the hospital facility for the entire surgery – about 3 times. He was with her in the prep area the entire time and was in the waiting room for the surgery.
E28	Yes	Wherever you have surgery, in my case not a hospital, not a surgi center, it was at his office, it has an operating room. They were there an hour before the surgery started and 30 minutes at the end—they left and came back. It was a 6 hour surgery.
E29	Yes	Building—I don't know. In the facility, in the out patient area with you. They were there the whole time; well my husband was; and my mother came 15 minutes after we got there.
E30	Yes	My wife, her friend, and she brought her books and snacks. Building-waiting area. How long-she was there for the entire surgery and certainly waited

		afterwards—was there for 2 days. She had the HPOA.
S04	Yes	“the building” it is where the surgery took place. I wanted my friends to be there all the time.
S05	Yes	<i>My friends and family were "in the building",, in the hospital or in the waiting room for 3 hours [No problem]</i>
S14	Yes	“Building” means the place where I was, they were in the same place wehre I was. My mom waited with me the whole time, 7 hours. The surgery was 4 hours and afterwards for 2-3 hours she was there.
S15	Yes	My son waited for me, ‘building’ means the place where I was. He was there the whole time, the surgery lasted an hour and a half.

22. Did this surgeon or a member of the operating team discuss your surgery with your family or friends immediately after the surgery was over?

- ¹ Yes
- ² No
- ³ Don't know

Goal: See if there were any confidentiality problems related to HIPAA.

Determine how people who do not want this information shared respond to the question.

Determine how "immediately after the surgery was over" is interpreted.

What do you think they mean by "immediately after your surgery was over?"

IF YES: Tell me a little more about this. Who discussed the surgery? What did they say?

Did you want them to discuss the surgery with your family or friends -- or not?

IF NO OR DON'T KNOW: Did you want them to discuss the surgery with your family or friends -- or not? Why (not)?

ID	Survey response	Verbal response
E04	Yes	The doctor talked to my whole family, I was there, but I was still asleep. My sister wanted to know everything. I didn't have a preference either way if he talked to them or not. It was good because they are the ones taking care of me. [No problem]
E14	--	(skipped correctly)
E15	Don't know	(Seemed very excited that Don't Know was an option). "I have no clue, didn't ask." Did you want them to discuss...? "Didn't care... I just wanted to wake up." [No problem]
E16	Yes	"I found out later." (The doctor said) "everything went just fine." "I liked waking up and hearing that news." [No problem]
E26	Yes	Her mother told her that the surgeon told her everything was fine. The surgeon had asked her beforehand if it was OK to discuss the surgery with her family. "Immediately after the surgery was over" meant as soon as they were able to discuss it.
E27	Yes	When the surgery was completed, the surgeon talked with her husband. The surgeon told her husband that the surgery took X amount of time – everything went well and she is in recovery. She wanted the surgeon to talk with her husband.
E28	Yes	As soon as he was able to talk to someone (the surgeon). The surgeon. I wanted him to discuss it with family. I signed a form saying who he could talk to or not.
E29	Yes	He came out and talked to both my mother and husband. I didn't see him.

		Just as usual. The surgeon usually comes out and says everything is fine.... Surgeon. I absolutely wanted it discussed. I was asleep at the time.
E30	Yes	She said he certainly talked to her afterwards. Told her the outcome, when he would be ready to see. Same day. Within an hour of the surgery.
S04	Yes	"Immediately after your surgery was over" means right after I had the surgery, when the doc walked out of the room . She told them how I was feeling and yes, I wanted her to tell them [No problem]
S05	Yes	The doctor talked to my family right after he finished the surgery. I asked him to do that [No problem]
S14	Yes	It means right after the surgery was done. The surgeon talked to my mom that everything had gone well and how long it would be until I woke up. Yes, I wanted them to talk to my mom so they would know what was going on.
S15	Yes	It means right after the surgery. They told my son it was over and he could see me in a certain amount of time. Explained to him what had been done and what I had to do for my recovery. Yes, I wanted them to talk to my son about it, he's my only son. He should know what is going on.

23. Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery?

¹ Yes

² No → **If No, Go to Question 25**

Goal: Determine if respondent is aware of visit.

Determine if 'outcome of surgery' is interpreted as intended.

Determine how people who did not stay overnight answer this question.

What do you think they mean by "discuss the outcome of your surgery?"

IF YES: Tell me about this visit -- or visits.

IF NO: Did any one from the surgeon's staff visit you to discuss the outcome of your surgery before you left the facility?

Yes --> Tell me about this visit

No --> Why not?

About how long did you stay in the surgical facility?

ID	Survey response	Verbal response
E04	Yes	Oh, I see, I thought they meant immediately after the surgery. "Discuss the outcome" means saying whether or not it went well, what he did, recovery information, what to expect, and when to make he next appointment with him. [Possible problem; I asked her about her first interpretation and she said she just misread it, she didn't have any suggestions for changing the question, she thought it "reads well".]
E14	No	(verbally emphasized "you" when reading the question). (Seemed to have trouble remembering). What do you think they mean...? "How'd the surgery go... did they leave the ovaries... problems with anesthesia." Said that someone from the surgeon's staff did visit her, "I don't remember who it was" (said that they came about 5 or 6 in the evening, told her that they had left her ovaries in, checked to see how she was doing, checked if she was in pain, told her they were able to do it vaginally). Stayed in facility 24 hours. [No problem]
E15	Yes	"The outcome? I'm alive." "Your surgery went well." What do you think they mean...? "I'm not sure what they mean by the outcome... the end result of surgery... did it all go well." When describing the visit, she said that the surgeon said 'everything went well' and told her that if she had pain she should call him. [No problem: she initially got tripped up on 'outcome' but I think she ended up interpreting it fine.]
E16	Yes	"He came back... didn't spend a lot of time but... [told me that] everything

		went fine.” <i>[No problem]</i>
E26	Yes	The surgeon visited her about an hour after the intern and told her what went on in the surgery. He looked at her incision. The respondent had to stay overnight.
E27	Yes	The surgeon told her that things went as expected and they were able to fix the problem. He told her to wear the bandage and reminded her not to shower. He also told her how the pain medication would make her feel. She stayed in the surgery facility about 1 hour 15 minutes after surgery – she was out before noon.
E28	DK	I don't remember leaving the facility. I stayed there for 7 hours, give or take. I don't remember anything.
E29	No	No, he did not. The nurses...they came, but they did not talk to me. They just helped me. I was there for 3 hours.
E30	Yes	He was there the next day. I saw him the next day. I saw him in the evening as well. I saw his physician assistant. I could tell that he was very pleased with my results. I stayed 2 days.
S04	No	I don't remember, so I will answer no [potential problem. Maybe we want to include here one I don't know"] <i>"discuss the outcome of your surgery means talk about how everything worked out during the surgery. I was there for 5 hours</i>
S05	Yes	He explained that it could be some problems, I was tired and he said that the surgery was very successful. [No problem]
S14	Yes	It means that they explain how everything turned out, that it turned out as planned. He came in and told me how everything turned out and told me what to expect.
S15	Yes	It means they explain everything that was done, and he did. He said we've already removed them and you'll be fine, told me how he did it, through my belly button.

24. Did this visit occur in the first 24 hours after your surgery?

¹ Yes

² No

Goal: Determine if heavily sedated patients can answer this question.

IF YES: What happened during this visit?

IF NO: How certain are you that the surgeon did not try to visit you during this period?

ID	Survey response	Verbal response
E04	Yes	He did visit me within 24 hours, but I was still asleep. My family told me that he came in. [When was the visit you discussed in Q23?] I think it was on the second day. [Definite problem]
E14	--	(skipped correctly)
E15	Yes	-- [No problem]
E16	Yes	-- [No problem]
E26	Yes	The surgeon told her what he did, looked at the incision, and told her what to expect when she went home.
E27	Yes	As discussed in the previous question, she was aware of his visit. She had not had pain medication yet and she had woken up from the anesthesia.
E28	Yes	Should I answer this based on what I have been told or what I remember? Based on memory: Yes Others: Yes She doesn't remember having the conversation.
E29	Yes	His PA came by and he popped by as well. First one was the PA, checked over my incision and vital signs and asked if I had questions; my surgeon then followed up and just checked in, asked if I had questions, would ask about pain level. With a transfusion they check your vitals a lot.
E30	Skipped	
S04		Correctly skipped
S05	Yes	It was right after the surgery [No problem]
S14	Yes	The same thing, we talked about the surgery and what to expect afterwards.
S15	Yes	He told me the same things I already mentioned.

ANESTHESIOLOGY

25. Were you given something so you would not feel pain during your surgery?

¹ Yes

² No --> **If No, Go to question 33**

Goal: Determine if anesthesia is interpreted as intended.

IF NO: Were you given anything to put you to sleep during your surgery or not?

Yes --> *And this is different from being given something so you wouldn't feel pain because*

No --> *Why not?*

ID	Survey response	Verbal response
E04	Yes	It was anesthesia. [No problem]
E14	Yes	-- [No problem]
E15	Yes	-- [No problem]
E16	Yes	"I was sound asleep" [No problem]
E26	Yes	"I was put under."
E27	Yes	"He put me to sleep."
E28	Yes	
E29	Yes	
E30	Yes	Hell yes, absolutely, I asked a question or two about it.
S04	yes	Anesthesia [No problem]
S05	Yes	Anesthesia in the serum. I felt asleep right away [No problem]
S14	Yes	I had to have it for the surgery, or I wouldn't do it. I think it also made me calmer.
S15	Yes	They gave me anesthesia.

26. Did an anesthesiologist do this or did this surgeon give you something so you would not feel pain during your surgery?

- ¹ Anesthesiologist did this
- ² Surgeon did this --> **If this surgeon did this, Go to question 33**
- ³ Don't know --> **If Don't know, Go to question 33**

Goal: Determine if respondent is capable of determining who provided anesthesiology

IF ANESTHESIOLOGIST OR SURGEON: How do you know this?

IF DON'T KNOW: If you had to guess, how would you answer this question?

ID	Survey response	Verbal response
E04	Anesthesiologist	He introduced himself and went over my medical history. [No problem]
E14	Anesthesiologist	How do you know? "He identified himself as such." <i>[Possible problem: seemed to get a little tripped up on the wording of the question (but it didn't affect her ability to answer the question)]</i>
E15	Anesthesiologist	She got tripped up on the wording after "Did an anesthesiologist do." How do you know? "They always tell you who they are." <i>[Possible problem: the wording of this question seems to be causing minor issues for people]</i>
E16	Anesthesiologist	"I met him." <i>[No problem]</i>
E26	Anesthesiologist did this	The anesthesiologist was looking for the medical records and spoke with her ahead of time.
E27	Anesthesiologist did this	The anesthesiologist came in and visited her before she went back and told her he would give her something to put her to sleep.
E28	Anesthesiologist	She identified herself as such.
E29	Anesthesiologist	He introduced himself to me in pre-op
E30	Anesthesiologist	In the pre-op visit, you meet an anesthesiologist who said a member of the team would be doing it. They did an epidural. I remember seeing one of them. I told them that they were important because I didn't want pain.
S04	Anesthesiologist did this	The doctor introduce me to him and I talked to him before the surgery [No problem]
S05	Anesthesiologist did this	He showed the medicine that would put me to sleep. [No problem]
S14	Anesthesiologist	Because before the surgery I spoke with him and asked him what would happen and how I'd feel.
S15	Anesthesiologist	Because he placed a mask over my face, they also did an IV.

27. Did this anesthesiologist encourage you to ask questions?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if respondent is using reasonable criteria in deciding whether or not the anesthesiologist encouraged questioning.

Determine how respondents who do not want to ask questions answer this item.

IF DEFINITELY/SOMEWHAT YES: How did the anesthesiologist encourage you? That is, what did the anesthesiologist do or say that showed that he or she wanted you to ask questions?

IF DEFINITELY/SOMEWHAT NO: What did the anesthesiologist do or say that showed that he/she did NOT want you to ask questions?

ID	Survey response	Verbal response
E04	Definitely yes	He asked if I had any questions. [No problem]
E14	Somewhat yes	“He asked me if I had any questions. Is that encourage?” [No problem]
E15	Definitely no	“No. Not a word.” “He didn’t say ‘would you like to know how soon you’re gonna wake up... nothing’.” [No problem]
E16	Definitely yes	“He wanted to know if... I had any questions for him.” [No problem]
E26	Definitely yes	He asked – “do you have any questions?”
E27	Somewhat yes	She could not remember the anesthesiologist clearly asking her if she had questions and did not think he encouraged her to ask questions. But, she didn’t have any questions. So, she gave a ‘somewhat yes’ since she could not remember him saying ‘do you have any questions?’
E28	Definitely No.	She didn’t show anything, but she didn’t ask or encourage me to ask questions. She did answer everything that I would have had a question about.
E29	Somewhat yes	He asked me if I had questions. I wouldn’t say encourage. I didn’t have any.
E30	Somewhat no	Now during the surgery, no, they did not encourage me. In the pre-op visit, when you met with a nurse and you meet the anesthesiologist, you talked to an anesthesiologist, you had the option of asking questions. He probably would have answered them and he didn’t discourage me from asking questions. I want to say somewhat no, because they didn’t actively discourage me. Definite Problem: Met with anesthesiologist before surgery to have a consult, but no real interaction during pre-op. Thus, he had a chance

		to ask questions, but with the way this item is asked, it reflects negatively on the anesthesiologist.
S04	Definitely yes	I did not ask him a lot, but he encouraged me to ask him more questions. I asked 2 or 3 questions, and he asked me whether I had more questions regarding the anesthesia. He was debating whether to answer Definitely yes and Somewhat yes because he did not ask many questions [no problem]
S05	Definitely no	No, the doctor just introduced me to him and he showed me the anesthesia. [No problem]
S14	Somewhat Yes	He told me that if I had any doubts or fears to ask him, he asked if there was anything else I wanted to know. It was good, because one is already nervous so when they ask you if you have questions, it is always good. Somewhat Y vs. Definitely Y: I only wanted to know 1 or 2 things, so we didn't talk too long.
S15	Definitely Y	He kept telling me, if you have any questions let me know, don't worry.

28. Did you ask this anesthesiologist any questions?

¹ Yes

² No --> **If No, Go to question 30**

Goal: Verify that "questions" are being interpreted to mean "medical questions."

IF YES: What did you ask about?

IF NO: Why not?

What do you think they mean by "any questions?" That is, are they only interested in questions about anesthesiology or are they interested in other kinds of questions? IF OTHER: What kinds?

ID	Survey response	Verbal response
E04	No	I didn't care. They had given me the first shot to relax before the anesthesia. I think they would be thinking about questions related to the anesthesia. [No problem]
E14	Yes	(got briefly confused at the end of her thinkaloud and thought that the survey question was about whether the anesthesiologist asked her any questions, but then she reread the question and got back on track.) "I asked him how long the delay would be..." "I didn't ask him anything about anesthesiology." "I also asked him would I be out before I went into the operating room." <i>[Possible problem: she answered yes when she was still thinking that she hadn't asked him anything about anesthesiology; remembered the question about whether she would be out before she went into the operating room after having put her answer down]</i>
E15	No	Why not? "You don't know them, they just kinda come out of left field." What do you think they mean by "any questions"? Participant answered that she thought they mean only questions relating to anesthesiology. <i>[No problem]</i>
E16	Yes	(about which vein to use) What do you think they mean by 'any questions'? "It would be OK... they're not being restricted to... anesthesia... it could be open-ended." <i>[Possible problem: 'any questions' is being interpreted too freely (although in his verbal response the question he asked the anesthesiologist was a medical question)]</i>
E26	Yes	She asked what would happen if he could not get the tube down her throat. She thought that the question was interested in question about anesthesiology only. (If she had other medical questions, she could ask him, but she would expect him to ask someone else.)
E27	Yes	At first she said she couldn't remember asking the anesthesiologist anything specific. She commented that she had a hard time waking up from sedation and the anesthesiologist addressed her concern. Although technically her comment was not a question, she felt that the anesthesiologist responded appropriately so she answered 'yes' to this question. She felt that the question was asking about questions related to

		anesthesiology.
E28	Yes	Is this about the surgery or anything. The questions had nothing to do with surgery. PROBLEM. I don't know "questions."
E29	No	I don't think so. Qs: If you have concerns about anesthesiology. I was originally concerned about in "twilight" I didn't know what they meant by that. I asked questions from others.
E30	No	Hard to remember. If I did it was off the cuff, kind of jokingly. Does that count? Like about the tape. Potential Problem. Participant cannot remember what happened.
S04	Yes	I asked him whether I was going to be totally asleep. <i>"Any questions" is any question regarding the anesthesia. [No problem]</i>
S05	Yes	I asked him how he was going to give me the anesthesia [No problem]
S14	Yes	I asked him how long I would be under the anesthesia. "Any questions" means that you ask anything that has to do with anesthesia, that's what he'll be doing so he knows the most about it. He's the person to ask.
S15	Yes	I asked him if the anesthesia was too strong, I told him I'd had problems before and he took my blood pressure and he used something that wouldn't cause me problems. "Any questions" refers to any type of questions about my health not just the surgery,

29. Did this anesthesiologist answer your questions clearly?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is appropriate.

How come you said [RESPONSE] instead of [RESPONSE_{±1}]?

ID	Survey response	Verbal response
E04	Definitely yes	[Missed skip pattern] I don't recall asking any questions. I can't answer this; I guess I would just write in "don't know" or "NA" instead of just leaving it blank.
E14	Definitely yes	"What few questions I had, yes, he definitely did." [No problem]
E15	--	<i>[Possible problem: at first, respondent didn't skip this one, but I think it was a combination of my breaking her flow with the probe questions and the fact that the prior question (the one with the skip instructions) is at the bottom of the prior page, so she couldn't see it anymore. I don't know if it's a big enough problem, but maybe we could avoid placing questions with skip instructions at the bottom of a page]</i>
E16	Yes	"He was fine." [No problem]
E26	Definitely yes	The anesthesiologist told her exactly what he would do if there was a problem getting the tube down her throat.
E27	Definitely yes	He told her how long she would be out and confirmed that she would not feel anything during the surgery.
E28	Definitely yes	She answered all the questions and I understood them.
E29	Skipped	
E30	Skipped	
S04	Definitely yes	I asked him few questions, but he answered them fast and clear. I already knew what the surgery was about. [No problem]
S05	Definitely no	I did not ask him questions, only one. In Q28 you are asking me if I asked questions and I said Yes, here you are asking me if I had asked more questions and if he answered the questions clearly. [Potential problem...]
S14	Definitely Yes	Definitely Y vs. Somewhat Y: Because he answered me right away and he gave me a straight answer which turned out to be right. There was nothing wrong with his response.
S15	Definitely Yes	Definitely Y vs. Somewhat Y: because I ask questions and he answered them all very well, not confusing at all.

30. After you arrived at the hospital or surgical facility, did this anesthesiologist visit you before your surgery?

¹ Yes

² No → **If No, Go to Question 32**

Goal: Confirm that respondent is not reporting other visits with the anesthesiologist.

IF YES: Tell me about this visit.

Where did it happen?

About how long was it?

What did the anesthesiologist say or do?

IF NO: Did you ever see this anesthesiologist before your surgery or not?

IF NO: Did you see anyone about anesthesia before your surgery?

ID	Survey response	Verbal response
E04	Yes	It was a short visit. He asked me questions and talked more about the medicine. [No problem]
E14	Yes	10-15 minutes max, in pre-op. He told her what drugs they were going to use, apologized for being so late, noticed the red-alert bracelet and asked her what she was allergic to. [No problem]
E15	Yes	(Verbally emphasized “before your surgery” when reading) After reading the question, she said “Well yeah, because they put you to sleep... that’s not a clear question.” [Possible problem: it’s not clear whether this question is intended to exclude the “visit” where the anesthesiologist administers the anesthesia]
E16	Yes	“I was on the gurney ready to go.” “moments before he did what he was gonna do” [Possible problem: if this question is supposed to exclude the visit where the anesthesiologist administers the anesthesia, then it is being interpreted incorrectly by this respondent (and others)]
E26	Yes	As discussed previously, the anesthesiologist visited her in pre-op to discuss her missing medical records.
E27	Yes	As discussed previously, the anesthesiologist came in before surgery and told her that she would be put under. It was a quick visit – just about 3 minutes.
E28	Yes	Yes, but it was the only time I met her. She introduced herself, told me how long she had been doing it, her credentials, what she would do and what I would feel. In the operating room. Length: 10 minutes.
E29	Yes	In pre-op. It took 2 minutes. Just said...he came over and introduced himself and said what he would do, and that I won’t have any effects.
E30	Yes	This particular person?? No, it was part of the same team. You speak to someone on the team, not necessarily <i>the</i> anesthesiologist. They go

		<p>through a bunch of things. I only saw an anesth during pre-op and when they put in the epidural. Is that a no or a yes? Do they count pre-op? I don't think you talk to an anesth before surgery. Do they mean pre op or immediately before?</p> <p>Potential Problem: Unclear if inserting epidural counts. Not sure what to include.</p>
S04	Yes	That was the first time I saw him, when I was waiting to be in the waiting room.. When I registered for the surgery, he was supposed to be there, but he couldn't
S05	No	I only saw him when I was in the operation room [Potential problem.. I am not sure what we mean with the question, because technically she saw him, but just while she was in the operation room. I think that if she had answer yes here, she should be able to answer next question, but she skipped it because she answered NO]
S14	Yes	He told me what he was going to do, how it would feel, what I should do after also and what to avoid after the surgery. It was short, not to long but it was enough to get the information I needed.
S15	Yes	He came in when I was already on the bed, he came in to talk to me and asked me if I had any questions or any doubts.

31. Did talking with this anesthesiologist during this visit make you feel more calm and relaxed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is working properly.

How calm and relaxed were you before this visit?

And, how calm and relaxed were you after this visit?

IF RESPONSES TO PROBE ARE INCONSISTENT WITH RESPONSE TO ITEM, SAY: I'm a little confused. You said [RESPONSE TO Q.31] -- that the visit made you feel more calm and relaxed. And, you said that before this visit, you felt [RESPONSE TO FIRST PROBE]. And, after this visit, you felt [RESPONSE TO SECOND PROBE]. Can you explain a little more?

ID	Survey response	Verbal response
E04	Somewhat no	"Somewhat no" because it didn't do much to change anything. It didn't do much to help, I was already as calm as I was going to get. [No problem]
E14	Somewhat yes	"I was already pretty relaxed." "His visit didn't make that much difference." <i>[Possible problem: She had originally put Definitely Yes and changed to Somewhat Yes after I probed]</i>
E15	Somewhat no	She wasn't very calm when he showed up, because "I don't like needles." but then he gave her the shot and she felt a little better. "He just said 'I'm gonna do this to you'.... That question sucks." She said it would make more sense if it specified whether it was about another visit other than the one where she gets the anesthesia. <i>[Possible problem: maybe we should specify which visit?]</i>
E16	Definitely yes	"This guy really seemed to know what he was doing." "It did help me feel like this thing is gonna work just fine." <i>[No problem]</i>
E26	Somewhat yes	She said that they didn't have her medical records, but the anesthesiologist seemed confident her could handle any problems. She wasn't a "nervous wreck" before the surgery, but she wasn't "care-free either." The visit made her more relaxed than to begin with because she felt more confident in his abilities.
E27	Definitely yes	Although she was not too uptight about the surgery before his visit, the visit from the anesthesiologist made her feel more relaxed because she was assured that she was going to be put asleep. She also felt like "things were in control."
E28	NA	Problem: I wasn't nervous so it didn't really have an effect on me. I don't really know how to answer this question.

		Definite Problem: Respondent not nervous before or after.
E29	Somewhat no	Business as usual. He was in a hurry. I trusted him. It was really the staff made me feel calm and relaxed.
E30	--	If we are counting the epidural as a visit, he was calm, I kept calm. I was a little nervous. How do you define "visit" is doing the anesthesia part of the visit. I didn't get any stressed afterwards; I had an epidural so I didn't feel like anything else. Potential problem: Respondent unable to answer.
S04	Definitely yes	I have always been afraid of surgeries and he made it go away. I looked calm in the outside, but I was very nervous [No problem]
S05		Correctly skipped
S14	Somewhat Yes	I was not very calm or relaxed before the visit, after the visit I was a little more calm and it helped me to talk to him.
S15	Somewhat Yes	I am almost always very calm and relaxed, I've had other surgeries so I wasn't that scared. After the visit, I was just as calm as before. A little worried, there's always a little fear when it comes to surgeries.

32. Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?

- 0 Worst anesthesiologist possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best anesthesiologist possible

Goal: Determine if scale is appropriate and that respondent is using reasonable criteria for making a judgment.

How did you figure this out? What were you thinking about?

IF NOT '3': What would an anesthesiologist that is rated "3" be like?

IF NOT '7': How about a "7?" What would an anesthesiologist like this do or say?

ID	Survey response	Verbal response
E04	10	Because I was still alive. Waking up is the best possible outcome. My problem with taking so long to wake wasn't because of the anesthesiologist, it was because of some sleeping pills the doctor prescribed that took too long to kick in. I don't think a 9 would be much different. A 3 would be where there were problems with the anesthesia and waking up, a 0 would be your dead. A 7 would be maybe if there were side effects related to the anesthesia. [Possible problem, rating seems dependent on patient's reaction to anesthesia...]
E14	10	"I had no problems with the anesthesia or coming out of it, so I'm gonna give him a 10." What would a 3 be like? "One that failed to tell you what he was going to do... somewhat impersonal... never touched you... might have failed to ask about my asthma..." 7? "Maybe someone who left a big fat bruise on my arm... somewhat personal but didn't necessarily act like I was somebody but a number." [No problem]
E15	10	"If I come back to life I'm happy." "I don't know how you even rank 'em." "That question is ridiculous." "I don't think you can quantify good and bad

		with an anesthesiologist.” [Possible problem: she and at least one other respondent had a negative reaction to the 0-10 rating system]
E16	8	“I’m not gonna give him a 10 because...” (of the vein problem – the anesthesiologist used the vein that the respondent had asked him not to use.) What would a 3 be like? “he’s not good... nasty... rude... I’m sure glad I didn’t have to meet that person [right before surgery].” [No problem]
E26	9 and 10	The respondent marked both 9 and 10. She noted that he was patient with her and allowed her to ask questions. He didn’t blow off the fact that the medical records were not there. A ‘3’ would not be personable and would be short and curt. A ‘7’ would take more time than a ‘3’ and would have more bedside manner, but would not go “over and beyond.”
E27	9	After reading the question, the respondent said “that’s a question I’ve never thought of before.” She gave a 9 because of his bedside manner, he told her what to expect, he was truthful, and there were no adverse consequences. She had never thought to compare anesthesiologist before. A ‘3’ would be “a waking up during surgery kind of situation or worse.” A ‘7’ would be not coming in beforehand, but explaining things once I got into the surgery room.
E28	8	I don’t know really how to rate. I haven’t had a bad one and I haven’t had the best. 3-I would guess pretty bad, but I don’t know what bad is. 7-Probably are talking about skill or approach with patients or knowledge of medication. I don’t know what that refers to. Potential Problem: Respondent has a hard time answering this question.
E29	10	You get so few minutes with him, but I guess a 10. The anesthesiology was the most amazing part of it. He really knew what he was doing. 7-problems with anesthesiology experience, or he didn’t answer your questions. Didn’t respond to concerns. 3-Better not be in business!! I guess you can look at it in 2 ways; how the drugs worked and in terms of mannerisms.
E30	9	These things are tough for me, I have been trained that a 10 doesn’t give them the impetus to improve. I tend to give 9. Then again, some feel horrible if they don’t get a 10. Some anesthesiologists are dry—they don’t chit chat; I was fine with dry; I want the anesthesiologist focused. 3-someone that pops in, barely says hello, doesn’t say anything and is out the door. Not personal enough. 0-1—painful
S04	9	He did not keep me awake for a long time, so I guess that is good. I would give a 3 to a doctor who does not answer the questions and a 7 .. I don’t know who I would give a 7 to. [Potential problem with scale]
S05	10	There are some extra spaces in the question in the Spanish version/ I only saw him for a very short period of time before the surgery. I felt asleep right away and did not wake up, so I give him a 10. I would have given him a: 3 if someone else have told me he was a bad doctor 7 if we has a good anesthesiologist but rude 1 if he was rude and despot.

		[Potential problem: not sure about the scale]
S14	9	He did well, I'm not sure what his entire role is, but I think he did it. He did his job well. He gave me the anesthesia and I didn't have any problems. [someone rated a 3]: That would be if I woke up during surgery or if I felt pain during the surgery. Someone who didn't do it right. [someone rated a 7]: He wouldn't be very bad, but maybe the anesthesia doesn't wear off in the time it's expected.
S15	10	Thought of how I was treated, he treated me well I didn't have any problems. [rated a 3]: that is very low, maybe the anesthesia wasn't done well, I don't know. But some problems happened.

AFTER YOUR SURGERY

33. Did this surgeon or this surgeon's staff explain what to expect during your recovery period?

- ¹ Definitely yes
 ² Somewhat yes
 ³ Somewhat no
 ⁴ Definitely no

Goal: Determine if "explain what to expect during your recovery period" is consistently interpreted and if it is interpreted similarly to "how well prepared were you."

How did the surgeon or her/his staff explain what to expect to you?

How well did this help you prepare for your recovery?

ID	Survey response	Verbal response
E04	Definitely yes	The staff came through and went over the surgical exit slip that had call numbers and what to do if there were any problems. I felt prepared, I knew what to expect and what to do and what not to do; that's very important. [No problem]
E14	Somewhat yes	(didn't read the "After Your Surgery" heading) "That's a toughie because there's so many variables." There were things they did not expect so they didn't explain them. They told her not to do any heavy lifting but they didn't tell her how to cope with the added pain that heavy emotional stress could bring, etc. because she and her husband had to file for bankruptcy. [No problem]
E15	Somewhat yes	"Yes but not necessarily." "That question doesn't say whether it's after your surgery... when?... when I woke up?..." How did the surgeon explain...? "They give you the piece of paper... I don't like those papers." How well did this help you prepare? "You could throw it away. They all say the same thing." [Possible problem: this respondent must have totally missed the heading that says "After Your Surgery" – maybe it needs to be embedded in the question as well?]
E16	Definitely yes	"We went over that in great detail... how to take care of things." How well did this help you prepare? "It helped a lot." (said that he and his wife needed to get their house arranged so he could get down the halls with his crutches). [No problem]
E26	Somewhat yes	Because she had this type of surgery before, she knew what to expect during the recovery period. But since different things change over time, the discussed the need to lay flat and other instructions. Both the nursing staff and the surgeon discussed the instructions for the recovery period. The information helped quite a bit because she knew

		to expect the headache, how to prevent being in constant pain, and knew how to use the pump for pain medication.
E27	Definitely yes	The surgeon told her that she was going to feel pain after the anesthesia wears off and reminded her to keep it elevated. This was explained during the pre-surgery visit and after surgery.
E28	Definitely yes	They had a list. They spent a lot of time about what to expect. The surgeon and a nurse consultant. This prepared me very well.
E29	Definitely Yes	In the office visit before the surgery he explained a little bit about the recovery period, basically a couple of days. They had given me a post op sheet from the hospital as well. I got one from the hospital, and also one that was very general. I had the form with me. The surgeon though...didn't really, he explained to me through the standard sheet, but he explained. Excellent—prepared me very well.
E30	Somewhat yes	There was a sheet that came out from the hospital staff, about what you can see. When the surgeon came by, he discussed the catheter. I had a follow-up call to their answering service. I thought they did a pretty good job, but they could have thrown in a tidbit more of information. The hospital information was good. How well...: I had been told a bunch of things so I thought I would be prepared. I think they could have added more information. Potential Problem: R asks, “by surgeon's staff—that doesn't include hospital staff?” Need item clarification.
S04	Definitely yes	They told me what I needed to do, eat, drink and exercise. [No problem]
S05	Definitely yes	The doctor told me I need to pass some time before I recover and see the surgery results. “Que debía esperar” is interpreted as cuanto tiempo debía esperar. I would reword this [Potential problem] <i>How well did this help you prepare for your recovery?</i> <i>It made me feel safe that the doctor told me that there is was a chance I had to stay longer in the hospital. The recovery took about one hour [Potential problem]</i>
S14	Definitely Yes	He told me what could happen during the anesthesia and after, that there could be some vomiting, a headache, or that I'd have trouble moving. It helped me, it was very good because when I woke up from the anesthesia after the surgery, you usually wake up disoriented. But he told me all this so I knew what to expect.
S15	Definitely Yes	He talked to me about my diet, the time I'd have to watch my diet. Not to eat too much fat. Helped me realize I still had to do something.

34. Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery period?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if scale is appropriate (that is, should it be dichotomous?)
 Determine how "warn you" is interpreted.
 Determine how "recovery period" is interpreted.*

What do you think they mean by "recovery period?" That is, when did your recovery period begin?

And, when did it end? Or is still going on? Why do you feel this way?

IF NOT "DEFINITELY NO": How did they warn you about these signs or symptoms?

Would giving you some materials that listed warning signs or symptoms be the same as warning you about any signs or symptoms that require immediate care? Or would they have to spend some time talking about it with you? Why?

IF SOMEWHAT YES, ASK DEFINITELY YES

IF SOMEWHAT NO, ASK DEFINITELY NO

IF DEFINITELY YES, ASK SOMEWHAT YES

IF DEFINITELY NO, ASK SOMEWHAT NO

Why did you pick [RESPONSE] instead of [ALTERNATE RESPONSE]?

ID	Survey response	Verbal response
E04	Definitely yes	He talked about the scar and that it could leak, or what to do if there were specific types of pain. "Recovery period" means the time after going home and before the next office visit. Yes, they did give me materials about hospital numbers and pages of what to expect. [No problem]
E14	Somewhat yes	What do you think they mean by 'recovery period'? "The initial period after your procedure that your doctor defines" (for her, 6-8 weeks). "My initial recovery period, probably instead of 8 weeks, took 10 weeks." (but then it was at least 3 months before she wasn't thinking about the surgery all the time). Would giving some materials...? "Kaiser assumes that you're going to read all the papers." <i>[No problem, and maybe this item should be left as is (not dichotomous) to allow for people like this who feel that they received information but it wasn't presented to them in the way they wanted?]</i>
E15	Definitely no	(Respondent mistakenly read "any" as "the"). She repeated "immediate medical attention" and then said "to me that means I'm gonna die." What do you think they mean by recovery period? "Starts

		the second you walk out the door” (between then and when you have your first office visit). When did it end? “Probably about my second office visit.... I don’t consider myself still in recovery, although it still swells up.” Would giving you some materials... be the same as warning you? No! “When they talk to you you can ask questions.” (She felt very strongly that written materials is NOT the same thing!) <i>[Possible problem: maybe we need to specify written/verbal warnings]</i>
E16	Definitely yes	What do you think they mean by ‘recovery period’? “Different stages... you go home... recovering from the anesthesia... pain medication....” How did they warn you? They told him. Would giving some materials be the same? Yes. Why did you pick Definitely Yes instead of Somewhat Yes? “I just remember them being pretty emphatic.” <i>[No problem]</i>
E26	Definitely yes	Recovery began right after surgery and lasted until she was released from the surgeon’s care (about 3 months after surgery). She discussed signs and symptoms as bleeding, oozing, and other signs of infection.
E27	Definitely yes	Signs and symptoms discussed were bleeding and if there was pain even after the pain medications. The office also called to check on her. She had received hand-written information as well as verbal information about what to expect during the recovery period and felt that both were necessary. She felt that the recovery period was the first 7 to 10 days – after surgery until they removed the stitches.
E28	Definitely yes	Immediately after surgery, healing up, sutures healing. I am still in recovery—it takes about a year. Verbal and written are the same, IF written is as good as someone tells you.
E29	Definitely no	Hospital staff did. They gave me a couple of sheets. He did not at all. One related to the specific surgery, one sheet on care from the hospital. The nurses provided this information.
E30	Definitely yes	Yes, more of a sheet you get for discharge, the nurse went through it. If you have high fever, redness or swelling. Well, I don’t know all the things that could happen. But this showed all the key or major things that could happen. I think it is key to know.
S04	Definitely yes	They told me about what I need to do so I did not have to come back to the emergency room. It is definitely yes, because I did not have any question after talking to them [No problem] <i>"recovery period" is the time the body takes to be normal again, in my case started right after the surgery y ended two weeks after it.</i>
S05	Definitely yes	She had to read the question again. .Maybe the question is too long? <i>recovery period" is when the nurse is looking at your vital signs and the reaction of the medicine. Recovery time started when the surgery was over and it ended when the doctor discharged me)2 hours later)</i> <i>[Potential problem, there are different ways how to interpret recovery time]</i>
S14	Definitely Yes	This means the time that your body needs to get over the surgery, the first part your body needs like the first 24 hours. It begins immediately after the surgery and lasts 24 hours.

S15	Definitely Yes	This means the time you need to recover from the operation. Recovery time begins after the first 3 days after the surgery. I don't know when it ended, but I think it already has.
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35. Did this surgeon or this surgeon's staff give you easy to understand instructions about what to do during your recovery period?

- ¹ Definitely yes
² Somewhat yes
³ Somewhat no
⁴ Definitely no

Goal: Determine whether instructions are being interpreted consistently (oral, written, or either.)

IF NOT DEFINITELY NO: Tell me about these instructions.

Do you think they're asking about verbal instructions, written instructions, both, or something else? Why?

ID	Survey response	Verbal response
E04	Definitely yes	I think they are talking about both oral and written instructions. The verbal might give some extra information to the written stuff. [No problem]
E14	Somewhat yes	(got tripped up after “give you” and started over). No driving, go home and rest, showering instructions, absolutely no lifting anything over 5 pounds. Do you think they’re asking about verbal/written? “it sounds to me like it’ verbal.... It needs to specify... people don’t seem to read anymore.” <i>[Possible problem: participant got tripped up when reading question, maybe we could put hyphens in between the words ‘easy to understand’ so that it’s ‘easy-to-understand instructions’]</i>
E15	Definitely yes	“boring same ol’ instructions.” Do you think they’re asking about written/verbal/both? “I’m seeing written... automatically, yeah.” <i>[Possible problem: maybe we should specify written/verbal]</i>
E16	Definitely yes	(Respondent read the question twice). “[He] told me what to expect, and what to do and what not to do.” Do you think they’re asking about verbal/written? Both. <i>[Possible problem: verbal vs. written isn’t being interpreted consistently across respondents]</i>
E26	Definitely yes	The hospital gave me a sheet for instructions for the wound and the surgeon told me what to expect. She thought they were asking about both verbal and written instructions “‘cause I got both”.
E27	Definitely yes	The respondent commented that she got hand-written as well as verbal instructions. Potential problem: She noted that she felt questions 34 and 35 were close to the same.
E28	Definitely yes	Both.
E29	Definitely yes	Absolutely—go rest, take the dressing off, sits bath, etc. instructions were very easy—2 bathes a day. Take oxycodone. Written and verbal.
E30	Definitely yes	Avoid lifting for a month, keep catheter in for so long, medicine. Asking about both written and verbal.
S04	Definitely	They gave me oral and written information

	yes	
S05	Definitely yes	His staff told me how should I take care of myself, how to take the medicine. This happens for when I leave the hospital and 34 is in the hospital. [Potential problem?]
S14	Definitely Yes	He told me what to expect and it was good. He gave me the instructions verbally and written, and I like that. All surgeons should give their patients both ways because when they are written you can always look back especially if something happens and you want to know if it's serious.
S15	Definitely Yes	I think it means written instructions, but when they do that they usually also tell you verbally. I prefer to be told in person, it makes me feel better and I like that he takes the time to explain it to me and that way I can ask questions myself.

36. Did this surgeon make sure you were physically comfortable or had enough pain relief after you left the facility where you had your surgery?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if question is being interpreted as asking about adequacy of pain management post-release.

What do you think this question is asking, in your own words?

How did you figure out your answer to this question?

ID	Survey response	Verbal response
E04	Definitely yes	I think the question is asking “did the surgeon give you enough pain medicine?” He gave me more than enough, I was surprised at how much he was prescribing, he gave me everything, so many different types of things [No problem].
E14	Somewhat yes	In your own words: “How did he handle pain relief after you left, after your surgery.” How did you figure out answer? “The pain med they gave me worked really well but it really constipated me... adds to the pain.” [No problem]
E15	Somewhat no	(Respondent repeated “make sure you were physically comfortable”) “Not that he doesn’t respond when you tell him but...” (she told him) What do you think this question is asking, in your own words? “Whether or not he prescribed pain medication.” [No problem]
E16	Definitely yes	“Upon leaving the hospital... [they wanted to make sure] I was not going to be immediately put in a position where I would be in pain.” “He said ‘please don’t wait until it hurts to take your pain medication’.” [No problem]
E26	Definitely yes	“The surgeon wrote me a prescription before I left the hospital.” She re-worded the question as “make sure I wasn’t going to be in pain when I got home – write a prescription.”
E27	Definitely yes	“I remember that I had a shot for pain after surgery and then before I left they asked if I would like another shot.” They wanted to make sure I was comfortable before I got my prescription filled. The surgeon did not administer those injections, but she answered that the surgeon made sure she was physically comfortable because she assumed the staff were following his instructions.
E28	Definitely yes	Based on what I arrived home with and what I was given before I left. Q=Did you have enough drugs for pain.
E29	Definitely no	But that isn’t a bad thing (Problem) If I was not comfortable, the staff would have let him know.

		<p>He may have made sure with the staff, but I don't know.</p> <p>This question is asking about post op care—but that is the staff who does that, not the surgeon.</p> <p>Potential problem: Unclear if response does represent poor care or not.</p>
E30	Definitely yes	I asked for my prescription before the surgery; they gave it to me the day of. I think it is very key. They constantly asked me my pain level.
S04	Definitely yes	“facility where you had your surgery” is the operation building. They did not let me go out before I was feeling fine well so I could leave. I was thinking about the doctor and her staff when I answer the questions. [No problem]
S05	Definitely yes	In the Spanish version I would add an /a after comodo She first answered the question think about what happened at the hospital. Then because I probed, she changed her mind and changed her answer as if we asked for after she leaves the hospital; [Potential problem. “Las instalaciones de la cirugia” is confusing, it would be the surgery room or the hospital]
S14	Definitely Yes	This asks if the surgeon made sure I knew how much pain to expect and how to deal with it, gives you medication to take. “Facility where you had your surgery” means the surgery took place.
S15	Definitely Yes	It asks me if I knew what to take for pain when I left the hospital. Facility where you had your surgery” is where the surgery took place, the hospital.

37. After your surgery, did you phone this surgeon’s office with a medical question?

¹ Yes

² No → **If No, Go to Question 39**

Goal: Determine if respondent contacted the surgeon's office with questions in any other way.

IF NO: Did you have any medical questions after your surgery?

IF YES: How did you try to get these questions answered? Or, did you try at all?

ID	Survey response	Verbal response
E04	No	No, I didn't have any questions. [No problem]
E14	Yes	(bleeding scare – she was bleeding heavily and called to ask about it) [No problem]
E15	No	(Didn't have any questions) [No problem]
E16	No	“Everything was fine.” [No problem]
E26	No	She did not have any medical questions after surgery.
E27	No	She did not have any medical questions after surgery.
E28	Yes	I phoned the doctor on call.
E29	No	I had no questions.
E30	Yes	This is an excellent question. I had a little concern about blood in the urine. I called and left a message; they did not call me back.
S04	No	I did not have any question [No problem]
S05	No	No, they called me, I did not call them [No problem]
S14	No	No, I had no question. They actually called me, the nurse did, asked how I felt and how I had arrived at home.
S15	No	I didn't call because I had an appointment already scheduled.

38. After your surgery, when you phoned this surgeon's office, did you get an answer to your medical questions as soon as you needed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine how "as soon as you needed" differs from "as soon as you wanted."

Tell me about this. How did you get in touch with the surgeon's office?

What happened?

And, how long did it take to get an answer?

How quick did you need an answer?

In what ways, if any, is getting an answer as soon as you needed different from getting an answer as soon as you wanted?

ID	Survey response	Verbal response
E04	--	Skipped appropriately
E14	Somewhat no	"I didn't actually get to talk to Dr. H or one of his staff." She called the office, but you don't get the surgeon, you get a recording and then you talk to a nurse (that is not affiliated with your doctor), and then if they think it's necessary they contact your surgeon. It took about 20 minutes to get an answer. "When you're bleeding, you want it right now... you're scared." How is need different from want? She told about a heart attack scare she had, and in that situation the paramedics were there immediately. With this, she knew she wasn't dying. <i>[No problem]</i>
E15	--	<i>[Possible problem: respondent almost didn't skip, and this time it wasn't because of me because I didn't probe for the previous question. I think maybe we should consider keeping questions with skip instructions away from the bottom of the page]</i>
E16	--	<i>(Skipped correctly)</i>
E26	<i>Skipped</i>	
E27	<i>Skipped</i>	
E28	Definitely yes	I had started bleeding from one of the sutures. It looked like it was coming apart. It took 30 minutes. I wanted an answer within 2 minutes. It depends—all wants become a need; if a want is severe enough, it already is a need.
E29	<i>Skipped</i>	
E30	Definitely no	Because they never called me back! It got better. It was an oversight. They should have called back. They could have easily called back. It was a quick answer.
S04		Skipped it correctly

S05		Skipped it correctly
S14	Somewhat No	Missed skip pattern. I didn't ask call to ask any questions.
S15	Skipped	Skipped correctly

39. After your surgery, did you visit this surgeon at the surgeon's office, or talk with this surgeon?

¹ Yes

² No --> **If No, Go to Question 44**

Goal: Determine if people who responded affirmatively to question 37 are confused. Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

IF YES TO Q.37: In what ways, if any, is this question different from question 37? Or are they the same? Why?

ID	Survey response	Verbal response
E04	Yes	[No problem]
E14	Yes	He called her to ask how she was doing, and she also saw him at the post-op appointment. <i>[No problem: didn't get confused by similarity to question 37; treated them differently and referred to different interactions with her surgeon]</i>
E15	Yes	(post-op visit). How is this different from #37? "Did you get up and drive over and go see them.... The other one is I'm phoning from home." "This [survey] doesn't ask whether the surgeon is calling me." <i>[Definite problem: this question really tripped up the respondent. She just kind of seemed like she didn't know what to do with it, because she wasn't sure if it was talking about the post-op visit, and then she repeated "or talk to" and seemed confused with #37 briefly]</i>
E16	Yes	(He went to get his stitches removed). Said that 37 is about phoning and 39 is about visiting. <i>[Possible problem: respondent seems to be ignoring the "or talk with this surgeon" part of this question and treating it as referring to a physical visit only]</i>
E26	Yes	She had a follow-up appointment that same week. She felt that this was a different question from 37 because this one refers to physically being at his office while 37 asks about calling.
E27	Yes	She had the stitches out about 2 weeks after surgery. She felt that there was a difference between question 37 and 39. Q37 was using the phone – you can stay at home. Q39 was physically going to the office.
E28	Yes	I assumed that this question is referring to your post op visit.
E29	Yes	I had two post op visits, one a week after and one in another 2 weeks.
E30	Yes	With this particular one, I had a one week follow-up. They took out some staples. I had 3 layers of stitching and staples. I then went back in 2 weeks, 4 weeks, and 4 months. Q37—phone calling, particularly after hours; 39 is about an office <u>visit</u> . They kind of overlap. I would assume that 39 is related to a scheduled visit; 37 is anytime.
S04	Yes	I visited her [No problem]
S05	No	The question in Spanish has the word cirujano 3 times in it. Can we change the wording there? [Potential problem]
S14	Yes	Yes, I went to visit him 3 days after the surgery. Yes, it is different from

		#37, that one asks if you called to ask a question not if you went to visit him.
S15	Yes	I had an appointment to go see him. This is different from #37, that asks if you called.

40. After your surgery, did this surgeon listen carefully to you?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if this scale is working properly.

Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

Why did you pick [RESPONSE] instead of [RESPONSE_{±1}]?

COMPARE WITH RESPONSE TO QUESTION 12. Do you think there was a difference in how carefully the surgeon listened to you after the surgery, compared to how carefully the surgeon listened before the surgery, or not?

IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS, PROBE: I'm a little confused Could you explain a little more?

ID	Survey response	Verbal response
E04	Definitely yes	"Definitely" because he was totally interested in how I was feeling, he asked about my pain on a scale. He wanted to know that he did a good job. I think after the surgery he may have listened even more carefully because he needed more information to guide recovery. But I wouldn't lower my rating from earlier. [No problem]
E14	Definitely yes	When he called me on Saturday... and Monday... he was listening." No inconsistency with #12. [No problem]
E15	Definitely yes	"I didn't have much to say." Why did you pick Definitely Yes instead of Somewhat Yes? "It's a character trait with this doctor to be very attentive." No inconsistency with #12. [No problem]
E16	Definitely yes	Why did you pick Definitely Yes instead of Somewhat Yes? "Because... he asked me a lot of questions... he really was listening." No inconsistency with #12. [No problem]
E26	Somewhat yes	Respondent read question aloud as "...listen to you carefully?" She chose 'somewhat yes' instead of 'definitely yes' because the nature of the visit was different. It wasn't a question / answer type situation. It was more of a conversation about how she was doing. She did not feel that there was a difference in how carefully the surgeon listened to her before and after surgery (although she chose 'definitely yes' for question 12), but because the nature of the visit was different she chose a different answer.
E27	Definitely yes	They talked about taking out the stitches, the scar was looking good, and that the area felt hard. The surgeon told her that she should massage the scar tissue. He listened carefully to her concern and reminded her not to

		<p>type.</p> <p>There was no difference in his listening before and after surgery – her answers were consistent.</p>
E28	Definitely yes	There is no doubt in my mind that he is a very good listener. No difference before surgery and after.
E29	Definitely yes	He asked: How are things going? Any concerns? He was very consistent in his care between pre and post care.
E30	Somewhat yes	Not a whole lot of time to ask him questions. He checked everything over. Not that he didn't listen, but he focused on my symptoms, and success regarding surgical procedure.
S04	Definitely yes	No, I think it was the same [No problem]
S05		Skipped it correctly
S14	Definitely Yes	Definitely Y vs. Somewhat Y: He always listened to me after the surgery when I had questions and I wanted to know if I had to keep taking the pain medicine. No difference in how he listened before or after the surgery, he listened all the time.
S15	Definitely Yes	Definitely Y vs. Somewhat Y: Because when I asked him he always answered me and made sure I understood. I think they explain more to you before the surgery than after, there's not a lot to explain afterwards. After surgery you just go over everything that happened.

41. After your surgery, did this surgeon spend enough time with you?

- 1 Definitely yes
 2 Somewhat yes
 3 Somewhat no
 4 Definitely no

Goal: Determine if this scale is working properly.

How did you decide on your answer?

ID	Survey response	Verbal response
E04	Definitely yes	After he spent more time with me than before to go over everything; he needed more information about the results. [No problem]
E14	Somewhat yes	“When I went to see him for my post-op visit, that’s when I broke down crying” (the surgeon didn’t really know how to handle this and cut the visit a bit short) [No problem]
E15	Definitely yes	“‘After,’ I don’t have any idea what that means.” “I don’t like the question.” How did you decide on your answer? “Because I didn’t need any more time with him.” [Possible problem: maybe we need to specify what time period ‘after your surgery’ is referring to]
E16	Definitely yes	“He always told me that at any time if I need to see him, just to call.” [No problem]
E26	Definitely yes	The surgeon did not rush through the visit and asked the right questions about how she was doing.
E27	Definitely yes	She felt that he spent enough time. He asked all the questions he needed to and did not rush her. He removed the stitches and asked if she had other questions.
E28	Definitely yes	Well once again, I assume at the post op visit. He spent enough time, answered all my questions. He could tell me everything that he needed to tell me.
E29	Definitely yes	He greeted, did the exam, and we talked. He asked about healing and I had questions about that. I felt very confident after the second exam, said everything was healing beautifully.
E30	Somewhat yes	I think there could be to check the main things, and decide that it was fine; I could have asked more questions. I had a few more. I have asked my questions over the course of 4 follow up visits.
S04	Somewhat no	I think no, because it was a short appointment, it was even less than 20 minutes. It was only one appointment where she asked me how I was doing. I would have said Definite no if she had not asked me any question about how I was feeling. I would have said “un poco si” if the appointment would have been for over one hour. [No problem?]
S05		Skipped it correctly
S14	Definitely Yes	Yes, I had to visit him after the surgery and each time he spent enough time.
S15	Definitely Yes	Yes because he spent enough time to answer my questions.

42. After your surgery, did this surgeon encourage you to ask questions?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is appropriate.

Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

How did you come up with your answer?

COMPARE WITH RESPONSE TO QUESTION 14. Do you think there was a difference in how the surgeon encouraged you to ask questions after the surgery, compared to before the surgery, or not?

IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS, PROBE: I'm a little confused Could you explain a little more?

ID	Survey response	Verbal response
E04	Definitely yes	He specifically asked questions, same demeanor as before the surgery. [No problem]
E14	Somewhat yes	There was something the surgeon and the nurse were talking about regarding her uterus that she missed and regrets not clarifying. "I was so stressed out because of everything that was happening" (personal/emotional things). Do you think there was a difference before vs. after the surgery? "In this case there was, but it was because of my perceptions... not his fault..." (Answer to 14 and 42 both Somewhat Yes but said there was a difference in before vs. after, but when I probed was when she clarified that it was because of <i>her</i> issues) <i>[Possible problem: initially there was inconsistency but when I talked to her about the possibility of putting the two questions closer together or something, she said it made more sense for them to be chronological like they are.]</i>
E15	Somewhat yes	"I don't remember him asking me to ask <i>him</i> anything. However, we have a relationship..." No inconsistency with #14 – she had answered Definitely Yes but also said that there was indeed a difference, that after the surgery as opposed to before, encouraging questions was "not their number one priority." <i>[No problem]</i>
E16	Definitely yes	"He... asked questions as to how I was progressing." No inconsistency with #14. <i>[No problem]</i>
E26	Definitely yes	The surgeon encouraged her to ask questions. There was no difference between before and after surgery (consistent with her previous answer to question 14).
E27	Definitely yes	He asked about the site, healing and recovery. There was no

		difference before and after surgery (consistent with her previous answer).
E28		Do they mean immediately after surgery or at a post op visit? Potential Problem: R unclear about the time reference.
E29	Somewhat yes	I always feel like he has an air of openness, and he asked if I have had questions, but doesn't push me.
E30	Somewhat no	Not definitely no. He knows I am going to ask questions. I think they are getting used to it. Tie between somewhat no and somewhat yes. Before the surgery, he did encourage me to talk and ask more questions.
S04	Somewhat yes	I told her I did not have any problem [No problem]
S05		Skipped it correctly
S14	Definitely Yes	Because he often asked if I was feeling well, asked how everything was going and if I was happy with the results, if I had any questions. NO, there were no differences in how he encouraged me to ask questions before and after the surgery. He was always helpful and wanted to know if I had questions.
S15	Definitely Yes	I said yes because he would always ask if I had any questions to go ahead and ask them. There is a different before and after surgery, before you have many more questions, but after, it's not so scary.

43. After your surgery, did this surgeon treat you with courtesy and respect?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if scale is appropriate.

Determine if respondents can distinguish pre-surgical experiences from post-surgical experiences.

How did you come up with your answer?

COMPARE WITH RESPONSE TO QUESTION 15. Do you think there was a difference in how the surgeon treated you with courtesy and respect after the surgery, compared to before the surgery, or not?

IF RATINGS ARE INCONSISTENT WITH RESPONDENT'S STATEMENTS, PROBE: I'm a little confused Could you explain a little more?

ID	Survey response	Verbal response
E04	Definitely yes	He talked to my and my mom, just the same as before the surgery. I even see it in his interactions with other patients. [No problem]
E14	Definitely yes	"We were going to lose our house... he was concerned about us." No inconsistency with #15. [No problem]
E15	Definitely yes	"He spends a huge amount of time... [he doesn't] cut you short." No inconsistency with #15. [No problem]
E16	Definitely yes	"He was wonderful." No inconsistency with #15. [No problem]
E26	Definitely yes	She felt that she would have done the surgery if he had been disrespectful to begin with. But she did not think there was a difference before and after surgery (consistent with her answer to question 15).
E27	Definitely yes	She felt that he treated her with respect and concern. When she was leaving, he told her to let him know if she had any more problems. There was not a difference before and after surgery (consistent with her previous answer).
E28	Definitely yes	Immediately after the surgery or post op visits? Problem Post op—definitely yes—he was consistent with every visit I had.
E29	Definitely yes	He was consistent both times. No difference.
E30	Definitely yes	Again, he came by and visited, he did a visit that he didn't have to do. He popped in just for a minute after a board meeting.
S04	0	He decided not to answer this question. The version in Spanish asked for the "frequency" and he said 'I only went there once, so I am not sure what to answer because the answers don't match the questions' Question 15 was worded in the different way [definite problem: I would suggest to work

		this question as Q 15] NOTE: There was a typo in the Spanish version. The scale was changed, but the stem still asked "How often," causing this problem.
S05		Skipped it correctly
S14	Definitely Yes	Because they were respectful every time, the surgeon and his team. All the time, including the time they removed the stitches. NO difference in how they treated me before and after the surgery. They were wonderful the entire time.
S15	Definitely Yes	Because he always was courteous, every time I saw him. NO difference in treatment before or after the surgery. He was just as courteous.

44. After your surgery, how many times did you visit this surgeon's office?

- ¹ None
- ² 1 Visit
- ³ 2 Visits
- ⁴ 3 Visits
- ⁵ 4 to 6 Visits
- ⁶ 7 or more Visits

*Goal: Determine respondent's ability to estimate the number of post-surgical visits
Determine whether visits for physical therapy or other types of therapy are being counted.*

How did you figure this out?

How sure are you of your answer?

Tell me about these visits. That is, besides the surgeon, what other types of people, if any, were providing health care or health services to you?

ID	Survey response	Verbal response
E04	3 visits	[Originally choose 2, but after talking for a minutes realized it was 3.] The first time was the check, then I had to go back to check in with him a few times about how the physical therapy was going. [No problem]
E14	1	Post-op visit. "I was doing fine." They were supposed to have a 6-week visit but they canceled it because of her finances. [No problem]
E15	2	"One for stitches, and one to take a look at how the healing was going." How sure? "Positive." What other people? "The lady who checks you in." [No problem]
E16	7 or more	Stitches, getting orthotics, (counting on his fingers). How sure are you? "Quite sure." (said he kept a journal). What other types of people were providing health services to you? Surgeon's assistant, the guy that puts the cast on, another assistant that brings you to the place you needed to be. [Possible problem: seems like maybe other types of visits are being counted (like the one with the guy who puts on the cast – I don't know if he also saw the surgeon)]
E26	3 visits	She noted that she had seem him the week after surgery, a month later, and 3 months later. She was 80% sure of her answer because she may have seen him more than 3 times. The surgeon would check the wound, ask about fever and oozing of the incisions. He would ask her how bad her head hurt. His nurse would bring her to the office and then she would see the surgeon.
E27	1 visit	She was hesitant to answer this question because she could not remember if there had been 1 or 2 follow up visits. She knew there had been a visit to remove the stitches and clean the wound, but could not

		remember if there had been another one after that. She consulted her calendar to see if there had been more than one visit. Since she could only see one visit, she marked one.
E28	4-6 visits	3 visits. I counted up in my head. 2 month, 4 month, 6 month f/u visits. Actually it was more; 4-6 because I had to have my tubes taken out. I met with his nurse as well.
E29	2 visits	Stated earlier, one a week after. He is just a surgeon, so I don't see him for anything else. The nurse provided some care and that is about it.
E30	4-6 visits	1 week, 2 week, 5 week, 4 months—thought about each visit. Mainly his nurse, and the phlebotomist, and the receptionist I guess.
S04	1 Visit	The version in Spanish should say “visitó” [No problem with the question]
S05	None	I only saw my general doctor after the surgery, I did not see the surgeon again [No problem]
S14	4 to 6	Well, I had this done in my country, and I had to stay there for a month so that I could make all the appointments. I am very sure, I didn't have more visits than that. I saw the nurse also, especially when I went in to remove the stitches.
S15	1	After the surgery I had to go to his office because I was feeling some pain. very sure of my answer, I didn't go to his office again. I only saw the surgeon and the receptionist, those are the only people in this office.

STAFF AT THIS SURGEON'S OFFICE

45. Were the staff at this surgeon's office as helpful as you thought they should be?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine criteria used to determine if staff are helpful.
Determine if scale is appropriate.
See if anyone is NOT included as staff*

What do you think they mean by "as helpful as you thought they should be?"

Who did you think of when you answered this?

IF NOT MENTIONED: Were you thinking about the receptionist or not? Why (not)?

IF NOT DEFINITELY YES: So, how come you picked [RESPONSE]?

IF DEFINITELY YES: Were they always like this to you or not?

ID	Survey response	Verbal response
E04	Definitely yes	They make sure all that the paperwork is together before the visit and assistant even hugs me when I show up and she asks about my son and family. I was thinking about everyone at his office, they are all the same in their behavior. [No problem]
E14	Somewhat yes	"Not all of them!" "Most of them are " What do you think they mean by "as helpful as you thought they should be?" "It's a perception question... you're asking for their perspective." (different people want different things, some people just want to be left alone once they arrive) Who did you think of? "airhead nurse" (Most of the staff was very helpful, the receptionist was good) <i>[Possible problem: I'm not sure how we are hoping for "as helpful as you thought they should be" to be interpreted, but this respondent makes a good point that that turns it into a perspective question. Maybe this is what we want?]</i>
E15	Somewhat yes	What do you think they mean...? "I don't know what 'should be' means." "I think they should bring me donuts and coffee and flowers..." Who did you think of when you answered? "The LVNs, and the surgical nurses." Were you thinking about receptionist? "Yeah, her too. Although not very much cuz I don't figure she can ever get up from the desk." <i>[Possible problem: is "should be" too vague/subjective? Could we just say</i>

		<i>"Were the staff at this surgeon's office helpful?"</i>
E16	Somewhat yes	<p>"I was so impressed with the doctor that I thought his assistants... weren't quite so enthusiastic about making sure [everything was done right]."</p> <p>"The cast guy was good." What do you think they mean by...? "You have certain expectations... you need to accomplish certain things... move smoothly... limited delays." Were you thinking about the receptionist or not? "No, I had not even thought of the receptionist."</p> <p><i>[Possible problem: didn't include all staff (didn't include receptionist)]</i></p>
E26	Definitely yes	<p>She was thinking of Kim. Kim has always been helpful. She finds out if there is something she doesn't know. Kim is the nurse who works at the satellite office which is close to the respondent's house. At the satellite office, there is no receptionist, just Kim and the surgeon. If she called the surgeon's main office, she would get an automated telephone answering system.</p> <p>"As helpful as you though they should be" meant treating her like an individual and not as a chart.</p> <p>She also said that Kim has always been nice.</p>
E27	Definitely yes	<p>She was thinking of the nurses that helped with the cortisone injections and the pre-surgery visit. She felt that they were very helpful. She did not think of the receptionist at that point. If she had included them in the question, she was change her answer to 'somewhat yes' because they are never overly friendly.</p> <p>Potential problem: Respondent only thought of nurses, not receptionists.</p>
E28	Definitely yes	<p>I am trying to decide what helpful is in this question. I don't know if it relates to just providing information, or walking you into the office when you still have sutures in and assisting you onto the table.</p> <p>Receptionist and the doctor's nurse.</p> <p>They were always like this.</p>
E29	Definitely yes	Nurse and surgery schedule—both were incredibly helpful. Always encouraged me to ask questions.
E30	Definitely yes	Phlebotomist was great. Receptionist—know I wasn't really thinking about her. I considered the core people who touch you.
S04	Definitely yes	I did not have any problem and the surgeon treated me very well. I called the general number of the region of where I had the surgery to ask a question, not specifically the surgery office. They never returned my call and they did not pass this message to the doctor, at least that is what the doctor said, but they are not part of the doctor staff. When I answered this question I was thinking about the staff in the doctors office, which is not the same than the people who works on the surgery room [No problem]
S05	Somewhat yes	It was not a lot of help. There was not much they could do to make me feel better. I was thinking about the nurses in his office, not the receptionist, she cannot really do anything to make me feel better. The nurses gave me the medicine. There were so many nurses at the moment when I was getting the surgery that I am not sure who is who or if they work with the doctor at his office as well. [Potential problem. I think she had problem to identify who we were asking for here]
S14	Definitely	That means that they supported me during my recovery, they were very

	Yes	helpful and answered all my questions. Thinking about the staff and the surgeon.
S15	Definitely Yes	It means they did what they could, they couldn't have done anything more. Thinking about the nurse only, not thinking about the receptionist, they make the appointments. They were always like that, very helpful, made me feel comfortable.

46. Did the staff at this surgeon’s office treat you with courtesy and respect?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine criteria respondents use to determine if staff treat them with courtesy and respect.

See if any staff are not included

What can staff say or do that shows they are treating you with courtesy and respect? What else?

And, who were you thinking of when you answered this?

IF NOT MENTIONED: Were you thinking about the receptionists or not? Why (not)?

ID	Survey response	Verbal response
E04	Definitely yes	They are always as thoughtful as could be, and very attentive. [No problem]
E14	Somewhat yes	What can staff say or do...? “Call you by name” (also mentioned that they could do things like be polite when they put you on the scale and not say that you’re overweight) Who thinking of? This one nurse. Were you thinking about receptionists? “No I was also including the nursing staff...” (the people that weigh you and take your blood pressure) <i>[Possible problem: wasn’t including receptionist]</i>
E15	Definitely yes	“She’s respectful” Who thinking of? “The lady at the desk.” <i>[No problem]</i>
E16	Definitely yes	What can staff do/say? “I think it’s nice when they... express a little friendliness... say hello... ask if you need a little help” (because he was limping). Who thinking of? (receptionists, assistant, everyone else). <i>[No problem]</i>
E26	Definitely yes	She felt that staff can talk to her like a person, not a chart and ask how she is doing and if there are any changes with her family like – being friendly. She was thinking of Kim (who is the nurse at the satellite office).
E27	Definitely yes	She felt that if the surgeon was respectful, the staff would follow suit. She was thinking of nursing staff and did not include the receptionists. If she included the receptionists, she would change her answer to ‘somewhat yes.’ They are not rude, but just “straightforward.”
E28	Definitely yes.	Call you by name, have a pleasant attitude, listen carefully, do more than the average to find an answer. Receptionists.
E29	Definitely yes	I am thinking of the front office—that is the only one no; they needed

		some additional bedside manner—the receptionist. Includes nurse and scheduler in this question; the receptionist was not important enough.
E30	Definitely yes	It kind of goes both ways. Even if I had been grumpy, they would have been nice; in my case everything was positive. They laugh with me. We make jokes.
S04	Definitely yes	They are very nice people. It is clean and the service fast. When I answered this question I was thinking about the people that worked at the doctor's office. [No problem]
S05	Definitely yes	But I did not really talk to them. [Potential problem?]
S14	Definitely Yes	They are kind and greet you, they tell you if there will be a long wait. Thinking about the surgeon and his team. NO, didn't think about the receptionist, but now that I think about it she did her job well. Kept up the doctor's schedule well and made sure my appointments were kept.
S15	Definitely Yes	When I get there they are respectful, happy to see you and not with serious long faces, with a smile. They take you to his office and explain the things they have to do. Was thinking about the surgeon and the nurse.

YOUR OVERALL CARE FROM THIS SURGEON

47. Were you aware of any medical mistakes by this surgeon in your treatment?

¹ Yes

² No → **If No, Go to Question 50**

Goal: Determine if "medical mistakes" is interpreted consistently.

What do you think they mean by "medical mistakes in your treatment?"

What would a big medical mistake be?

What would a small medical mistake be?

So, do you think they are asking about any medical mistake or only big medical mistakes? Or, are they asking something else? Why?

ID	Survey response	Verbal response
E04	No	I think any mistake is a big mistake. There are no small mistakes. I was thinking of a whole range of mistakes when answering. [No problem]
E14	No	What do you think they mean...? "Things that did not go well during the surgery <i>because</i> of the surgeon." Big? Taking out the wrong body part (e.g., wrong breast), leaving a clamp in her aunt for 5 years. Small? "Cutting further than you need to cut, making the scar too big." Do you think they are asking about any or just big? "I don't think it's clear." Then paused and thought, and said "although it does say 'any'" <i>[Possible problem: should we visually emphasize 'any'?]</i>
E15	No	(Respondent read "...Overall Care..." heading this time) What do you think they mean by medical mistakes? "It sounds life-threatening to me." Small medical mistake? If the surgeon used the wrong knife. Do you think this is asking about any or only big? "Life-threatening." <i>[No problem]</i>
E16	No	--
E26	No	"Medical mistakes" meant anything that went wrong during surgery. Examples of a big medical mistake would be cutting off the wrong arm or leg. She said there isn't a small medical mistake. She was going to say allergy to the tape, but then thought that this could result in anaphylactic shock and so that wasn't small either.
E27	No	"It's a scary thought – to me that would be doing the wrong hand or leaving a pin in, not telling me what to expect, or not saying how long not to use my hand after surgery." Examples of a big medical mistake would be not coming out of surgery, working on wrong body part. When asked what would a small mistake be, she said "no mistakes are good", but eventually said a small medical mistake would be not giving her enough pain medicine to make her comfortable. If it was not the right medicine or not the right dosage, that would be a big mistake. She felt that the

		question referred to both big and small mistakes.
E28	No	Mistakes during surgery. Big=even the slightest medical mistake could be a big one. No difference between big and small surgical mistakes
E29	No	I hope not. I don't know that could be a wide range of things; recommending something wrong. Telling you one thing and doing something else. Small=I have no clue maybe saying you didn't have to have a particular procedure. I don't know. Big=operating on the right part.
E30	No	I mean the only thing, I guess he didn't put the quantity for my prescription, but that is nitpicky. This didn't hurt me at all. Small = something that didn't cause a lot of pain, or additional hospital stay/procedure—like not enough staples. Big=not the right pain medications and you are in a lot of pain. Had to go back to the hospital. Ripping a vein.
S04	No	I haven't noticed anything wrong. I hope there are no mistakes [No problem] <i>"medical mistakes in your treatment" Are things that she shouldn't have done during the surgery, or that I have woken up in the middle of the surgery. [Potential problem; The question is asking about the treatments and he answers about the surgery]</i> <i>I think this question is asking about any kind of mistake [No problem]</i>
S05	No	<i>"medical mistakes in your treatment" could be misinformation about the medicine (big mistake) or saying that the medicine has no risks when it actually has. I was thinking about both [No problem]</i>
S14	No	Not sure what that means, maybe it means that it takes one 6 months longer than usual to heal. A large error is something that the surgeon does, like a wrong surgery. Small error is something that maybe someone else on the team makes, forgets to do something like take your blood pressure. This question is asking about both types of errors, because they are both not good.
S15	No	It refers to mistakes that are made during the operation. A big mistake would be that they do it too fast and operate incorrectly, remove the wrong thing. Small mistake is maybe the anesthesia is not ready when the patient is ready or that it is not strong enough. It is asking about both kinds of mistakes, both are bad.

48. Did these mistakes cause any significant problems for your treatment or condition?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

*Goal: Determine if scale is working properly.
Determine how "significant problems" is interpreted.*

Did these mistakes cause ANY problems for your treatment or condition or not?

IF YES: Tell me about them.

Which of these problems, if any, were significant?

ID	Survey response	Verbal response
E04	--	Skipped correctly
E14	--	(skipped correctly)
E15	--	(skipped correctly)
E16	--	(skipped correctly)
E26	<i>Skipped</i>	
E27	<i>Skipped</i>	
E28	Skipped	
E29	Skipped	
E30	<i>Skipped</i>	
S04		Correctly skipped
S05		Correctly skipped
S14	Definitely No	Missed skip pattern. No, there were no problems. Spanish: Significativo means something big, something important. I think it means the same thing, but I'd prefer "significativo" over "importante."
S15	Definitely No	Missed skip pattern. No, there were no problems. Spanish: significativo means important, same thing as important. Prefers significativo.

49. Did this surgeon explain how the mistake happened?

¹ Yes

² No

Goal: Determine if scale is appropriate or if respondents want to make finer distinctions.

IF YES: Tell me more. When did this happen?

What did this surgeon say -- or did another person explain?

How well did you understand the explanation?

IF NO: Why not? That is, why do you think that the surgeon didn't talk to you about this?

ID	Survey response	Verbal response
E04	--	Skipped correctly
E14	--	(skipped correctly)
E15	--	(skipped correctly)
E16	--	(skipped correctly)
E26	<i>Skipped</i>	
E27	<i>Skipped</i>	
E28	skipped	
E29	Skipped	
E30	<i>Skipped</i>	
S04		Correctly skipped
S05		Correctly skipped
S14	No	Missed skip pattern. There was no error.
S15	No	Missed skip pattern. There was no error.

50. Did this surgeon check to be sure you understood everything?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine if respondents are aware of whether and how a surgeon can check for comprehension.

Determine if scale is appropriate.

Check to see if this item disrupts the "flow" of the questionnaire.

What can a surgeon do or say to check to make sure that you understand everything?

IF NOT "SOMEWHAT NO": If someone said "Somewhat no" to this question, what would that mean?

How different would this be from "Somewhat yes?"

IF "SOMEWHAT NO": If someone said "Somewhat yes" to this question, what would that mean?

How different would this be from "Somewhat no?"

ID	Survey response	Verbal response
E04	Definitely yes	[She had to make a phone call, so could not tell if flow was interrupted by this question or her call.] He was encouraging and asked if I understood everything. He wanted to make sure that I followed what he was explaining. [No problem]
E14	Somewhat yes	"I'm assuming you mean before the surgery." (then she changed her mind and answered the question in regards to both before and after) What can a surgeon do/say? Said that he could ask "do you understand what we're doing" or ask if the patient would like to see a diagram, ask if they remember what we talked about, ask questions. Somewhat No would be: "they don't have a very good talking relationship with their surgeon." [No problem]
E15	Definitely yes	What can a surgeon do/say? "ask 'do you understand what I'm doing in the surgery'" (She mentioned that he could ask that several times.) "Can't check unless he's spent a lot of time talking to you." What would Somewhat No mean? The surgeon explained the procedure but didn't ask questions, the patient felt that they didn't have all the answers. Somewhat Yes? Wasn't very caring, didn't ask enough questions, there was something lacking. [No problem]
E16	Definitely yes	"He wanted to make sure I understood everything... treated [my wife]

		very nicely... he would ask <i>her</i> if she had any questions.” What would Somewhat No mean? “Something might have been glossed over.” How would this be different from Somewhat Yes? “The degree of the vagueness of the question that was answered.” <i>[No problem]</i>
E26	Definitely yes	Her surgeon talked to her. He went through it from the beginning to end and answered all her questions. ‘Somewhat no’ means he didn’t answer the questions and did not go in-depth. ‘Somewhat yes’ meant that it was generic – he could be answering like to anyone and not just me.
E27	Definitely yes	She asked, “are they talking before or after surgery?” and then looked to the header reading “your overall care”. She explained what the surgeon did before, during, and after surgery to make sure she understood everything. ‘Somewhat no’ means she would not be sure what to anticipate going in, and not sure what to expect afterwards during recovery. ‘Somewhat yes’ means that you might feel like you still have questions, but you are not comfortable asking the questions because you think it is silly. It’s inside you, but not anything the surgeon did.
E28	Definitely Yes	He explained what he would be doing , what the risks were, and recovery time.
E29	Definitely Yes	He asked me if I had questions, waited for me if I had any answer. He would have asked what I didn’t understand. I feel like it mattered that I understood everything. Somewhat no: maybe they didn’t feel comfortable asking questions, didn’t feel comfortable with the surgeon, maybe the surgeon didn’t care if you didn’t understand everything, getting tired of my questions. He appreciated my desire to know everything and my desire to understand.
E30	Definitely yes	He explained everything. This to me relates to everything regarding the follow up and the surgery. He made sure I had everything I needed.
S04	Definitely yes	Yes, he kept telling me things until I had no more questions. <i>What can a surgeon do or say to check to make sure that you understand everything?. Well, he can explain all the pros and cons, how to take care of yourself from A to Z all what you need to do [No problem]</i>
S05	Definitely yes	He tried, but the problem was the interpreters, that they said something and I interpreted it in a different way. There was a misunderstanding, but it was not the doctor's fault. [Not sure if this is a problem]
S14	Definitely Yes	If someone answered “Somewhat No” then it means he explained the process but not very clearly, didn’t let you know what would be done. If someone answered “Somewhat Yes” it means that the doctor made sure you understood things, making sure everything was explained well.
S15	Definitely Yes	He can ask if you understood him, are you ok with it. If someone answered “Somewhat No” then it means the doctor didn’t always ask if you understood everything.

51. Do you feel this surgeon really cared about you as a person?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine criteria used in determining whether a surgeon really cares about you. Determine if scale is working properly.

What can a surgeon say or do to show that she/he really cares about you as a person? What else?

Do you think a surgeon should care about you as a person or not? Why (not)?

IF NOT "SOMEWHAT YES": If someone said "Somewhat yes" to this question, what would that mean?

How different would this be from "Somewhat no?"

IF "SOMEWHAT YES": If someone said "Somewhat no" to this question, what would that mean?

How different would this be from "Somewhat yes?"

ID	Survey response	Verbal response
E04	Definitely yes	I was thinking maybe somewhat because he's a surgeon and I'm a patient; he cared about me as a medical person. I think they should care about you as a medical person, but not beyond that. Just in the doctor/patient sense. [No problem]
E14	Definitely yes	"You are not just a number." What can a surgeon do/say? She talked about the example of her surgeon, who had pictures of his patients and cards from his patients on his walls. Do you think a surgeon should care? "Absolutely." Somewhat Yes would be: their surgeon had not done quite as good a job of connecting with them. [No problem]
E15	Definitely yes	What can a surgeon do/say? "Ask about your personal life, ask how the surgery's gonna affect you." Do you think a surgeon should care? "I think it's real hard for 'em... you have to fake it." "You gotta go into a surgery calm" What would Somewhat Yes mean? "Not real outgoing, didn't share personal information" Somewhat No? "That's the one you shouldn't have cut on you." [No problem]
E16	Definitely yes	"I saw him at the store... he says 'you should be walking... you can do this! Don't lean on that!' He did it in a nice, friendly, jovial way... that was kind of a nice interaction." Do you think a surgeon should care? "I really appreciate it when they do." What would Somewhat Yes mean? "There'd

		probably be some interest there but not totally sincere.” How about Somewhat No? (He mentioned the “plus side” versus the “minus side”) “even less interest.” [No problem]
E26	Definitely yes	She has seen him for a long time. A surgeon can show you that he cares by taking time, not rushing, and being personable. It is important that a surgeon care for you as a person – “because I am a person. He needs to know that I’m a mother.”
E27	Definitely yes	At the follow up visit, the surgeon said “you’ve been battling this for a couple of years. I remember when you first came in”. The respondent felt like she was more than a chart. He knew her history before he walked into the room instead of checking the chart while he was in the room. She felt “absolutely” that anytime you talk about “invading someone’s body” you need to understand them as a person. Their concerns can affect the outcomes of surgery.
E28	Somewhat yes	You never really know anybody. He could be a serial killer. SN: that they really felt that the surgeon what would that mean? If no, he would not have done that surgery. He would have been cold and had a bad bedside manner. I think he should care about you as a person. Show or do: I guess it would be in his attitude. It is really hard to read. He might have a bad bedside manner but care; others have a great bedside manner but don’t care.
E29	Definitely yes	Listens to you, makes eye contact, waits for your response, asks about my family, little things, asks where I work, asks about my health, asks about my teenagers. Care of overall person. SY—they felt rushed, not good personal touch from person, but the surgeon did his job. SN—you are a number, I have done this so many times, I have done 500 procedures, just trust me. Just a 10 minute appointment.
E30	Definitely yes	The fact that his staff came back, he came and visited twice; one where he didn’t have to visit. He had taken time to give some personal touch. SY-maybe they hadn’t spent enough time with them, blown off a few questions. SN-someone who felt like that some of the options weren’t pointed out to them, or not pointed out to the degree they should have been, didn’t answer questions. Not rude, or mean, but you were just a person in the cattle in the train.
S04	Somewhat no	I don’t know. Maybe I am just another patient. <i>What can a surgeon say or do to show that she/he really cares about you as a person? Well, maybe if she had called over the phone to follow up. I think they should care about people. I answered Somewhat no because she was nice, but she did not did that phone call [Not sure if this would be a potential problem with the scale??]</i>
S05	Definitely yes	I think he took care of me (“se preocupo”, worried about me?). He asked me how I was feeling, that I should not worry because everything was going to be fine. [No problem]
S14	Somewhat Yes	Yes, he cared about me as a person. He always asked if I understood everything and made sure I was reassured often, always knew what was

		coming next. Someone would say “somewhat no” if the doctor just wanted to know about the surgery and not much about the patient. DID NOT PROBE about alternate.
S15	Definitely Yes	<p>He can give you attention, he asks if you have any questions or if there are any problems. He doesn't just get there to examine you and then leave. Of course a surgeon should care about a patient as a person, I am a person. If not, then he is not doing his job well.</p> <p>ALTERNATE: Always.</p> <p>He always did, the questions are the same but I prefer the first one. It seems strange to say “how often,” because it makes it seem like he didn't do that all the time. I don't know, I like the first one better.</p>

52. Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate this surgeon?

- 0 Worst surgeon possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best surgeon possible

Goal: Determine if respondent is using reasonable and appropriate criteria in making a judgment.

IF 8 OR LESS: What would this surgeon have to do to get a higher rating from you -- say, to get a 9?

IF 9 OR 10: What would make you lower your rating of this surgeon to an 8? That is, what could she/he do or say that would cause you to lower your rating?

IF NOT 5: And, what would a surgeon who gets a "5" be like?

ID	Survey response	Verbal response
E04	10	Because there was no pain and he did a good job. He was concerned with doing a good job even before the surgery. He also came highly rated. I would rate lower if perhaps pain persisted, or if I didn't have an overall sense of who he was as a surgeon, if in one area he seemed slightly different. A 5 would be if the operation didn't work, and I know because I've been there. Someone who didn't care for the patient or for my personal success with the surgery. [No problem]
E14	10	"Hands down." "I trust him." What would make you lower your rating? If he rushed you one or two times, but he's still a good surgeon. 5? Still a good surgeon but his bedside manner stinks. [No problem]
E15	7	"Oh here we go, 1 to 10." Respondent repeated 'worst surgeon possible' and said "don't know what that means;" also repeated 'best surgeon possible' and said "don't know what that means." How get higher rating? "Would have given me caviar and flew me to Paris... come visit me and pamper me."

		<i>[Possible problem: the 0-10 rating system seems to be giving some respondents issues]</i>
E16	10	(He compared to his previous doctor; he had asked for a new one because he didn't like him and got this one). What would make you lower your rating? "Not being as patient with me... not giving me as many options." How about a 5? "You felt that he was a competent [surgeon]... talented enough... but maybe not feel quite as good about getting all your questions answered." He said that the doctor he switched from would probably be a 5. <i>[No problem]</i>
E26	10	"I've had a 0 – it's someone who gives you an infection and tells you there is not infection." She would have given the surgeon a lower rating if he had been cocky or curt (like he used to be) or if he said everything in black and white with no gray. A '5' would be "half-ass" – he wouldn't answer questions totally and respond statistically instead of personally.
E27	10	He was super – the whole demeanor – quiet and laid back, thorough. An '8' would be not as involved and provide as many assurances about what you feel like and what you can expect. A '5 or less' would be just coming in and available for the surgery and not involved beforehand and just having the staff tell you about what to do after the surgery.
E28	9	I don't know what a "best surgeon" would be. I don't know how mine could be better though. 8-not too bad, pretty good; mine was better. 5-I guess just skill, surgery. He would be mediocre in terms of skill.
E29	9	Mainly because the hospital staff told me that he rushes; he gets people in and out in a hurry. That hospital is very busy. I don't know—do you need to be that busy? Everyone can improve.
E30	9	I want to leave some room for improvement. Just 9. I could give him a 10; technically it could be a 10, but I will give him a 9. But I won't know for a few years. 5-middle of the road; technically good, maybe staff made a minor mistake, or maybe he isn't personal.
S04	9	Because she explained to me all what she was going to do, from the diet, side effects and everything. I would have given her a 8 if she wouldn't have answer the questions a 6 if she was late for the appointment, 4 if she would have not explained anything 2 if she was indifferent to what I was experiencing 0 if she have not done anything. [Check the scale. Does it seem appropriate how he rate different doctor's performance?]
S05	10	At the moment when I had the surgery, he was the best. He answered all my questions, but I never saw him again. I would have given him a: 5 if he would have given me half of the information 3 If he were very despot and that he would not care about anything 1 if we would not have answer my questions 0 If he didn't care about the surgery <i>[Potential problem, Do we really need this long scale?]</i>
S14	9	9 because he did everything I wanted, met my expectations. But I wouldn't give a 10, that is for someone who is perfect. An 8 is for someone who didn't spend as much with me as the surgeon did, someone who was not as pleasant.
S15	10	Because he's good, I've had other surgeries by him and he's the best. If he got an 8 he'd have to be less attentive and less careful..

53. Were the results of this surgery as good or better than you expected?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

Goal: Determine surgeon's role in establishing expectations.

Determine how expectations are created and if they are "realistic."

What were your expectations for the results of this surgery?

What made you feel this way? That is, what did you read about -- and what did people tell you -- that made you feel this way?

And, what (else) did the surgeon say or do that made you expect these results?

ID	Survey response	Verbal response
E04	Definitely yes	It was better than I expected, 80% of the time there is no pain. I thought I would still have to live with level 3 pain. I had this expectation from talking with the surgeon, he said it was a 50/50 chance that it would help. He was very direct. [No problem]
E14	Definitely yes	"better than I expected." What were your expectations? "To stop the horrendous bleeding and cramping." What did you read/hear? She had talked to other women who had had hysterectomies. What did the surgeon say? He tried another procedure first that didn't work. [No problem]
E15	Definitely yes	What were expectations? "I was really cool with [healing process being long]." She wanted to be able to get shoes on. What made feel this way? Talking to the surgeon. [No problem]
E16	Somewhat yes	"I still have a limp" (and a little pain). What were your expectations? "I was expecting the recovery to be a little quicker." What did the surgeon say...? "He's assured me that I could have been totally better in nine months... sometimes it takes a year and a half." [No problem]
E26	Definitely yes	It was exactly what she expected – the shunt would be reconnected and the fluid would flow again. The initial surgery was to correct the problem. This surgery was to maintain the correction to the problem.
E27	Definitely yes	The results were better than she expected – she has no numbness, can type without problems, and can barely see the scar site.
E28	Definitely yes	To be pain free and to get rid of all the excess skin I had in that area.
E29	Definitely yes	I should have done it 15 years ago. They were better. I expected...I didn't think the pain would be 99.5% gone, I thought it would be 70% gone. I didn't expect would really be pain free. I didn't think the anesthesia would have no effect on me. I thought I would have had nausea after anesthesia. I felt like going to work that day.
E30	Definitely yes	So far, I have felt good. I knew what to expect. I expected that the

		healing time would be within what he said. That I could go to work within so many weeks and what I could do. So we are progressively working through a lot of things but I knew this going in. I don't think you can explain. Like having a baby—as long she knows what to expect it is okay.
S04	Definitely yes	I thought my recovery was going to be slow and it was not.
S05	Definitely yes	If the results were good or better? It was really just what the doctor had said, that everything was going to be fine and everything was fine. [potential problem, with the scale maybe?]
S14	Somewhat Yes	They were what I expected, when you get plastic surgery it's because you want it to look better and it's hard to be content with things.
S15	Definitely Yes	It was good, I had some doubts about how it would turn out but I trust him and I knew he would do a good job, I've had surgeries done by him before.

ABOUT YOU

54. In general, how would you rate your overall health?

- 1 Excellent
 2 Very good
 3 Good
 4 Fair
 5 Poor

Goal: Determine the comparison group being used in making this judgment/

When you said [RESPONSE], who were you comparing yourself to? That is, what kinds of people were you comparing yourself to?

ID	Survey response	Verbal response
E04	Fair	I don't like this question [because it makes her feel bad about herself]. I was comparing to myself, how healthy do I feel. I would have said "good" if I had been to the gym this week. It can change frequently depending on physical and mental health. [No problem]
E14	Very good	"not excellent because I'm overweight, but I'm losing weight" Who comparing to? "Me, my past, when I was younger." She said that when she said she's overweight it was because they have a chart that says she's overweight, so it's a combination, you can't help but compare yourself to other people. <i>[No problem if we are sticking with the idea that it's OK if some people compare themselves to a previous self and some people compare themselves to others their age]</i>
E15	Very good	"I don't know!" Who comparing to? "All the teachers in my department who are younger but I can do all the same things they can.... I don't really compare myself to other 60-year-olds." <i>[Possible problem: this respondent seemed to pick an unusual comparison group]</i>
E16	Very good	"This foot thing has really set me back." Who comparing to? "Pretty much myself... some of the people that I know that are approximately my age." <i>[No problem if it's OK to compare to previous self AND others]</i>
E26	Poor	She was comparing herself to 20 years ago. Now, she takes 14 medications and there is a list of things wrong with her today that she did not have 20 years ago. Potential problem: She was comparing her health to what it was when she was younger, rather than people her own age.
E27	Very good	She was deciding between very good and good. She knows she needs to lose weight, but she does not have any major health issues like diabetes or high blood pressure. She was comparing herself to her mom (who has Parkinson's and cancer), her daughter (who has diabetes), and her

		husband (who has a terrible cough and can barely move some days).
E28	Very good	No one.
E29	Excellent	No, no comparison, how I feel, my numbers based on my physical
E30	Very good	Because for now, but they have to recheck everything every few months. I wasn't comparing myself to anyone. Given the diagnosis.
S04	Good	I have an small thing here and there. I was comparing myself with myself
S05	Good	"Toda mi salud?" She asked? [Potential problem,. Can we just delete toda?] I have had other surgeries, I don't feel a constant pain, but sometimes I feel pain.
S14	Excellent	Comparing to myself.
S15	Regular	Comparing to myself, I have a lot of problems.

55. What is your age?

- ¹ 18 to 24 years
- ² 25 to 34
- ³ 35 to 44
- ⁴ 45 to 54
- ⁵ 55 to 64
- ⁶ 65 to 74
- ⁷ 75 years or older

ID	Survey response	Verbal response (if any)
E04	35 to 44	[No problem]
E14	55-64	--
E15	55-64	--
E16	65-74	--
E26	35 to 44	43
E27	55 to 64	55
E28	35-44	
E29	45-54	
E30	45-54	
S04	35 to 44	
S05	35 to 44	
S14	25 to 34	
S15	75yrs or older	I am 77

56. Are you male or female?

¹ Male

² Female

ID	Survey response	Verbal response (if any)
E04	Female	[No problem]
E14	Female	--
E15	Female	--
E16	Male	--
E26	Female	
E27	Female	
E28	Female	
E29	Female	
E30	Male	
S04	Male	
S05	Female	
S14	Female	
S15	Female	

57. Not counting this surgery, about how many other surgeries have you had?

- ¹ None
- ² 1 surgery
- ³ 2 surgeries
- ⁴ 3 to 5 surgeries
- ⁵ 6 to 9 surgeries
- ⁶ 10 or more

Goal: Determine whether minor office and dental surgeries such as a wisdom tooth removal are being considered as surgeries.

IF NOT NONE: Tell me about them. What were they for?

Do you think they want you to count things like have a mole removed in the doctor's office as a surgery or not? Why (not)?

How about dental surgeries, such as having a wisdom tooth removed? Do you think they want you to count this or not? Why (not)?

ID	Survey response	Verbal response (if any)
E04	10 or more	2 back surgeries, 2 hysterectomies, ruptured spleen, c-section. I wouldn't include mole removal or wisdom teeth. I don't think those are major surgeries, I don't think that a surgeon would even care about those. [No problem.]
E14	10 or more	5 ganglions removed, broken bones and a related tumor, arthroscopy, wisdom teeth.... Do you think they want you to count things like having a mole removed? "I'm assuming no." Dental? "It's debatable, it's not clear. I just included them because you told me to think out loud" (I reminded her that she can change her mind but she didn't change her answer) <i>[Possible problem: counted dental surgeries. Maybe it wouldn't hurt to specify?]</i>
E15	6-9	Mole? "No. A surgery to me is when I'm completely asleep." Dental? "I didn't count those." <i>[No problem]</i>
E16	1	Deviated septum when he was a kid. Count mole removal? "No." Count dental? "They might mean that... I probably would have included that..." (but he hadn't had any dental surgeries so he didn't add them). <i>[Definite problem: it seems like we need to specify if we don't want people counting dental surgeries, esp. if it's a major surgery where you're under full anesthesia]</i>
E26	3 to 5 surgeries	She described the surgeries as: 1) wisdom teeth, 2) bursa removed from foot, 3) sinus surgery, 4) in-grown toenail surgery, and 5) 3 other surgeries with sent. She did not consider mole removal as surgery, but she did consider wisdom teeth as surgery. Potential problem: Respondent grouped all surgeries with her stent as

		one and did not choose the appropriate response option. If she had counted the stent surgeries separately, she would have chosen 6 to 9 surgeries.
E27	3 to 5 surgeries	She described surgeries as: 1) ganglion cyst, 2) tennis elbow, 3 & 4) tubal and reverse tubal, and 5) toe nail. She did not count mole removal as surgery – because it was something in the doctor's office. She did have her wisdom teeth taken out and other dental work to get her gums cut back, but she thinks of surgery as places where she can still see a scar. Potential problem: E26 included dental surgery; E27 did not include dental surgery.
E28	6-9 surgeries	5 c-sections, 1 gall bladder, vissurectomy (?), No mole, no dental surgeries.
E29	3-5 surgeries	If you count c-sections, 3-5 Mole-no; wisdom, no.
E30	2 surgeries	Not counting wisdom surgery. One surgery varicose vein/vasectomy & something else related orchiectomy.
S04	2 surgeries	Do you think they want you to count things like have a mole removed in the doctor's office as a surgery or not? Not and dental surgeries either. .. mm I don't know actually. [No problem]
S05	3 to 5 surgeries	She counted them right. Dentist and procedure to remove a mole are not surgeries
S14	2 surgeries	Had tonsils out, had surgery on my nose. So in all it's 3 but not including this it's 2. Yes, would include mole removal as a surgery because you have to go to a special doctor not just a general doctor. Dental extractions also count as surgery, especially if you need anesthesia.
S15	3-5 surgeries	I had a big one in Panama, then I had knee surgery here and later had some cysts removed. Yes, mole removal is a surgery because even though it's small the mole can be big trouble. Dental extractions are also surgeries, because it can lead to infection if you don't remove it.

58. What is the highest grade or level of school that you have completed?

- ¹ 8th grade or less
- ² Some high school, but did not graduate
- ³ High school graduate or GED
- ⁴ Some college or 2-year degree
- ⁵ 4-year college graduate
- ⁶ More than 4-year college degree

ID	Survey response	Verbal response
E04		
E14	Some college	--
E15	More than 4-year	--
E16	More than 4-year	--
E26	High school	Potential problem: Respondent noted that there was no an option for technical school on here, which she had completed. So, she marked high school graduate instead.
E27	More than 4-year degree	She got a Masters in Organizational Management in 2004 from the University of Phoenix.
E28	?	I don't see an answer that qualifies. I have a HS and I went to tech school. Some college or 2 year degree doesn't qualify. Potential problem: Respondent noted that there was no an option for technical school on here, which she had completed.
E29	More than 4-year degree	More than 4 year college degree.
E30	4 year college graduate	
S04	High school graduate or GED	
S05	High school graduate or GED	
S14	HS grad	
S15	8 th grade or less	

59. Are you of Hispanic or Latino origin or descent?

¹ Yes, Hispanic or Latino

² No, not Hispanic or Latino

ID	Survey response	Verbal response (if any)
E04		
E14	No	--
E15	No	--
E16	No	--
E26	No	
E27	No	
E28	No	
E29	No	
E30	No	
S04	Yes, Hispanic or Latino	
S05	Yes, Hispanic or Latino	
S14	Yes	
S15	Yes	

60. What is your race? Please mark one or more.

- ¹ White
- ² Black or African American
- ³ Asian
- ⁴ Native Hawaiian or Other Pacific Islander
- ⁵ American Indian or Alaskan Native
- ⁶ Other

ID	Survey response	Verbal response (if any)
E04		
E14	White	--
E15	White	--
E16	White	--
E26	White	
E27	Black or African American	
E28	Problem	I hate this question. If you have African-American. If you have white, but not black, so I should be classified as German and Native American
E29	White	
E30	White	European American Institutes for Research
S04	Other	
S05	White	White? I guess. I am not sure
S14	Other	
S15	Other	

1. Overall, what questions did you have problems with? Please elaborate.

ID	Response
E04	Q36 was too long. It made me tongue tied when I had to read it out loud [although I didn't notice any problems when she read it aloud]. It was too wordy.
E14	<ul style="list-style-type: none"> • Some questions didn't have enough adjectives so you didn't know exactly what you want (e.g., with the how many surgeries question – what kind of surgeries). • The one about medical mistakes is not clear enough. • #35 – “give” implies that they handed you something. • No questions about courtesy/respect/listening in the time after the surgery – she had stuff to say about how she was treated (very well) in the hospital overnight and just thought she should mention that she noticed that there were no questions about that time period, in case we were interested.
E15	The 0-10 rating ones. “That’s just a real hard thing...”
E16	(ran out of time)
E26	She did not have problems with any questions. But, I have a horrible memory. Before I came today, I had to go back over in my head about the surgery and what had happened with the scheduling and all that. I keep a list of my medications in my purse too because I can't remember everything I take.
E27	The hardest question was thinking about the office staff and whether it included receptionists and nursing staff. Everything on surgeon and surgery was good.
E28	Questions relating to being more calm pre-op; also after surgery questions, unclear what they want, race questions.
E29	<p>No, not really. Maybe 19—long delays—that is all relative, maybe write “unexpected delays”—more definition or rewording.</p> <p>Q30—they didn't want to know about the hospital staff; that makes or breaks a surgery. I had phenomenal staff. They know all the surgeons.</p> <p>Facility staff is so important, they do prep work, post op, get me help to get home.</p> <p>Medical mistakes--???that is just hard to ... I don't know if anyone would be aware of mistakes. No one wants to be aware of them.</p>
E30	
S04	<p>There were question about the “service” (atencion) after the surgery, but there was not much to say. I only had one appointment</p> <p>Question 43 was not clear, because they asked me about the frequency</p>
S05	
S14	No
S15	No

2. Was there anything else that was unclear or confusing to you, or anything that sounded strange?

Yes ---> Please describe

No

ID	Response
E04	No, it was all pretty clear.
E14	--
E15	<ul style="list-style-type: none"> • Sometimes there are timelines that weren't clear (5 minutes vs. 5 hours after my surgery??) • The word 'staff,' "that's real unclear."
E16	(ran out of time)
E26	No
E27	No
E28	No
E29	No
E30	No
S04	
S05	
S14	No
S15	No

APPENDIX F:
SURGICAL CAHPS COGNITIVE TESTING
SURVEY RESULTS

BEFORE YOUR SURGERY

2. Was your surgery scheduled as soon as you needed?

18/2/2	Round 1*	Round 2
Definitely yes	13	6
Somewhat yes	1	5
Somewhat no	0	1
Definitely no	2	1

*One listed as "yes".

3. Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?

19/3/3	Round 1	Round 2
Definitely yes	10	11
Somewhat yes	5	2
Somewhat no	1	0
Definitely no	1	0

4. Did this surgeon or this surgeon's staff give you easy to understand instructions about getting ready for your surgery?

21/5/4	Round 1	Round 2
Definitely yes	14	12
Somewhat yes	3	0
Somewhat no	0	0
Definitely no	0	1

5. Before your surgery, did you phone this surgeon's office with a medical question?

22/6/5	Round 1	Round 2
Yes	2	3
No	15	10

6. Before your surgery, when you phoned this surgeon's office, did you get your medical questions answered as soon as you needed?

23/7/6	Round 1		Round 2
Never	1	Definitely yes	3
Sometimes	0	Somewhat yes	1
Usually	1	Somewhat no	0
Always	0	Definitely no	1

7. Before your surgery, how many office visits did you have with this surgeon?

24/8/7	Round 1	Round 2*
None	1	0
1 Visit	4	3
2 Visits	5	2
3 Visits	2	2
4 to 6 Visits	1	3
7 or more Visits	3	2

*One marked as "None→1 visit"

8. During your office visits before your surgery, did this surgeon talk to you to find out about important things in your medical history?

25/9/8	Round 1	Round 2
Yes	12	10
No	4	3

9. During your office visits before your surgery, did this surgeon tell you there was more than one way to treat your condition?

26/10/9	Round 1	Round 2
Yes	8	10
No	8	3

10. During your office visits before your surgery, did this surgeon ask which way to treat your condition you thought was best for you?

27/11/10	Round 1	Round 2
Yes	9	5
No	2	5*

*Two of these answered “no” but should have skipped the question

11. During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?

28/12/11	Round 1	Round 2
Yes	13	10
No	3	2

12. During your office visits before your surgery, did this surgeon listen carefully to you?

29/13/12	Round 1		Round 1 (alternate)	Round 2
Never	0	Definitely yes	7	12
Sometimes	1	Somewhat yes	0	1
Usually	5	Somewhat no	1	0
Always	9	Definitely no	1	0

13. During your office visits before your surgery, did this surgeon spend enough time with you?

30/14/13	Round 1		Round 1 (alternate)	Round 2
Never	0	Definitely yes	7	12
Sometimes	1	Somewhat yes	0	1
Usually	5	Somewhat no	1	0
Always	9	Definitely no	1	0

14. During your office visits before your surgery, did this surgeon encourage you to ask questions?

31/15/14	Round 1*		Round 2
Never	1	Definitely yes	9
Sometimes	3	Somewhat yes	4
Usually	1	Somewhat no	0
Always	10	Definitely no	0

*One “usually/always” response

15. During your office visits before your surgery, did this surgeon treat you with courtesy and respect?

32/16/15	Round 1		Round 2
Never	0	Definitely yes	13
Sometimes	0	Somewhat yes	0
Usually	2	Somewhat no	0
Always	14	Definitely no	0

16. During your office visits before your surgery, did this surgeon or this surgeon's staff use diagrams, models, videos, or other materials to help explain things to you?

20/4/16	Round 1	Round 2
Yes	11	10
No	6	3

YOUR SURGERY

17. After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?

2/17/17	Round 1	Round 2
Yes	16	11
No	1	2

18. Did this visit make you feel more calm and relaxed?

3/18/18	Round 1	Round 2
Definitely yes	5	8
Somewhat yes	5	4
Somewhat no	0	0
Definitely no	0	3

19. After you were admitted to the hospital or surgical facility, were there any long delays before your surgery began?

4/19/19	Round 1	Round 2
Yes	3	5
No	14	8

20. Were you kept informed about how long you would have to wait for your surgery to begin?

5/20/20	Round 1	Round 2
Definitely yes	7	6
Somewhat yes	0	1
Somewhat no	0	1
Definitely no	2	1

21. Were any family or friends in the building during your surgery?

6/21/21	Round 1	Round 2
Yes	15	12
No	2	1

22. Did this surgeon or a member of the operating team discuss your surgery with your family or friends immediately after the surgery was over?

7/22/22	Round 1	Round 2
Yes	13	11
No	0	0
Don't know	2	1

23. Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery?

8/23/23	Round 1	Round 2*
Yes	11	9
No	6	3

*One responded "don't know"

24. Did this visit occur in the first 24 hours after your surgery?

9/24/24	Round 1	Round 2
Yes	11	10
No	1	0

ANESTHESIOLOGY

25. Were you given something so you would not feel pain during your surgery?

10/25/25	Round 1	Round 2
Yes	17	13
No	0	0

26. Did an anesthesiologist do this or did this surgeon give you something so you would not feel pain during your surgery?

11/26/26	Round 1	Round 2
Anesthesiologist	15	13
Surgeon	2	0
Don't know	0	0

27. Did this anesthesiologist encourage you to ask questions?

12/27/27	Round 1	Round 2
Definitely yes	7	5
Somewhat yes	5	4
Somewhat no	3	1
Definitely no	1	3

28. Did you ask this anesthesiologist any questions?

13/28/28	Round 1	Round 2
Yes	9	9
No	8	4

29. Did this anesthesiologist answer your questions clearly?

14/29/29	Round 1	Round 2
Definitely yes	8	8
Somewhat yes	1	0
Somewhat no	0	0
Definitely no	1	1

30. After you arrived at the hospital or surgical facility, did this anesthesiologist visit you before your surgery?

15/30/30	Round 1	Round 2
Yes	14	12
No	3	1

31. Did talking with this anesthesiologist during this visit make you feel more calm and relaxed?

16/31/31	Round 1	Round 2
Definitely yes	7	3
Somewhat yes	5	4
Somewhat no	1	3
Definitely no	1	0

32. Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?

17/32/32	Round 1	Round 2*
1	0	0
2	0	0
3	0	0
4	0	0
5	1	0
6	1	0
7	0	0
8	3	2
9	2	4
10	6	6

*One chose "9 and 10"

AFTER YOUR SURGERY

33. Did this surgeon or this surgeon's staff explain what to expect during your recovery period?

33/33/33	Round 1	Round 2
Definitely yes	12	9
Somewhat yes	4	4
Somewhat no	1	0
Definitely no	0	0

34. Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery period?

34/34/34	Round 1	Round 2
Definitely yes	11	10
Somewhat yes	3	0
Somewhat no	1	0
Definitely no	0	2

35. Did this surgeon or this surgeon's staff give you easy to understand instructions about what to do during your recovery period?

35/35/35	Round 1	Round 2
Definitely yes	11	12
Somewhat yes	4	1
Somewhat no	1	0
Definitely no	1	0

36. Did this surgeon make sure you were physically comfortable or had enough pain relief after you left the facility where you had your surgery?

39/39/36	Round 1	Round 2
Definitely yes	14	10
Somewhat yes	1	1
Somewhat no	1	1
Definitely no	1	1

37. After your surgery, did you phone this surgeon's office with a medical question?

41/41/37	Round 1	Round 2
Yes	7	3
No	10	10

38. After your surgery, when you phoned this surgeon's office, did you get an answer to your medical questions as soon as you needed?

42/42/38	Round 1		Round 2
Never	2	Definitely yes	1
Sometimes	1	Somewhat yes	0
Usually	0	Somewhat no	2
Always	4	Definitely no	1

39. After your surgery, did you visit this surgeon at the surgeon's office, or talk with this surgeon?

NA/NA/39	Round 1	Round 2
Yes	NA	12
No	NA	1

40. After your surgery, did this surgeon listen carefully to you?

43/43/40	Round 1		Round 2
Never	2	Definitely yes	10
Sometimes	2	Somewhat yes	2
Usually	1	Somewhat no	0
Always	11	Definitely no	0

41. After your surgery, did this surgeon spend enough time with you?

44/44/41	Round 1		Round 1 (alternate)	Round 2
Never	2	Definitely yes	9	9
Sometimes	5	Somewhat yes	0	2
Usually	1	Somewhat no	1	1
Always	8	Definitely no	0	0

42. After your surgery, did this surgeon encourage you to ask questions?

45/45/42	Round 1		Round 2
Never	3	Definitely yes	6
Sometimes	2	Somewhat yes	3
Usually	0	Somewhat no	1
Always	11	Definitely no	0

43. After your surgery, did this surgeon treat you with courtesy and respect?

46/46/43	Round 1		Round 2
Never	1	Definitely yes	11
Sometimes	0	Somewhat yes	0
Usually	2	Somewhat no	0
Always	14	Definitely no	0

44. After your surgery, how many times did you visit this surgeon's office?

47/47/44	Round 1	Round 2
None	1	1
1	3	4
2	6	2
3	3	2
4 to 6	1	3
7	2	1

STAFF AT THIS SURGEON'S OFFICE

45. Were the staff at this surgeon's office as helpful as you thought they should be?

48&49/48&49/45	Round 1*			Round 2
	Clerks (48)	Other (49)		
Never	0	2	Definitely yes	9
Sometimes	1	3	Somewhat yes	4
Usually	3	2	Somewhat no	0
Always	8	7	Definitely no	0

*One responded "Never to sometimes"

46. Did the staff at this surgeon's office treat you with courtesy and respect?

50&51/50&51/46	Round 1			Round 2
	Clerks (50)	Other (51)		
Never	0	1	Definitely yes	12
Sometimes	2	3	Somewhat yes	1
Usually	2	1	Somewhat no	0
Always	12	10	Definitely no	0

YOUR OVERALL CARE FROM THIS SURGEON

47. Were you aware of any medical mistakes by this surgeon in your treatment?

36/36/47	Round 1	Round 2
Yes	3	0
No	13	13

48. Did these mistakes cause any significant problems for your treatment or condition?

37/37/48	Round 1**	Round 2*
Definitely yes	2	0
Somewhat yes	0	0
Somewhat no	0	0
Definitely no	3	2

*Two missed the skip pattern and should not have answered.

**One responded "yes"

49. Did this surgeon explain how the mistake happened?

38/38/49	Round 1*	Round 2*
Yes	0	0
No	5	2

*Two missed the skip pattern and should not have answered.

50. Did this surgeon check to be sure you understood everything?

52/52/50	Round 1		Round 2
Never	1	Definitely yes	12
Sometimes	2	Somewhat yes	1
Usually	2	Somewhat no	0
Always	12	Definitely no	0

51. Do you feel this surgeon really cared about you as a person?

53/53/51	Round 1	Round 2
Definitely yes	14	11
Somewhat yes	3	1
Somewhat no	0	1
Definitely no	0	0

52. Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate this surgeon?

54/54/52	Round 1*	Round 2
1	0	0
2	0	0
3	0	0
4	1	0
5	0	0
6	0	0
7	0	1
8	3	0
9	2	5
10	9	7

*One answered "9-10".

53. Were the results of this surgery as good or better than you expected?

55/55/53	Round 1	Round 2
Definitely yes	10	11
Somewhat yes	3	2
Somewhat no	1	0
Definitely no	2	0

ABOUT YOU

54. In general, how would you rate your overall health?

56/56/54	Round 1	Round 2*
Excellent	2	2
Very good	6	6
Good	3	2
Fair	6	1
Poor	0	1

*One responded "regular"

55. What is your age?

57/57/55	Round 1	Round 2
18 to 24 years	1	0
25 to 34	1	1
35 to 44	3	5
45 to 54	5	2
55 to 64	4	3
65 to 74	1	1
75 years or older	1	1

56. Are you male or female?

58/58/56	Round 1	Round 2
Male	9	3
Female	8	10

57. Not counting this surgery, about how many other surgeries have you had?

59/59/57	Round 1	Round 2
None	0	3

1	1	3
2	3	3
3 to 5	5	7
6 to 9	2	0
10 or more	2	1

58. What is the highest grade or level of school that you have completed?

60/60/58	Round 1	Round 2
8 th grade or less	2	1
Some high school, but did not graduate	2	0
High school graduate or GED	2	4
Some college or 2-year degree	5	1
4-year college graduate	2	1
More than 4-year college degree	3	4

59. Are you of Hispanic or Latino origin or descent?

61/61/59	Round 1	Round 2
Yes, Hispanic or Latino	6	4
No, not Hispanic or Latino	9	8

60. What is your race? Please mark one or more.

62/62/60	Round 1	Round 2
White	10	7
Black or African American	2	1
Asian	1	0
Native Hawaiian or Other Pacific Islander	1	0
American Indian or Alaskan Native	0	0
Other	2	3

APPENDIX G:
FIELD TEST VERSIONS OF
SURGICAL CAHPS SURVEY

Surgical Care Questionnaire

Pre-Field Test Version A

4/16/08 draft

SURVEY INSTRUCTIONS

- Answer all the questions by checking the box to the left of your answer.
- You are sometimes told to skip over some questions in this survey. When this happens you will see an arrow with a note that tells you what question to answer next, like this:
 - Yes → ***If Yes, Go to Question 1 on Page 1***
 - No

YOUR SURGEON

1. Our records show that the surgeon named in the enclosed letter performed surgery on you on the date indicated in the letter. Is this right?

¹ Yes → If Yes, Go to Question 2

² No → If No, Please check this box and return the survey in the enclosed envelope.

BEFORE YOUR SURGERY

2. Was your surgery scheduled as soon as you needed?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

3. Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

4. Did this surgeon or this surgeon's staff give you easy to understand instructions about getting ready for your surgery?

¹ Definitely yes

² Somewhat yes

³ Somewhat no

⁴ Definitely no

5. Before your surgery, how many office visits did you have with this surgeon?

¹ None → If None, Go to Question 15

² 1 visit

³ 2 visits

⁴ 3 visits

⁵ 4 to 6 visits

⁶ 7 or more visits

6. **During your office visits before your surgery, did this surgeon tell you there was more than one way to treat your condition?**
- ¹ Yes
- ² No → If No, Go to Question 9
7. **During your office visits before your surgery, did this surgeon ask which way to treat your condition you thought was best for you?**
- ¹ Yes
- ² No
8. **During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?**
- ¹ Yes
- ² No
9. **During your office visits before your surgery, did this surgeon listen carefully to you?**
- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no
10. **During your office visits before your surgery, did this surgeon spend enough time with you?**
- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no
11. **During your office visits before your surgery, did this surgeon encourage you to ask questions?**
- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

12. During your office visits before your surgery, did this surgeon treat you with courtesy and respect?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

13. During your office visits before your surgery, did this surgeon or this surgeon's staff use diagrams, models, videos, or other materials to help explain things to you?

- ¹ Yes
- ² No → If No, Go to Question 15

14. Did these diagrams, models, videos, or other material help you better understand your condition and its treatment?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

YOUR SURGERY

15. After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?

- ¹ Yes
- ² No → If No, Go to Question 17

16. Did this visit make you feel more calm and relaxed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

17. After you were admitted to the hospital or surgical facility, were there any long delays before your surgery began?

- ¹ Yes
- ² No → If No, Go to Question 19

18. Were you kept informed about how long you would have to wait for your surgery to begin?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

19. Were any family or friends in the building during your surgery?

- ¹ Yes
- ² No → If No, Go to Question 21

20. Did this surgeon or a member of the operating team discuss your surgery with your family or friends immediately after the surgery was over?

- ¹ Yes
- ² No
- ³ Don't know

21. Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery?

- ¹ Yes
- ² No
- ³ Don't know

22. How soon after your surgery did this surgeon discuss the outcome of the surgery with you?

- ¹ Less than 1 day after the surgery
- ² 1 to 3 days after the surgery
- ³ 4 to 7 days after the surgery
- ⁴ 1 to 4 weeks after the surgery
- ⁵ More than 1 month after the surgery
- ⁶ Never

ANESTHESIOLOGY

23. Were you given something so you would not feel pain during your surgery?

- ¹ Yes
- ² No → If No, Go to question 31

24. Who gave you something so you would not feel pain during your surgery?

- ¹ Anesthesiologist did this
- ² Surgeon did this → If this surgeon did this, Go to question 31
- ³ Don't know → If Don't know, Go to question 31

25. Did this anesthesiologist encourage you to ask questions?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

26. Did you ask this anesthesiologist any questions?

- ¹ Yes
- ² No →> If No, Go to question 28

27. Did this anesthesiologist answer your questions clearly?

- ¹ Yes
- ² No

28. After you arrived at the hospital or surgical facility, did this anesthesiologist visit you before your surgery?

- ¹ Yes
- ² No → If No, Go to Question 30

29. Did talking with this anesthesiologist during this visit make you feel more calm and relaxed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

30. Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?

- 0 Worst anesthesiologist possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best anesthesiologist possible

AFTER YOUR SURGERY

31. Did this surgeon or this surgeon's staff explain what to expect during your recovery period?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

32. Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery period?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

- 33. Did this surgeon or this surgeon's staff give you easy to understand instructions about what to do during your recovery period?**
- ¹ Definitely yes
 - ² Somewhat yes
 - ³ Somewhat no
 - ⁴ Definitely no
- 34. Did this surgeon make sure you were physically comfortable or had enough pain relief after you left the facility where you had your surgery?**
- ¹ Definitely yes
 - ² Somewhat yes
 - ³ Somewhat no
 - ⁴ Definitely no
- 35. After your surgery, did you talk with this surgeon by phone or visit this surgeon at his or her office?**
- ¹ Yes
 - ² No → If No, Go to Question 40
- 36. After your surgery, did this surgeon listen carefully to you?**
- ¹ Definitely yes
 - ² Somewhat yes
 - ³ Somewhat no
 - ⁴ Definitely no
- 37. After your surgery, did this surgeon spend enough time with you?**
- ¹ Definitely yes
 - ² Somewhat yes
 - ³ Somewhat no
 - ⁴ Definitely no
- 38. After your surgery, did this surgeon encourage you to ask questions?**
- ¹ Definitely yes
 - ² Somewhat yes
 - ³ Somewhat no
 - ⁴ Definitely no

39. After your surgery, did this surgeon treat you with courtesy and respect?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

40. After your surgery, did you phone this surgeon's office with a medical question?

- ¹ Yes
- ² No → If No, Go to Question 42

41. After your surgery, when you phoned this surgeon's office, did you get an answer to your medical questions as soon as you needed?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

42. After your surgery, how many times did you visit this surgeon's office?

- ¹ None
- ² 1 visit
- ³ 2 visits
- ⁴ 3 visits
- ⁵ 4 to 6 visits
- ⁶ 7 or more visits

STAFF AT THIS SURGEON'S OFFICE

43. Staff at this surgeon's office includes receptionists, clerks, nurses, and other people working in the office. Were the staff at this surgeon's office as helpful as you thought they should be?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

44. Did the staff at this surgeon's office treat you with courtesy and respect?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

YOUR OVERALL CARE FROM THIS SURGEON
--

45. Were you aware of any medical mistakes by this surgeon in your treatment?

- 1 Yes
- 2 No → If No, Go to Question 48

46. Did these mistakes cause any significant problems for your treatment or condition?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

47. Did this surgeon explain how the mistake happened?

- 1 Yes
- 2 No

48. Do you feel this surgeon really cared about you as a person?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

49. Did this surgeon check to be sure you understood everything?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

50. Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate this surgeon?

- 0 Worst surgeon possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best surgeon possible

51. Were the results of this surgery as good or better than you expected?

- ¹ Definitely yes
- ² Somewhat yes
- ³ Somewhat no
- ⁴ Definitely no

ABOUT YOU

52. In general, how would you rate your overall health?

- ¹ Excellent
- ² Very good
- ³ Good
- ⁴ Fair
- ⁵ Poor

53. What is your age?

- 1 18 to 24 years
- 2 25 to 34 years
- 3 35 to 44 years
- 4 45 to 54 years
- 5 55 to 64 years
- 6 65 to 74 years
- 7 75 years or older

54. Are you male or female?

- 1 Male
- 2 Female

55. Not counting this surgery, about how many other surgeries have you had?

- 1 None
- 2 1 surgery
- 3 2 surgeries
- 4 3 to 5 surgeries
- 5 6 to 9 surgeries
- 6 10 or more

56. What is the highest grade or level of school that you have completed?

- 1 8th grade or less
- 2 Some high school, but did not graduate
- 3 High school graduate or GED
- 4 Some college or 2-year degree
- 5 4-year college graduate
- 6 More than 4-year college degree

57. Are you of Hispanic or Latino origin or descent?

- 1 Yes, Hispanic or Latino
- 2 No, not Hispanic or Latino

58. What is your race? Please mark one or more.

- ¹ White
- ² Black or African American
- ³ Asian
- ⁴ Native Hawaiian or Other Pacific Islander
- ⁵ American Indian or Alaskan Native
- ⁶ Other

THANK YOU

Please return the completed survey in the postage-paid envelope.

Cuestionario de atención de cirugía

Versión A
(antes de la prueba de campo)

Borrador, 16 abril 2008

Esta página se ha dejado en blanco intencionalmente

Instrucciones para el cuestionario

- Conteste todas las preguntas marcando con una “x” el cuadrito que aparece a la izquierda de la respuesta que usted elija: .

- A veces hay que saltarse alguna pregunta. Cuando esto ocurra, una flecha a la derecha de la respuesta le indicará a qué pregunta hay que pasar. Por ejemplo:
 - Sí → Si contestó “Sí”, pase a la pregunta 1
 - No

SU CIRUJANO

1. Nuestros registros indican que el cirujano cuyo nombre está en la carta adjunta le operó en la fecha indicada en la carta. ¿Es correcta esta información?

¹ Sí → Si contestó “Sí”, pase a la pregunta 2

² No → Si contestó “No”, marque este cuadrado y devuelva el cuestionario en el sobre adjunto.

ANTES DE SU CIRUGÍA

2. ¿Su cirugía se programó tan pronto como usted lo necesitaba?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

3. ¿Este cirujano o su personal le dieron suficiente información sobre su cirugía antes de realizarla?

¹ Definitivamente sí

² Un poco, sí

³ No mucha, no

⁴ Definitivamente no

4. ¿Le dio este cirujano o su personal instrucciones fáciles de entender sobre cómo prepararse para su cirugía?

¹ Definitivamente sí

² Unas pocas, sí

³ No muchas, no

⁴ Definitivamente no

5. Antes de la cirugía, ¿cuántas consultas tuvo con este cirujano?

¹ Ninguna → Si contestó “Ninguna”, pase a la pregunta 15

² 1 consulta

³ 2 consultas

⁴ 3 consultas

⁵ 4 a 6 consultas

⁶ 7 o más consultas

6. Durante las consultas previas a su cirugía, ¿le dijo este cirujano que había más de una manera de tratar su enfermedad o problema de salud?

¹ Sí

² No → Si contestó “No”, pase a la pregunta 9

7. Durante las consultas previas a su cirugía, ¿le preguntó este cirujano qué manera de tratar su enfermedad o problema de salud creía usted que le convenía más?

¹ Sí

² No

8. Durante las consultas previas a su cirugía, ¿habló con usted este cirujano sobre los riesgos y beneficios de cada opción de tratamiento?

¹ Sí

² No

9. Durante las consultas previas a su cirugía, ¿le escuchó con atención este cirujano?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

10. Durante las consultas previas a su cirugía, ¿pasó este cirujano suficiente tiempo con usted?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

11. Durante las consultas previas a su cirugía, ¿le animó este cirujano a que usted le hiciera preguntas?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

12. Durante las consultas previas a su cirugía, ¿le trató este cirujano con cortesía y respeto?

- 1 Definitivamente sí
- 2 Un poco, sí
- 3 No mucho, no
- 4 Definitivamente no

13. Antes de su cirugía, ¿el cirujano o su personal usaron diagramas, modelos, videos o algún otro material para explicarle las cosas?

- 1 Sí
- 2 No → Si contestó “No”, pase a la pregunta 15

14. ¿Estos diagramas, modelos, videos o algún otro material le ayudaron a entender mejor su problema de salud y cómo tratarlo?

- 1 Definitivamente sí
- 2 Un poco, sí
- 3 No mucho, no
- 4 Definitivamente no

SU CIRUGÍA

15. Después de llegar al hospital o al centro de cirugía, ¿le vio este cirujano antes de la cirugía?

- 1 Sí
- 2 No → Si contestó “No”, pase a la pregunta 17

16. ¿Esta visita le hizo sentirse más tranquilo y relajado?

- 1 Definitivamente sí
- 2 Un poco, sí
- 3 No mucho, no
- 4 Definitivamente no

17. Después de ingresar al hospital o al centro de cirugía, ¿hubo alguna demora larga antes de que su cirugía comenzara?

- 1 Sí
- 2 No → Si contestó “No”, pase a la pregunta 19

18. ¿Le mantuvieron informado sobre cuánto tendría que esperar hasta que su cirugía comenzara?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

19. ¿Estuvo algún familiar o amigo en el edificio durante su cirugía?

- ¹ Sí
- ² No → Si contestó “No”, pase a la pregunta 21

20. ¿Habló este cirujano o un miembro del equipo de cirugía con sus familiares o amigos sobre su cirugía inmediatamente después de que terminara la cirugía?

- ¹ Sí
- ² No
- ³ No sé

21. Antes de que saliera del hospital o del centro de cirugía, ¿este cirujano fue a verlo y habló con usted sobre el resultado de su cirugía?

- ¹ Sí
- ² No
- ³ No sé

22. ¿Qué tan pronto después de la cirugía este cirujano discutió con usted el resultado de la cirugía?

- ¹ Menos de un día después de la cirugía
- ² 1 a 3 días después de la cirugía
- ³ 4 a 6 días después de la cirugía
- ⁴ 1 a 4 semanas después de la cirugía
- ⁵ Más de un mes después de la cirugía
- ⁶ Nunca

ANESTESIOLOGÍA

23. ¿Le dieron algo para que no sintiera dolor durante la cirugía?

- ¹ Sí
- ² No → Si contestó “No”, pase a la pregunta 31

- 24. ¿Quién le dio algo para que no sintiera dolor durante la cirugía?**
- ¹ Un anestesiólogo lo hizo
 - ² Este cirujano lo hizo → **Si contestó “Este cirujano lo hizo”, pase a la pregunta 31**
 - ³ No sé → **Si contestó “No sé”, pase a la pregunta 31**
- 25. ¿Este anestesiólogo le animó a que usted le hiciera preguntas?**
- ¹ Definitivamente sí
 - ² Un poco, sí
 - ³ No mucho, no
 - ⁴ Definitivamente no
- 26. ¿Le hizo usted alguna pregunta al anestesiólogo?**
- ¹ Sí
 - ² No → **Si contestó “No”, pase a la pregunta 28**
- 27. ¿Este anestesiólogo respondió sus preguntas con claridad?**
- ¹ Definitivamente sí
 - ² Un poco, sí
 - ³ No mucho, no
 - ⁴ Definitivamente no
- 28. Después de llegar al hospital o al centro de cirugía, ¿le vio este anestesiólogo antes de su cirugía?**
- ¹ Sí
 - ² No → **Si contestó “No”, pase a la pregunta 30**
- 29. ¿Le hizo sentirse más tranquilo y relajado hablar con este anestesiólogo durante esta visita?**
- ¹ Definitivamente sí
 - ² Un poco, sí
 - ³ No mucho, no
 - ⁴ Definitivamente no

30. Usando un número del 0 al 10, donde el 0 es el peor anestesiólogo posible y el 10 el mejor anestesiólogo posible, ¿qué número usaría para calificar a este anestesiólogo?

- 0 El peor anestesiólogo posible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 El mejor anestesiólogo posible

DESPUÉS DE SU CIRUGÍA

31. ¿Este cirujano o su personal le explicaron qué debía esperar durante su recuperación?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

32. ¿Este cirujano o su personal le advirtieron sobre qué signos o síntomas requerirían atención médica inmediata durante su recuperación?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

33. ¿Le dio este cirujano o su personal instrucciones fáciles de entender sobre que hacer durante su recuperación?

- ¹ Definitivamente sí
- ² Unas pocas, sí
- ³ No muchas, no
- ⁴ Definitivamente no

34. ¿Se aseguró este cirujano de que usted se sintiera físicamente cómodo o tuviera un alivio adecuado del dolor después de salir de las instalaciones donde tuvo la cirugía?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

35. Después de su cirugía, ¿ habló con este cirujano por teléfono o fue a verlo en su consultorio?

- ¹ Sí
- ² No → Si contestó “No”, pase a la pregunta 42

36. Después de su cirugía, ¿le escuchó con atención este cirujano?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

37. Después de su cirugía, ¿pasó este cirujano suficiente tiempo con usted?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

38. Después de su cirugía, ¿le animó a hacer preguntas este cirujano?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

39. Después de su cirugía, ¿le trató este cirujano con cortesía y respeto?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

40. Después de su cirugía, ¿llamó por teléfono al consultorio de este cirujano para hacer una pregunta médica?

¹ Sí

² No → Si contestó “No”, pase a la pregunta 42

41. Después de su cirugía, cuando llamó por teléfono al consultorio de este cirujano, ¿le contestaron su pregunta médica tan pronto como lo necesitaba?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

42. Después de su cirugía, ¿cuántas veces visitó el consultorio de este cirujano?

¹ Ninguna

² 1 consulta

³ 2 consultas

⁴ 3 consultas

⁵ 4 a 6 consultas

⁶ 7 o más consultas

EL PERSONAL DEL CONSULTORIO DE ESTE CIRUJANO

43. El personal del consultorio incluye recepcionistas, oficinistas, enfermeras y otras personas que trabajan en el consultorio. ¿Le dio el personal del consultorio de este cirujano toda la ayuda que usted creía que debía darle?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

44. ¿Le trató el personal del consultorio de este cirujano con cortesía y respeto?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

LA ATENCIÓN GENERAL QUE RECIBÍ DE ESTE CIRUJANO
--

45. ¿Se dio cuenta de si hubo algún error médico en su tratamiento?

¹ Sí

² No → Si contestó “No”, pase a la pregunta 48

46. ¿Estos errores le causaron algún problema significativo respecto al tratamiento o a su problema de salud?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

47. ¿Este cirujano le explicó cómo ocurrió el error?

¹ Sí

² No

48. ¿Siente que este cirujano realmente se preocupó por usted como persona?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

49. ¿Comprobó este cirujano que usted entendiera todo?

¹ Definitivamente sí

² Un poco, sí

³ No mucho, no

⁴ Definitivamente no

50. Usando un número del 0 al 10, donde el 0 es el peor cirujano posible y el 10 el mejor cirujano posible, ¿qué número usaría para calificar a este cirujano?

- 0 El peor cirujano posible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 El mejor cirujano posible

51. ¿Los resultados de esta cirugía fueron mejores o tan buenos como lo esperaba?

- ¹ Definitivamente sí
- ² Un poco, sí
- ³ No mucho, no
- ⁴ Definitivamente no

SOBRE USTED

52. En general, ¿cómo calificaría toda su salud?

- ¹ Excelente
- ² Muy buena
- ³ Buena
- ⁴ Regular
- ⁵ Mala

53. ¿Qué edad tiene?

- 1 18 a 24 años
- 2 25 a 34 años
- 3 35 a 44 años
- 4 45 a 54 años
- 5 55 a 64 años
- 6 65 a 74 años
- 7 75 o más años

54. ¿Es usted hombre o mujer?

- 1 Hombre
- 2 Mujer

55. Sin contar esta cirugía, ¿aproximadamente cuántas cirugías más ha tenido?

- 1 Ninguna
- 2 1 cirugía
- 3 2 cirugías
- 4 3 a 5 cirugías
- 5 6 a 9 cirugías
- 6 10 o más cirugías

56. ¿Cuál es el grado o nivel escolar más alto que ha completado?

- 1 8 años de escuela o menos
- 2 9 a 12 años de escuela, pero sin graduarse
- 3 Graduado de la escuela secundaria (*high school*), diploma de escuela secundaria, preparatoria, o su equivalente (o GED)
- 4 Algunos cursos universitarios o un título universitario de un programa de 2 años
- 5 Título universitario de 4 años
- 6 Título universitario de más de 4 años

57. ¿Es usted de origen o ascendencia hispana o latina?

- 1 Sí, hispano o latino
- 2 No, ni hispano ni latino

58. ¿A qué raza pertenece? Por favor marque una o más.

- ¹ Blanca
- ² Negra o afroamericana
- ³ Asiática
- ⁴ Nativa de Hawai o de otras islas del Pacífico
- ⁵ Indígena americana o nativa de Alaska
- ⁶ Otra

GRACIAS

Cuando haya completado el cuestionario, por favor devuélvalo en el sobre con porte o franqueo pagado.

Appendix:

C. Surgical CAHPS Focus Groups: Determinants of the Quality of Surgical Experiences



AMERICAN INSTITUTES FOR RESEARCH®

Surgical CAHPS Focus Groups: Determinants of the Quality of Surgical Experiences

Prepared for:
THE AMERICAN COLLEGE OF SURGEONS

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JANUARY 22, 2008

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EXECUTIVE SUMMARY

The American Institutes for Research (AIR) and Westat are developing a Cross-Surgical Specialty Version of the Consumer Assessment of Healthcare Providers and Systems (CAHPS) Group/Clinician Specialist Survey. To inform the development of this instrument, AIR is conducting several formative research activities to identify domains of care that are responsible for positive surgical patient care experiences. These activities include conducting focus groups.

Four focus groups (the “initial” groups) were conducted in mid-October 2007, involving 34 participants. These participants were diverse demographically and all but two had undergone a non-emergency, 90-day global surgery within the past 7 months. In response to the project’s Technical Advisory Panel concern that individuals with more “serious” surgeries were not adequately represented in the initial groups, two additional groups (the “major” surgery groups) were conducted in early December 2007, involving 15 participants. These participants were demographically diverse as well. All had undergone non-emergency, invasive “major” 90-day global surgeries within the past two years.

Using a structured interview protocol, all focus group participants were asked about their pre-, peri-, and post-operative experiences with their surgeons and anesthesiologists. They also were asked about the behaviors and characteristics associated with good and poor quality of care from these physicians.

Participants in the major surgery groups tended to have more contact with their surgeons than those in the initial groups. Nevertheless, the same three domains of care were frequently cited by all focus group participants as drivers of good or poor surgical care experiences:

- surgeon’s interpersonal skills and behaviors
- surgeon’s expertise/technical competence
- surgeon’s skill in communicating and providing health information and patient education.

Specific behaviors were identified within each of these domains. For example, specific behaviors related to the surgeon’s interpersonal manner included treating patients with courtesy and respect, being caring and understanding, and listening to the patient.

All patients' experiences with their anesthesiologists were more limited than with their surgeons, and participants in the major surgery groups tended to have more contact with their anesthesiologists than those in the initial groups. Nevertheless, across all groups, similar domains of behaviors were identified as being important for good or poor quality anesthesiologist care.

BACKGROUND

This report presents the results of focus groups conducted to inform the development of a survey about patient surgical care experiences. Patients, practice groups, health plans, and insurers have a need for information about their doctors' performance. Patients can use this information for choice; practices, health plans, and insurers can use this information for quality improvement efforts (potentially incorporating these measures into pay for performance systems). Additionally, specialty boards can (and should) use criterion-based measures as a basis for maintenance of certification.

A variety of CAHPS surveys have been developed to measure quality from the patient's perspective. For example, the existing CAHPS Clinician/Group Adult Specialty Survey provides sensitive measures of important domains of clinician care. But it was developed to measure the domains that are important for an ambulatory care visit. Although much of the care provided by surgeons is in this setting, surgical care is provided in other settings as well. Furthermore, this survey was developed to provide measures for domains of care that were important for a quality office visit, regardless of the purpose of the visit. There are other domains of care that are important for quality surgical care. This project will help ACS develop a CAHPS instrument that is specific to surgical care.

To inform the development of the Surgical CAHPS survey, AIR conducted several formative research activities to identify domains of care that are responsible for positive surgical patient care experiences. These activities included a literature review, analyzing "critical incident" data from a Clinician/Group CAHPS study AIR previously completed, and conducting focus groups. This report presents the results of the focus groups.

METHODS

This section describes the characteristics of the focus group participants, and the approaches used to recruit for, conduct, and analyze the results from the groups.

Recruitment

Recruitment for the focus groups was conducted by two firms that were retained by AIR for this purpose (Nichols Research for the three Palo Alto groups and Shugoll Research for the three DC groups). Both firms used screening protocols to enlist the desired samples. These protocols, which were very similar for the initial and major groups, were created by AIR in conjunction with ACS, and approved by AIR's Institutional Review Board (IRB) (see Appendix A for the protocol used for the initial groups). To enable us to obtain a range of perspectives during the groups and to ensure that the participants would be similar to the anticipated respondents to the survey, specific criteria were established for participation.

For the four initial groups, the criteria were as follows:

- A surgery within the past 7 months that was a "90-day global procedure" (a "major" procedure billing code requiring a 90-day follow up) and involved the use of anesthesia
- A scheduled (non-emergency) surgery
- At least 18 years old

- Able to speak and understand English
- NOT involved in the delivery of health care (i.e., doctor, nurse, therapist, EMT, etc.)

In addition, the recruiting firms were instructed to choose participants that varied with respect to:

- Type of surgery
- Prior experience with surgery
- Gender
- Race/ethnicity
- Age
- Education

For the two major groups, the criteria were the same, except the first criterion was changed to:

- A “major” 90-day global surgery within the past two years, as determined on a case-by-case basis by the ACS Project Officer

Participants

For the initial groups, forty participants were recruited. Across these four groups, six participants did not show up, resulting in a sample of 34. For the major groups, 18 participants were recruited. Across these two groups, 3 participants did not show up, resulting in a sample of 15. Tables 1 and 2 provide information about the 49 focus group participants. Consistent with our recruitment plan, the participants were diverse in terms of their demographics, as well as their surgical experiences. There were no notable differences between the two types of groups other than those that would be expected in terms of their surgical experiences (e.g., the major group participants all had their surgeries in a hospital and stayed overnight at least one night, whereas some of the initial group participants did not).

Procedures

Two initial groups were held on October 15, 2007 and two were held on October 17, 2007. On each day, one group was held in Washington, DC and one group was held in Palo Alto, California. One major group was held on December 5, 2007 in Palo Alto, California and one was held on December 6, 2007 in Washington, DC. Each group lasted approximately 2 hours.

Consent. At the outset of each group, participants were asked to complete a consent form, which was approved by AIR’s IRB (see Appendix B for the form used in the initial groups; the one for the major groups varied only in the participant reason for inclusion and compensation amount). The form outlined the purpose of and procedures involved in the research, risks and benefits, issues related to confidentiality, whom to contact with questions and concerns, and the voluntary nature of participation. It noted that participants would receive compensation for their time and travel expenses (\$100 for the initial groups and \$125 for the major groups). The form also gave permission to audio- and video-record the group.

Table 1. Participant Characteristics

	Initial Groups	Major Groups	TOTAL
Gender			
Male	17	10	27
Female	17	5	22
Age	49.4 (12.4)*	46.3 (13.3)*	48.4 (12.6)*
Race/Ethnicity			
Caucasian	21	12	33
African American	9	1	10
Hispanic	3	1	4
Asian	1	1	2
Education			
High school graduate	3	2	5
Technical/vocational school	0	2	2
Some college	10	3	13
4-year college graduate	7	4	11
More than 4-college graduate	12	4	16
Missing data	2	0	2
Location of index surgery			
Ambulatory care center	5	0	5
Hospital	29	15	44
At least one night in facility			
Yes	14	15	29
No	16	0	16
Missing data	4	0	4
Had surgery prior to index surgery			
Yes	29	12	41
No	5	3	8

*The first figure presents the mean. The standard deviation is presented in parentheses.

Protocol. A trained moderator led each focus group using a protocol that was developed by AIR in cooperation with ACS, and approved by AIR's IRB (see Appendix C for the protocol used in the initial groups; the one for the major groups varied only slightly in the introductory section). The protocol was semi-structured in nature and questions were open-ended to elicit in-depth responses from participants. Each group discussed the following:

- Pre-Surgical Visits
- Admissions Process and Pre-Surgery Interactions
- Anesthesiology
- Surgery and In-Hospital Recovery
- Post-Surgery Visits
- Characteristics of Good and Bad Surgeons

In addition, one initial and one major group in Palo Alto discussed the following topic:

- Survey Experience

For each group, the moderator was accompanied by another AIR staff member who took notes directly onto a laptop computer. (In Palo Alto, this was done from behind a one-way mirror.) In addition, the groups were audio- and video-recorded and these recordings were used for reference to supplement the notes taken in real time.

Table 2. Participants' Surgeries*

INITIAL GROUPS	
<ul style="list-style-type: none"> ▪ Angioplasty (0-day global) ▪ Gastric bypass ▪ Stomach resection ▪ Abdominal myomectomy ▪ Gall bladder surgery ▪ Anal abscess removal (10-day global) ▪ Hernia surgery (2) ▪ Hysterectomy (2) ▪ Appendectomy ▪ Prostate surgery ▪ Ear drum reconstruction ▪ Sinus surgery (expand sinuses and repair deviated septum) ▪ Jaw cyst removal ▪ Thyroid cyst, lymph node, and hyoid bone removal 	<ul style="list-style-type: none"> ▪ Cataract surgery ▪ Shoulder surgery ▪ Back surgery ▪ Hip replacement ▪ Removed hip bursitis and bone spur ▪ Knee surgery (2) ▪ Knee arthroscopy ▪ Knee replacement ▪ Bilateral knee replacement ▪ Foot surgery (3) ▪ Hammertoe foot surgery ▪ Carpel tunnel surgery ▪ General index finger surgery ▪ Fibroid removal ▪ Lipoma removal
MAJOR GROUPS	
<ul style="list-style-type: none"> ▪ Brain surgery (removal of intracranial hemorrhage) ▪ Heart bypass (2) ▪ Pneumonectomy (lung removal) ▪ Gastric bypass ▪ Hemicolectomy and hysterectomy ▪ Ovary removal ▪ Partial colon removal 	<ul style="list-style-type: none"> ▪ Prostate removal ▪ Back surgery (included implanting rods and screws and disc replacement) ▪ Hip replacement (3) ▪ Jaw surgery and bone transplant ▪ Limbsparrix (replacement of arm bone)

*All procedures were 90-day globals except for two, which are noted above. These resulted from screening errors.

Analysis/Summary of Findings. The Project Director, a Senior Research Analyst, and/or a Research Analyst examined the focus group notes in specific topic areas across groups to identify and summarize recurring themes and noteworthy comments. These findings were summarized into a report that was reviewed by these three individuals, the staff who conducted the DC focus groups, and the Principal Investigator. The Project Director modified and finalized the report based on their feedback.

Limitations. The focus group approach seeks to develop insights and direction rather than produce quantitatively precise or definitive results. The findings presented in this report are based on the opinions expressed by participants during the focus groups. Care was taken in presenting the results to give an accurate depiction of the degree to which opinions were shared.

RESULTS

This section summarizes the results from the six focus groups we conducted. Unless indicated, there were no notable differences between the experiences of the participants in the initial groups and the major surgery groups.

Pre-Surgical Visits

Choosing a Surgeon. For both the initial and major groups, focus group participants used a variety of methods to choose their surgeons. The most common method of identifying a surgeon was referral from another health care professional such as their primary care physician, a

specialist physician (one they were seeing for the condition that ultimately required surgery), or a nurse. In most cases, these individuals provided a single referral, but at least two participants reported receiving a list of names and one reported being referred to a multi-surgeon practice. About half of the participants said their choices were limited by their HMO because there was only a single surgeon or a small number of surgeons from which to select in their plan.

The second most common method of identifying a surgeon was referral from a friend, family member, or work colleague. A few participants noted that they had chosen the surgeon for their most recent surgery because the surgeon had previously and successfully operated on them.

Participants varied substantially in the extent to which they sought and used specific information concerning potential surgeons in making their choice. Some simply accepted a referral and did no specific research or thinking about any desired characteristics. Others noted that they used the Internet or other means (a local magazine list of best doctors in specific fields) to find information about their potential surgeon following a referral. This information included years of experience, experience with their particular surgery, and the extent to which there were complaints or suits against the surgeon. Some participants noted that factors related to surgeon availability within desired time frames and geographic convenience influenced their ultimate selection. Finally, a small number of participants noted that the surgeon's manner during initial contacts influenced their choice, both positively (e.g., was comfortable, confident, liked the way questions were answered) and negatively (e.g., did not feel like they were taken seriously).

Surgery-Related Decisions. There was a quite a bit of variability among participants in all six groups in terms of the level and nature of their surgeon's involvement in their surgery-related decisions. Many participants had already decided that they needed surgery before they met with their surgeon for the first time; there was minimal discussion about alternative treatment options because this process had already occurred (for example, with their primary care physician), and the surgeon simply confirmed the need for surgery.

However, many other participants had not yet made a decision prior to their initial visit with the surgeon and said (s)he provided information about treatment options and made recommendations with respect to having surgery. The specifics of this process varied. Some participants said the surgeon indicated they had to have the surgery because their condition was life-threatening or because all other options had been exhausted. Others said the surgeon recommended trying other options first and later indicated surgery was necessary when these things did not work. Still others said the surgery would eventually be necessary, but indicated the timing of the procedure was up to the patient (for example, it could wait until the pain became too bad).

Many participants noted that, once they had decided to have surgery, the details about the surgery often were dictated by their choice of surgeon because they were limited to the facility in which the surgeon worked and when the surgeon was available. No participants mentioned discussions of different surgical approaches. Such decisions seem to have been made entirely by the surgeon.

Other Aspects of Pre-Surgery Experiences. There was quite a bit of variability among participants in terms of their other pre-surgery experiences. Some recounted positive ones, such as receiving information packets about their surgery in advance; being given a number for

someone accessible they could contact with questions (such as the surgeon's assistant); being given the surgeon's email address; having the surgeon walk them through pre-surgery tests; being encouraged to get second opinions; and attending classes about their surgery, where they appreciated the opportunity to learn about their procedure, ask questions, and meet other patients like themselves. Other participants noted negative pre-surgery experiences such as having scheduling problems for pre-surgery tests or the surgery itself, or the surgeon not providing them with enough information, not spending enough time with them, not being clear about what was and was not known about the procedure, or dismissing their concerns.

Admissions Process and Pre-Surgery Interactions

Interactions with Surgeon Prior to Surgery. Most of the participants reported that their surgeon came to see them on the day of their surgery prior to their procedure, and said that this was an important and positive experience. Some noted that their surgeon reviewed their procedure with them and answered any lingering questions during the visit. Almost all said they were reassured by the visit, which they found to be calming and comforting. They noted the importance of the surgeon's manner (kind, nice, joking with them) in helping them feel confident and relaxed going into their surgery. A few participants said they had negative experiences, which were the opposite of the interactions the others felt. For example, one participant reported being treated like "parts" and "not a person." Another felt the surgeon was too "automatic," "clinical" and "cut and dry," and that the surgeon "just wanted to get in and out." Most of the participants who did not see their surgeon right before the surgery said that the surgeon had prepared them for this beforehand and this made it acceptable.

Informed Consent Procedures. Virtually all of the participants remembered completing informed consent forms before their surgery and they were familiar with the term "consent form." Most participants said they completed a consent form the day of their surgery, but many completed it in advance, often at home. Only a few participants said that someone specifically reviewed the form with them, although others said they knew someone was available to answer questions about the form as needed. Most of the participants seemed to view the informed consent process as a formality with little or no real meaning for them. Many noted that they simply viewed it as a way for the medical staff and facility to protect themselves from liability. Notably, one participant reported being unsettled by reading about all the things that could go wrong with the surgery, and another reported being so "out of it" (due to pre-surgical sedation) when she was asked to complete the form that a family member forged the signature on the form.

Safety Procedures. The vast majority of participants reported experiencing various safety procedures in relation to their surgery, such as marking of the surgery site, being asked what procedure they were there to get, and staff checking the participants' wristbands to verify who they were before administering medications. The vast majority felt very positive about these procedures, noting that they were reassuring or comforting. However, a small proportion of participants viewed these procedures negatively, reporting that they were irritating, just a way for the staff/facility to protect themselves, or as a reflection of poor communication among staff (being repeatedly asked the same questions by different people). One participant said it would have been helpful if someone had told her why different people kept asking the same question.

Anesthesiology

Pre-Surgery Experiences. All participants were anesthetized before their surgery and nearly all reported that an anesthesiologist was responsible for providing the anesthesia. Only two participants remembered their anesthesiologists' names. One patient commented on how this was embarrassing: Her life was in the hands of this person and she didn't remember his name!

Most of the participants met with their anesthesiologist right before surgery (between 15 minutes to an hour before their surgery took place). However, some met their anesthesiologist prior to the day of surgery. For example, one person had a pre-operative appointment with the anesthesiologist because of her family's medical history of metabolizing and absorbing drugs quickly. The anesthesiologist was able to put her at ease and provided some useful tips to prepare her for surgery (eat protein but not carbohydrates because protein facilitates healing). Compared to the initial groups, a greater proportion of participants in the major surgery groups met their anesthesiologist prior to the day of surgery.

Nearly all participants reported positive experiences with their anesthesiologists prior to surgery: variously describing their anesthesiologists as talkative, personable, warm, accommodating, and flexible. These anesthesiologists tended to take time to chat with the participants, answer their questions, and attend to their feelings, which made the participants feel comfortable and valued. In fact, one participant noted that the anesthesiologist was one of the most important people to whom she talked. Another participant reported that the anesthesiologist spent more time with her than the surgeon did.

While the vast majority of participants reported positive experiences with their anesthesiologists before surgery, a few reported negative experiences. For example, one indicated she would have liked more information from the anesthesiologist beforehand because she had a bad reaction to the anesthesia after the surgery. Another would have liked to be consulted by his anesthesiologist when the first anesthesia procedure did not work. Yet another described the anesthesiologist as "too nice," because he let the participant pick the type of anesthesia used and then there were complications. The participant thought this would not have happened if the anesthesiologist had made the choice. In addition to the small number of negative experiences, a few participants noted more neutral interactions with their anesthesiologists such as being asked about allergies or prior problems "going under" with anesthesia.

Written Permission Forms. Most participants signed a written permission form before being anesthetized, but many did not read it because of timing. For example, some participants were asked to sign the form right before surgery and either did not have their glasses, were too "out of it" at that point to read it, or thought it did not matter because they were already committed to the process. A few participants were provided with the information on the form (such as potential side effects) verbally before signing it.

The majority of participants signed separate forms for the surgery and anesthesia procedures. Some participants said they preferred separate forms because it provided them with more information about each procedure that way. However, others felt that there was no need for separate forms because the two forms included the same type of information.

Post-Surgery Experiences. Some participants had contact with their anesthesiologist after surgery, whereas others did not. In some cases, the anesthesiologist came to check on them while they were in recovery and in other cases, participants received phone calls from their anesthesiologist. Most participants reported that these interactions were positive. For example, one said “*mine [the anesthesiologist] stayed until 3 in the morning to make sure I was sleeping okay and I wasn’t getting sick.*” Another participant said: “*Mine also called, which I thought was a nice touch.*”

Characteristics of Good and Bad Anesthesiologists. Participants in five of the groups were asked to describe the characteristics of both good and bad anesthesiologists. (One of the major surgery groups did not have time to complete this exercise.) Frequently reported characteristics of good anesthesiologists included:

- Is aware of your medical history and asks questions about it
- Is able to listen and answer questions
- Is experienced and knows how to perform job well (e.g., does not over- or under-dose)
- Projects competence and confidence; is professional
- Explains what the procedure entails; is informative; is easy to understand
- Has rapport with the surgeon
- Is caring, empathetic, reassuring, and supportive
- Is relaxed and tries to put you and family members at ease
- Is approachable and responsive to your needs; takes time with you
- Is personable and respectful

Characteristics of bad anesthesiologists included:

- Is rushed (e.g., does not read your chart, does not know your medical history)
- Is inexperienced and incompetent (e.g., causes pain or provides too much anesthesia)
- Is intolerant and insensitive (e.g., does not believe patient experience)
- Does not take off mask when speaking to you; is cold or mechanical
- Lectures about other health issues (e.g., high blood pressure) while the patient is waiting for surgery
- Does not check on you before or after surgery

Surgery and In-Hospital Recovery

Awareness of Operative Team. Some participants were able to identify some or all of the members of their operative teams, usually their surgeon, anesthesiologist and one or more nurses. But most participants noted that they had limited awareness of who was present because there were too many people to remember, they were “out” before they went into the operating room, or they were put “out” shortly after entering the operating room and thus could not be sure who may have come in and out during the procedure. Some participants noted that they were introduced to at least some members of the operative team by their primary surgeon in the pre-operative room or just before surgery began. Two reported that they did not care who was in the room as long as the surgery was done properly.

Most participants had at least some awareness of the fact that a team of individuals was responsible for their peri-operative care, and generally agreed that they displayed positive aspects of teamwork. Nonetheless, there was little, if any, evidence that patients could be knowledgeable informants to survey items that ask about teamwork in the operating room. The participants who were able to comment on surgical team behaviors often based their judgments on factors that were not necessarily indicators of surgical teamwork. Table 3 lists some of the behaviors reported by participants that they viewed as being indicative of positive teamwork.

Table 3. Reported Behaviors Indicative of Positive Teamwork

<ul style="list-style-type: none"> ▪ Efficiency of activities going on around the patient <i>"They all knew their role"</i> ▪ Familiarity with one another ▪ Introduction to patient ▪ Joking, laughing 	<ul style="list-style-type: none"> ▪ Smiling, cordial ▪ Talking to one another in a calm and collegial way ▪ Trust in one another explicitly expressed
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In-Facility Post-Surgery Visits from Surgeon. Participant reports were mixed with respect to communications with their surgeon after their procedure and before they left the facility where the surgery was performed. While most reported that their surgeon came to see them, particularly in the major surgery groups, many said the surgeon did not come to see them or an assistant visited them. Some participants noted that their surgeon came to visit them several times, whereas others noted that they would have liked their surgeon to visit more during the post-operative period. Participant reports suggested that having their surgeon visit was important:

"When the doctor comes in and puts a hand on your shoulder, that is huge – to check how you are doing..."

"I didn't get to see my surgeon after surgery, although I wish I would have."

"I was there four days after surgery, he came once briefly, looked at my chart, moved on. I was disappointed. I hoped he would at least visit each day and look at my progress."

Many participants described these encounters positively, saying that they were provided with information about the procedure itself, reassured about the results of the surgery, and given information about what to expect moving forward. A few noted negative interactions, particularly in one of the major surgery groups, such as a surgeon abruptly and aggressively removing tubes, a surgeon being insensitive (not looking a homosexual participant's partner in the eye), an unknown surgeon telling a participant he had assisted on her surgery due to a complication that her surgeon had not yet told her about, and having two surgeons who had worked on a participant during her procedure "dueling" over who was in charge of her post-operative care.

Several participants in the initial groups noted that the timing of the visit from their surgeon was important, reporting that visits immediately or very soon after surgery were too soon because they were not able to communicate and understand what the surgeon was explaining to them.

“I was just happy to not have to deal with anything. He talked to my wife who was not on drugs...I couldn't have had a conversation.”

“Every surgeon that I have spoken with, essentially I am still out. It is not very effective, but they need to see you just after [surgery], but they should see you before you are ready to leave so that you can understand what they say before you leave.”

In addition to surgeons, participants saw other staff during their post-surgical time in the facility where the procedure was done including nurses, assistants, and residents. These staff generally assessed the patient's progress and reported this information back to the surgeon. Notably, a number of participants in both the initial and major surgery groups, mentioned that in-facility post-surgical visits with surgeons and other staff were sometimes stressful because they were pressured to make progress (for example, to walk or stand on their own), leave the hospital, or go home instead of to a rehabilitation facility.

Communication with Family Members. Many participants reported that their surgeon communicated with their family or friends shortly after their surgery, and most said these communications were experienced positively. In general, the surgeon reported that the surgery had been completed, explained what had been done, and answered any questions. They also provided generally calming, reassuring, and supportive messages to the patient's family or friends. In a few cases, participants noted that this information and reassurance was provided by a staff member other than the surgeon (such as a nurse).

Post-Operative Expectations and Pain Care. Most participants said they thought they had been well prepared (via conversations with their surgeon and his or her staff, written materials) and knew what to expect post-operatively. However, many were still surprised by unexpected issues such as weakness, complications, pain, and unforeseen delays on the day of surgery.

Nearly all of the participants reported receiving good care with respect to pain control. One person was denied morphine from a nurse, but asserted that they were still in intense pain and asked someone else for help who was able to provide the pain medication. Participants generally reported that nurses were responsible for treating their pain in the sense of providing them with medications; however, they noted that the surgeon was the person who actually prescribed or changed their medication regimen. A couple of participants in one of the major surgery groups said they had been given adequate medications for pain control, but had difficulty weaning themselves off them. Both would have liked more guidance and support in this regard.

Post-Surgery Visits

Post-Surgery Contact with Surgeon. Most participants reported that they had at least one contact with their surgeon after leaving the facility where they had their surgery. The participants in the major groups tended to have more post-surgery contacts with their surgeon than those in the initial groups. Patients typically had their only or initial post-surgery visits 1-4 weeks post-surgery. In general, those who saw their surgeon multiple times required repeat visits as part of the standard of care (for example, to get a cast changed or wires removed) or because they were experiencing complications.

Most participants reported positive post-surgery interactions with their surgeons. These visits typically involved removing stitches or wires, assuring patients of their progress, addressing complications, and answering questions. Participants responded favorably to surgeons they viewed as caring, kind, confident, cordial, interested in them, engaged, and responsive to their efforts to contact the surgeon and ask him or her questions.

However, a few participants reported difficulties and challenges they faced in their post-surgery contacts with their surgeon. These included the following:

- **Having to initiate post-surgery contact with surgeon** - *“I did not have contact with my office or doctors for weeks. I had to call them and ask when my follow-up appointment was...that was disappointing.”*
“It was weeks before I saw the doctor. I had to initiate contact.”
- **Impersonal treatment** - *“I wasn’t getting any support from the surgeon. My feeling was that he viewed our relationship as only the surgery and then it’s over... [he told me] that I didn’t need him anymore, unless I need further surgery. He literally said ‘We’re done.’”*
“I felt like my surgeon was a mechanic and after the surgery he was done.”
- **Insensitivity to or lack of awareness of complications and side effects** - *“I think he lacks sensitivity...[It was unclear if he took concerns seriously] he keeps saying that he thinks that everything is going to be okay.”*
“I wish my surgeon knew more about side effects... the first month, I [had side effects]. He didn’t gauge what was happening to me.”

Surgeon’s Communication with Other Providers. A few participants said their surgeon reported the results of the surgery to other healthcare providers involved in their care, such as a physical therapist, primary care physician, or cardiologist. Participants in one of the initial California groups noted that the electronic medical record (EMR) used by their surgeons was part of the same system used by their other providers. Thus, when the surgeon entered information on the surgery into their EMR, all of their other providers could access the information.

Surgeon Characteristics and Voting Exercise

Characteristics of Good and Bad Surgeons. Towards the end of each group, participants were asked about to tell us their views on the characteristics of good and bad surgeons. Table 4 contains each group’s responses concerning the characteristics of good surgeons. Consistent with participants’ reports in the individual sections of the focus group and across both types of groups, the most frequently mentioned characteristics concerned the surgeon’s interpersonal manner, expertise/technical competence, and skill in communicating or providing health information and patient education. All six groups emphasized the importance of the surgeon’s interpersonal skills and behaviors, noting characteristics such as having a good bedside manner and being personable, caring, empathic, sensitive, gentle, and understanding. Five of the groups emphasized the importance of factors related to the surgeon’s expertise and technical competence, noting characteristics such as being knowledgeable, competent, thorough, and

experienced. Four of the groups emphasized the importance of communication and providing health information and patient education, noting characteristics such as soliciting questions and concerns, providing realistic information, and explaining things in laymen's terms.

Table 5 contains participants' views on the characteristics of bad surgeons. Less time was spent on delineating the characteristics of bad surgeons; therefore, a smaller number of characteristics are listed. Nevertheless, it is evident that similar types of characteristics emerged, with problems related to interpersonal manner (being abrupt, detached, rude, insensitive, dismissive, etc.), expertise/technical competence (being inexperienced, sending home too soon, etc.), and communication of information and patient education (not being clear about risks and side effects, bad or lack of communication with patient and staff, etc.) being the characteristics most frequently mentioned.

Voting Exercise. After generating lists of the characteristics of good and bad surgeons, the participants in each group were provided with pre-printed lists of characteristics of surgeons. They were asked to independently vote on the five characteristics that were most important to them in choosing a surgeon (by circling the items on the pre-printed list). They also were told they could add items to the pre-printed list if desired, for example, from the list of characteristics the group had just generated. The results of the voting exercise are provided in Table 6. Notably, but perhaps not surprisingly, having good surgical skills was the characteristic that received the most votes, with more than three quarters of the participants voting for it. Beyond this, a review of the ten characteristics receiving the most votes reveals that the results were fairly similar to those obtained in the previous exercise, with participants focusing on items related to the surgeon's interpersonal manner, expertise/technical competence, and communication of information and patient education skills. Also, while there were some differences in relative emphasis, the top ten characteristics in the initial and major surgery groups were nearly identical.

Table 4. Characteristics of Good Surgeons by Group

INITIAL GROUPS				MAJOR GROUPS	
Group 1	Group 2	Group 3	Group 4	Group 5	Group 6
	• Personable	• Personable			
• Understanding • Truthful with patient, but kind	• Empathy/warmth • Validate your concerns	• Caring • Empathetic • Sympathetic	• Cares about me	• Sensitive to patient's pain • Compassionate	
• Able to relate to patient/ communicate with them	• Meets you on your own level, don't talk down to you		• Can communicate with me		
	• Treats you as only person in room/focuses on you	• Focused on patient • Personal interaction (there is an emphasis on creating a one-on-one interaction with the patient)	• Good listener	• Focused on patient; not distracted • Two way communication-listens to patient	• Takes time to listen.
• Good bedside manner	• Good body language - calm competence • Sense of humor • Gentle/Calm	• Speaking slowly	• Talks at eye-level • Shakes hand	• Good bedside manner	• Good bedside manner-reassuring, holds patient hand, hugs patient
• Understanding of the patient; including culturally aware of the patient		• Focus on you (patient) as a person, your personal case	• Takes interest in your life, hobbies - and understands how this relates to recovery	• Aware of patient's circumstances	
	• Accept you challenging them without anger/frustration • Ego doesn't get in the way • Patient with patient			• Humility	
	• Respectful of patient and family				

Table 4. Characteristics of Good Surgeons by Group (cont.)

INITIAL GROUPS				MAJOR GROUPS	
Group 1	Group 2	Group 3	Group 4	Group 5	Group 6
• Experienced		• Experienced	• Has experience performing that kind of surgery	• Experienced	• Experienced
• Knowledgeable • Thorough • Professional • Well-recommended		• Up on current research • Organized • Modern		• Professionalism • Thorough • Good man; has the respect of co-workers and others	• Good educational background • Good reputation
• Competent		• Competent			
• Confident		• Confident			• Confident
	• Educate you about what they're doing and what to expect • Tell you what will happen re: pain in post-surgery period • Give realistic info about recovery time • Make sure patient has adequate post-surgery support • Give appropriate meds for post-surgery period and in timely fashion		• Takes time to describe what is going to happen • Offers alternatives to surgery	• Before surgery, explain what is going to happen • Post-operatively, tells patient what (s)he is going to do before doing it	• Takes time to explain things.
	• Answers questions in laymen's terms, gives things like diagrams and pictures to explain, give you all the info you want			• Answers questions	
	• Solicit questions and concerns			• Advocate for patient through system	• Empowers patient

Table 4. Characteristics of Good Surgeons by Group (cont.)

INITIAL GROUPS				MAJOR GROUPS	
Group 1	Group 2	Group 3	Group 4	Group 5	Group 6
			• Takes time to evaluate surgery		
• Accessible - able to get a hold of • Good relationship and communication with nursing staff; including being accessible to them				• Available	• Accessible
		• Punctual			

Table 5. Characteristics of Bad Surgeons by Group

INITIAL GROUPS				MAJOR GROUPS	
Group 1	Group 2	Group 3	Group 4	Group 5	Group 6
<ul style="list-style-type: none"> • Rude • Impolite • Insensitive • Uncaring • “Antisociable” – doesn’t take time to talk to you • In a rush with their information • Asking patient if you can afford him/her • Lack of knowledge • Inexperienced • Bad communication with patient and nursing staff • Don’t follow up with you • Over-optimistic • Passes you on to someone else (e.g., another surgeon) • Doesn’t tell you about other treatment options 	<ul style="list-style-type: none"> • Not emotionally connected to patient/detached • Don’t talk to patient • Sending home before ready • Keeping longer than want to be in hospital • Inaccessible 	<ul style="list-style-type: none"> • Insensitive/derogatory • Abrupt • Cocky • Impatient • Sexist (doesn’t deal with gender specific issues in a sensitive manner. In this case, the participant had gone through a gynecological surgery and felt like her surgeon did not sympathize with her concerns/questions about the procedure) • Distracted/allows interruptions (for example, takes phone calls during pre-/post-op meetings with patient) • Has a God complex • Won’t acknowledge own mistakes/blames patient (post-op) • Won’t address complications (post-op) • Fast-talking • Hard-to-reach 	<ul style="list-style-type: none"> • Talking on phone during appointment • Being physically insensitive • Doesn’t admit medical errors • Says “I told you so” for post-op complications (especially unforeseen ones or ones the surgeon did not prepare the patient for beforehand. In this case, the participant had not been told that she would have arthritis after the surgery but the surgeon claimed otherwise) • Not being clear about risks/side-effects beforehand • Unprepared (for appointments) • Late for surgery • Unwillingness to admit mistakes, unwillingness to refer to other doctors • Bad communication with staff 	<ul style="list-style-type: none"> • Not compassionate • Arrogant/godlike/cocky • Dismissive • Disrespectful • Assembly line attitude • Talks about patient as if (s)he is not there • Uses third person • Lack of communication with patient • Lack of interest in pain management 	<ul style="list-style-type: none"> • Bad attitude • Cocky • One up-one down relationship • Don’t listen • Don’t have time • Hard to communicate with; doesn’t communicate • Can’t get ahold of them • Explain things in only medical terms; don’t use simple terms

Table 6. Results of Voting Exercise Concerning the Most Important Characteristics in Choosing a Surgeon

Characteristic	INITIAL GROUPS					MAJOR GROUPS			OVERALL
	1	2	3	4	TOTAL	5	6	TOTAL	TOTAL
Number of participants	8	10	9	7	34	8	7	15	49
PRE-PRINTED ITEMS									
Good surgical skills	7	6	7	6	26	7	6	13	39
Involves patient in making choices about treatments	3	5	5	5	18	3	2	5	23
Treats patient with courtesy and respect	3	2	1	6	12	4	4	8	20
Takes time to answer patient's questions	3	4	4	5	16	3	1	4	20
Prepares patient well for surgery	3	3	5	3	14	3	2	5	19
Listens carefully to patient	3	3	2	3	11	3	4	7	18
Answers questions clearly	4	4	1	1	10	2	5	7	17
Provides good follow-up care	5	1	6	1	13	0	3	3	16
Prepares patient well for post-surgical recovery	2	5	2	2	11	2	1	3	14
Makes patient comfortable discussing things	1	6	2	0	9	1	1	2	11
Good support staff to help with recovery process	2	1	1	0	4	4	1	5	9
Responds to questions or complaints quickly	1	3	1	0	5	4	0	4	9
Uses diagrams, models, or videos to explain things	2	1	0	1	4	1	1	2	6
Good support staff to deal with administrative questions	0	1	2	0	3	0	1	1	4
Sees patient on time	0	0	1	1	2	0	1	1	3
Provides materials to help answer patient's questions	0	0	1	1	2	0	1	1	3
Warm and friendly staff	0	2	0	0	2	0	0	0	2
Conducts office visits quickly and efficiently	1	1	0	0	2	0	0	0	2
Helps patient gets follow-up care from other providers	0	1	0	0	1	1	0	1	2
Courteous and respectful staff	0	1	0	0	1	0	0	0	1
WRITE-IN ITEMS									
Treats patient as individual	0	0	1	0	1	0	0	0	1
Experience (Surgeon has experience)	0	0	1	0	1	0	0	0	1
Easy to reach	0	0	1	0	1	0	0	0	1
Recommended by other specialist	0	0	0	0	0	1	0	1	1
Has confidence in his/her ability	0	0	0	0	0	0	1	1	1

Survey Experience

Feelings about Survey Completion. Participants in two of the focus groups (one initial and one major group) were asked how they would feel about completing a survey about the quality of their surgery experience. (The other four groups ran out of time to cover this section.) Nearly all of the participants who were asked this question felt positively about completing such a survey. For example, one person noted that it is good to complete a survey about your surgery experience if it improves care. The participants' responses were equally favorable about a mail survey or a web-based survey.

A few participants expressed concerns about anonymity, worrying that their surgeon might read the survey responses. Two participants expressed particular concern about completing a survey about their surgeon while they were still in treatment if the surgeon was going to be provided with their responses right away. Another participant suggested that surveys should not be administered right after surgery, "because it is too soon to know how everything is, so you say everything is fine." A few participants noted that the length of the survey would influence their willingness to complete it. Finally, one participant said that her willingness to complete the survey would be influenced by whether or not it was from "a good source."

CONCLUSIONS

Three domains of care were frequently cited by participants in all groups as drivers of good or poor surgical care experiences:

- surgeon's interpersonal skills and behaviors
- surgeon's expertise/technical competence
- surgeon's skill in communicating or providing health information and patient education

Specific behaviors were identified within each of these domains. For example, behaviors related to the surgeon's interpersonal manner, such as treating patients with courtesy and respect, being caring and understanding, and listening to the patient were mentioned and can serve as the bases of survey items.

Similar behaviors were identified as being important in terms of being associated with good versus poor quality of anesthesiologist care. However, patient experiences with anesthesiologists were more limited than with their surgeons, particularly in the initial groups. They typically were restricted to interactions that occurred only on the day of surgery, limiting the range and type of experiences that can be asked about in the survey (relative to the care provided by other surgeons).

The identified domains and specific quality of care-related characteristics will be used to inform the development of the ACS Surgical CAHPS survey items.

APPENDIX A:
AIR SURGICAL CAHPS FOCUS GROUPS
RECRUITMENT CRITERIA AND SCREENER

AIR Surgical CAHPS Focus Groups Recruitment Criteria and Screener

Recruitment Criteria

- ◆ 4 groups, schedule 10-12 participants per group (to get a total of 36 participants) (*Discuss number to over-recruit with recruiting firm. If these are from their panel, they will be able to provide a reasonable estimate of the extent of over-recruitment required.*)
- ◆ 2 groups will be held in AIR's Palo Alto office and 2 will be held in AIR's 100TJ office in Georgetown
- ◆ Eligibility requirements:
 - Surgery within the past 6 months.
 - Surgeries generally involve the administration of some form of anesthesia (e.g., unconscious sedation, conscious sedation, spinal block). Surgeries do NOT include simple, in-office procedures such as a mole removal or colonoscopies. Dental surgeries are NOT included. Laser eye surgeries, C-sections, and arthroscopies are eligible surgeries.
 - Scheduled surgeries only. Emergency surgeries are NOT included.
 - Participants must be at least 18 years old.
 - Participants must be able to speak and understand English.
 - Participants must NOT be involved in the delivery of health care (i.e., doctors, nurses, therapists, EMTs, etc.)

Diversity requirements

- Must include a mix of different types of surgeries
- Must include a mix of people with different levels of experience with surgery
- Approximately equal numbers of males and females
- Must include different racial/ethnic groups
- Must include a range of ages
- Must include individuals with different levels of education

Opening

Good Morning/Afternoon/Evening, this is [INSERT NAME] from xxx, a professional market research firm. We are recruiting people who have recently had surgery to participate in focus groups about their experiences. This information will be used to develop a survey to assess the care provided by surgeons.

The project is being conducted for the American College of Surgeons. Participants will receive \$100 for participation in a two-hour focus group. This study is strictly for research purposes; nothing is being sold.

I just have a few questions to see if you're eligible and I'll only take a few minutes of your time.

Screening Questions

1. Do you work in the field of health care? For example, are you a physician, nurse, or therapist?

- Yes
No --> **I'm sorry, but people who work in the health care field are not eligible to participate. Thank you for your time.**

2. Have you had surgery within the past six months; that is since [DATE]?

- Yes
No --> **I'm sorry, but we're only recruiting people who had surgery within the past six months, so you're not eligible. Thank you for your time.**

3. What kind of surgery was this?

CHECK TO DETERMINE IF APPROPRIATE TYPE OF SURGERY.

IF NECESSARY, PROBE ABOUT THE USE OF ANESTHESIA – Were you given any anesthesia as part of the procedure? That is were you given something to block the pain, help you relax, or cause you to sleep during the procedure such as a pill, an injection, or something to inhale?

- Yes No

IF YOU ARE UNSURE IF APPROPRIATE TYPE OF SURGERY, SAY: I'm not sure if this is the sort of surgery in which they are interested. I'll check with my supervisor. But, let me continue in case you're eligible for participation.

4. Was this emergency surgery?

- Yes, emergency surgery --> **I'm sorry, but people who had emergency surgeries are not eligible to participate. Thank you for your time.**
No, scheduled surgery

5. Have you previously had any other surgeries?

- Yes No

6. How old are you?

(Record years, mark box, and proceed as indicated)

_____ Less than 18 years --> **I'm sorry, but we're only recruiting people who are over age 18. Thank you for your time.**

7. What is your race/ethnicity? *(Read options)*

- White
 - Black or African American
 - Hispanic or Latino
 - Asian
 - Native American
 - Pacific Islander
 - Other (please specify):
- _____

8. Gender **[DO NOT ASK]**

- Male
- Female

Closing

CHECK TO SEE IF RESPONDENT IS ELIGIBLE AND IS NOT A MEMBER OF A GROUP THAT IS OVERREPRESENTED IN RECRUITING.

IF YOU ARE UNSURE OF THE TYPE OF SURGERY SAY:

I'm not sure if your surgery is a type of surgery that we're interested in. I'll check with my supervisor. If it is, what's the best way for me to get in touch with you? GET CONTACT INFORMATION, THANK THEM FOR THEIR TIME, AND END.

IF RESPONDENT IS A MEMBER OF AN 'OVER-RECRUITED GROUP' SAY:

We need to have a diverse group of people and the focus group -- and, it looks like we've got enough people like you. However, if someone cancels, what's the best way for me to get in touch with you? GET CONTACT INFORMATION, THANK THEM FOR THEIR TIME, AND END.

IF THEY ARE ELIGIBLE AND NOT A MEMBER OF AN 'OVER-RECRUITED' GROUP SAY:

You're eligible to participate. We're going to have our focus groups on [DATES and TIMES] at [LOCATION]. Can you come at (either of these times/this time)? IF RESPONDENT DOESN'T SAY YES OR HESITATES...We're doing this to find out what's important for people when they are treated by surgeons and anesthesiologists. Everything you say will be confidential. And, you will receive \$100 for participating in this 2 hour focus group.

IF THEY AGREE TO PARTICIPATE SAY:

Great, let me get your contact information, and schedule you for one of the groups.

- Get contact information and write in below
- Use scheduling sheet to schedule group

CONCLUDE WITH:

Please arrive 15 minutes early since the group will begin promptly.

If Palo Alto - The group will be held at the AIR office in Palo Alto, which is at 1070 Arastradero Rd., Suite 200. AIR is a not-for-profit research company that will be conducting the groups for the American College of Surgeons.

If Georgetown – The group will be held at the AIR office in Georgetown, which is at 1000 Thomas Jefferson Street. AIR is a not-for-profit research company that will be conducting the groups for the American College of Surgeons.

I'll send you directions and information about who to contact if you have any questions. Would you prefer that we send this information by regular mail or email?

- Regular mail
- Email

We'll remind you of the focus group the day before. What's the best number to reach you at? (Mark with asterisk on contact information.)

If something happens and you will not be able to attend the group, please call me at xxx so I can find an alternate. Thanks again.

CONTACT INFORMATION

INTERVIEWEE NAME: _____

ADDRESS: _____

CITY, ST, ZIP: _____

E-MAIL: _____

PHONE NUMBER: [DAY] _____ [EVE] _____
[CELL] _____

RECRUITED BY: _____

APPENDIX B:
AIR SURGICAL CAHPS FOCUS GROUPS
CONSENT FORM

Consent Form for Focus Groups about Surgical Care

Purpose

The American Institutes for Research[®] (AIR) is working with the American College of Surgeons (ACS) to develop a survey to assess the quality of surgical care. As part of developing the survey, AIR is conducting focus groups to learn about:

- people's experiences with surgeons, surgical staff, and anesthesiologists
- things that determine the extent to which these experiences are positive or negative
- people's preferences related to completing a survey about surgical care

Procedures

You have been selected to participate because you recently had surgery. If you participate, you will be asked to take part in a group discussion with about 8-10 people. The discussion will cover various topics related to your surgery experience, such as pre- and post-surgery visits with your surgeon, what the admission process was like when you had your surgery, and interactions you had (if any) with an anesthesiologist.

A notetaker will be observing the session and people who are working with ACS on this project may also be observing to learn about people's perceptions of good and bad surgical care. Depending on the location of your group, these people may be observing from behind a one-way mirror. The group will be videotaped and it will last about 2 hours.

Risks

The possible risks for you from being in this study are minimal, and we have taken steps to minimize them. You may find it mildly inconvenient to participate because of the time and travel expenses involved, but you will be paid \$100 to reimburse you for these expenses. Also, you may have some concerns about confidentiality as you will be videotaped, but your identity and the information collected from you will be treated in a confidential manner, as is described below.

Benefits

Although this is not a direct benefit to you, this study will ultimately result in the development of a survey that will help improve the quality of surgical care.

Confidentiality

We will keep your identity and the information you supply confidential and share it only with people who have agreed to keep it confidential, such as project staff and study sponsors. All data (i.e., session notes, video-recordings) will be recorded with code numbers in place of your name. A data file that links you with your code number will be kept in secured files separate from the data (i.e., locked for hard copy and password protected for electronic files).

With your permission, we will be video-recording the group session for reference, to ensure accuracy in capturing people's thoughts and reactions. The recordings will be destroyed at the end of the project. However, we may retain parts of recordings, or occasionally full recordings, to be used only for educational or research purposes.

Information that would identify you will be disclosed only with your specific written permission. Any data that will be included in AIR reports to the ACS and any data that may be published (e.g., in scientific journals) will not reveal your identity.

There may be times when federal or state law requires disclosure of study data (e.g., through a court subpoena). This is extremely unlikely, but if it ever happens, we will make every effort to protect your personal information.

More Information

Your participation in this study is completely voluntary. You can refuse to participate or discontinue your participation at any time without penalty.

If you have questions about this study, you can contact the Project Director, Andrea S. Burling, Ph.D. at ABurling@air.org, 650-843-8159, or c/o AIR, 1070 Arastradero Road, Suite 200, Palo Alto, CA 94304.

If you have concerns or questions about your rights as a participant, you can contact AIR’s Institutional Review Board (which is responsible for the protection of study participants) at IRB@air.org, toll free at 1-800-634-0797 or c/o AIR, 1070 Arastradero Road, Suite 200, Palo Alto, CA 94304.

Informed Consent

By signing this form you are indicating that you have read and understood the information provided to you about your participation in this evaluation, that you grant permission for the use of your video-recording for educational and research purposes, that you have had your questions answered, that you have decided to participate based on the information provided, and that a copy of this form has been given to you.

Print Name: _____

Signature: _____ Date: _____

APPENDIX C:
AIR SURGICAL CAHPS FOCUS GROUPS
DISCUSSION GUIDE

Discussion Guide: Surgical Patients

October 10, 2007 draft

Design Basics

Purpose

- Obtain input from surgical patients about the determinants of a good and bad experience with their surgeon and his or her staff. We are also interested in the key factors they consider in choosing a surgeon and in deciding whether or not to recommend a particular surgeon to others in order to learn more about the aspects of care delivery that are associated with good and bad experiences.
- Identify the determinants of positive and negative experiences with anesthesiologists. In addition, determine the nature and extent of their interactions with anesthesiologists.
- Obtain input about patients' experience taking surveys, preferences for different modalities (mail vs. internet, and suggestions for enhancing survey response rate).

Structure of Focus Groups

- 4 focus groups
- Two focus groups are being conducted at the AIR Palo Alto office; two at the Georgetown office.
- 2 hour sessions; financial incentives for participation (\$100)

Outline

Part 1: Opening and ground rules	10 minutes
Part 2: Pre-Surgical visits	20 minutes
Part 3: Admissions Process/Pre-Surgery	15 minutes
Part 4: Anesthesiology	20 minutes
Part 5: Surgery/In-Hospital Recovery	20 minutes
Part 6: Post Surgery	15 minutes
Part 7: General Items and Voting Exercise	15 minutes
Part 8: Survey Experience	10 minutes

(5 minutes over. Will need to be slightly under in some parts.)

Logistics / Equipment

- Food (snacks plus appropriate beverages)
- Consent forms
- Incentive forms
- Incentives in envelopes
- Pads, paper, flipchart, markers, name tents
- Pre-written/printed flip chart and handout sheets for voting exercise
- Audio/Video recording equipment

PROTOCOL

PART 1: OPENING AND GROUND RULES	10 minutes
---	-------------------

As participants arrive, show them location of restrooms and where to get refreshments. While they wait, ask them to review/sign the consent form.

Start as close to scheduled starting time as possible—do not wait for late-arrivals

Introductions

- Well let's begin. My name is [NAME].
- The American College of Surgeons is a scientific and educational association of surgeons. They work closely with representatives of all surgical specialties to improve the quality of care for surgical patients through the Surgical Quality Alliance.
- We've been asked by the Surgical Quality Alliance to conduct these focus groups to help identify what aspects of quality care should be asked about in a survey of patients who have had surgery. They want us to ask about the things you think surgeons and their staff should be doing and the ways you think surgeons and their staff should be treating their patients. Since you all have recently had a surgery, you're the experts who can tell us this. That's why we're here.

Ground Rules

I'd like to begin by setting some ground rules for this session.

- As you may have noticed, this session is being videotaped. The tapes will be used for analysis only and possibly shared with other team members. Everything said here is considered confidential. To help insure confidentiality, we will only be using your first names.
- Please set your pagers and cell phones to "vibrate."
- No side conversations please
- We'll need to move along – we have a lot to talk about and want to hear from everyone. There won't be enough time for long stories or full discussions of every topic. So please understand that when I ask that we move to a new topic or speaker, I don't mean to be rude.
- Finally, a bit about my role: I am here to get your opinions and feelings about what things are important to you and what kinds of surveys would help to get this information. I also want you to know that I am a research doctor -- not a medical doctor. I can't give you any medical advice -- other than to discuss your health questions with your physician.
- I'd also like to introduce [PERSON.] [FIRST NAME] also works for AIR and is here to take notes.

Housekeeping

Finally, a couple of housekeeping issues:

- Our discussion will last from [TIME] to [TIME]. To maximize discussion time, there will be no formal breaks.
- If you need a quick break, the restrooms are _____.

Does anybody have any questions about ground rules or logistics for this session?
IF THERE WILL BE OBSERVATION OF GROUP BY ACS MEMBERS OR OTHERS,
INFORM PARTICIPANTS OF THIS.

Warm-up discussion

I'd like to begin by asking each of you to introduce yourself.

- First, please share with us
 - (1) your first **name**
 - (2) the **city** in which you live
 - (3) about how long it's been since you had your most recent surgery

PART 2: PRE-SURGICAL VISITS

20 MINUTES

1. I'd like to start by talking about how you picked your surgeon. How did you do this?

What were you looking for in a surgeon? What else?

What, if anything, were you trying to avoid? Anything else?

2. To what extent was the surgeon and his or her staff involved in your decision to have the surgery?

How were they involved? What did they say or do?

3. Did you talk with the surgeon and his or her staff about other possible treatments besides surgery or not?

Tell me about these discussions -- and how you felt about them.

4. After a decision to have surgery has been made, there are usually many other decisions to be made. These can include things like when the surgery will be scheduled, where it will be, and details about how the surgery will be performed.

How do you decide things like when and where the surgery would be? In what ways, if any, were the surgeon and his or her staff involved in making these choices?

5. What else happened in your visits to the surgeon before your surgery? What were they for? What was discussed?

During these visits, who did you meet with, besides your surgeon? PROBE: Why? What happened?

What kinds of questions or concerns did you have during these pre-surgery visits?

What did you do about these questions and concerns?

6. Did you feel you were getting good care and treatment at these visits or not?
Specifically, what did the doctor or the staff do that made you feel this way?

7. Who else did you have to see before your surgery, besides the surgeon and his or her staff -- like for blood tests, x-rays, and things like that?

What kinds of problems, if any, did you have with these interactions? PROBE:
Any delays or cancellations?

To what extent, if any, was your surgeon or his or her staff involved with these people?

PART 3: ADMISSIONS PROCESS/PRE-SURGERY

15 MINUTES

Next, we would like to talk about your experiences just before and just after your surgery.

1. Where was your surgery?

2. On the day of your surgery, before the surgery, did you talk with your surgeon?

What was this like? That is, what did your surgeon say or do? What else?

How did this make you feel?

3. There's a lot of paperwork and forms that you have to fill out before a surgery. Do you remember filling out any forms that said it was okay for the surgeon to perform the surgery or not?

IF YES: Do you remember what these forms were called? IF 'INFORMED CONSENT FORM' IS MENTIONED, ASK: How many of you have heard of 'informed consent forms? IF 'INFORMED CONSENT FORM' IS NOT MENTIONED, SAY: Some people call these forms 'informed consent forms.' How many of you are familiar with this expression?

What was filling out these forms like? That is, who was there to help? What did they say?

4. I'm sure you've all heard stories about medical mistakes or errors. What, if anything, did the people where you had your surgery or your surgeon do to try to prevent mistakes from happening to you? (examples to mention if necessary -- doctors doing the wrong operation, operating on the wrong leg or wrong arm, or operating on the wrong patient; giving the patient the wrong IV or medication)

IF SEVERAL THINGS ARE MENTIONED: When they were doing this, did you think all of these things were necessary -- or was it 'overkill'? Why?

PART 4: ANESTHESIOLOGY

20 minutes

(Note: Can spend less time on this section if necessary)

For most surgeries, patients are anesthetized so they won't feel any pain. Typically, a special kind of doctor called an anesthesiologist is responsible for this.

1. Were you anesthetized during your surgical procedure?

Was an anesthesiologist responsible for this or did your surgeon do this?

IF ANESTHESIOLOGIST: Do you remember the name of your anesthesiologist or not?

2. I'd like to find out about your experiences with the anesthesiologist. First of all, did you see or meet with your anesthesiologist before your surgery?

IF YES: Tell me about these meetings. When did they occur? How many were there?

What did the anesthesiologist do or say?

How did this make you feel?

3. A little while ago, we talked about surgeons getting your written permission before they operated on you. (For those of you that had an anesthesiologist), did your anesthesiologist have you sign any forms or not?

IF YES: What happened? How was it different from giving your surgeon written permission? What did you think about this process?

IF NO: Do you think this permission was part of some other forms you signed or not? Why?

What do you think is better -- just signing one form or signing different forms for permission for surgery and for permission for anesthesiology? Why?

4. Did you meet with your anesthesiologist after the surgery or not?

IF YES: Tell me about these meetings. When and where did they occur?

What was discussed?

5. Did you think you got good care and treatment from your anesthesiologist or not? Why (not)? What did the anesthesiologist do or say that made you feel this way?

6. What are the characteristics of a good anesthesiologist? (WRITE ON FLIP CHART PAPER).

7. How about a bad anesthesiologist? (WRITE ON FLIP CHART PAPER.)

PART 5: SURGERY/IN-HOSPITAL RECOVERY

20 minutes

1. Who was in the operating room during your surgery? (NOTE: The purpose of this item is to see if people are aware that there was an operative team.)

How do you know this?

Did you feel like the people in the operating room were working together as a team? Why/why not?

2. How many of you stayed in the hospital overnight at least one night after your surgery? And the rest of you went home the same day?

Now we want to talk about the period of time after your surgery, but before you went home (regardless of when this was).

3. Did you see your surgeon?

IF YES: Tell me about these meetings. When did they occur? How many were there? Was this enough?

What was discussed?

Did you have any questions? What did you do? What was the result?

How do you feel you were treated by the surgeon? What words or phrases would you use to describe your treatment?

4. Did you meet with anyone else from the surgeon's staff?

IF YES: How were you treated?

5. Did the surgeon or the surgeon's staff discuss your surgery with a friend or family member?

IF YES: What did they say about these conversations with the surgeon or surgeon's staff?

6. How well prepared were you for the period immediately after the procedure, but before you went home?

Why do you feel this way?

7. While you were recovering, before you were sent home, do you think people were doing all that they could to help you deal with your pain or not?

Why?

Who was responsible, if anyone, for making sure that you had as little pain as possible?

Why do you say that?

8. Before you went home, did the people who were caring for you -- excluding friends and family -- seem to know the important things about your surgery and how you were feeling?

How do you know this?

PART 6: POST SURGERY

15 minutes

Now, I'd like to hear about your interactions with your surgeon and the surgeon's office after your surgery. I'd like to hear about things that happened after you left the place where the surgery was conducted.

1. Did you see your surgeon or contact your surgeon's office during this time?

IF YES: Tell me about these meetings. When did they occur? How many were there? Was this enough?

What was discussed?

2. Did you have any questions?

IF YES: What did you do about them?

What was the result?

3. Did your surgeon communicate with other people who were involved in your post-surgery care, such as your primary care physician? Tell me about these communications – and how you felt about them.

How aware or unaware was the surgeon about the care you were getting from other people who were involved in your recovery, such as a physical therapist? How did you feel about this?

4. Overall, how do you feel you were treated by the surgeon after your surgery? What words or phrases would you use to describe your treatment during this time?

5. Did you meet with anyone else from the surgeon's staff during this time?

IF YES: How were you treated? What, if anything, happened that made you think you were getting good care?

And, what, if anything happened that made you think you were not getting good care?

What role, if any, did the surgeon's staff play in coordinating your post-surgery rehabilitation care? How did you feel about what they did/didn't do?

6. How well prepared were you for the recovery period? That is, what did you expect things would be like -- and how similar were things to what you expected?

What was different from what you expected?

Why do you think things were different?

PART 7: GENERAL ITEMS AND VOTING EXERCISE **15 minutes**

1. To help us summarize, what are the characteristics of a good surgeon? (WRITE ON FLIP CHART PAPER).

2. How about a bad surgeon? (WRITE ON FLIP CHART PAPER.)

3. VOTING EXERCISE

Hand out voting sheets. This is an exercise in which I want you to vote for the most important considerations in picking a surgeon.

You each have five votes. I want each of you to go through the list and circle the five most important considerations to you in picking a surgeon. You can write in things that are not included on the pre-printed list, such as things the things we just listed about the characteristics of a good surgeon.

Treats patient with courtesy and respect

Listens carefully to patient

Makes patient comfortable discussing things

Sees patient on time

Takes time to answer patient's questions

Answers questions clearly

Provides materials (pamphlets, DVDs, etc.) to help answer patient's questions

Uses diagrams, models, or videos to explain things

Involves patient in making choices about treatments

Responds to questions or complaints quickly

Provides good follow-up care

Helps patient gets follow-up care from other providers

Warm and friendly staff

Courteous and respectful staff

Good surgical skills

Conducts office visits quickly and efficiently

Good support staff to deal with administrative questions

Good support staff to help with recovery process

Prepares patient well for surgery

Prepares patient well for post-surgical recovery

Collect sheets, tally results, transfer results to flip chart sheet.

PROBE for the thoughts about the reasons for high and low/no vote items. For example:

XXX got the largest number of votes, why do you think that is?

YYY didn't get any votes, what thoughts do you have about why?

PART 8: SURVEY EXPERIENCE AND WRAP UP

10 MINUTES

As you know, we're going to be developing a survey for people to complete about their surgeons and their staff. So, I'd like to find out how you decide whether or not to complete health surveys and also about your experience with internet surveys.

1. How would you feel about being asked questions about your surgeon?

Do you have any concerns about answering such questions?

Would you be concerned about confidentiality?

2. If you received a survey in the mail about your surgeon, would you answer it? Why or why not?

What could someone say to make you, and other surgical patients, more likely to complete and return a survey about your surgical care?

3. How many of you use e-mail? Have you ever been asked to take a web-based survey?

(If YES to above) Did you decide to answer it or not?

Why (not)?

4. What concerns, if any, would you have if you were asked to complete a web-survey about your surgeon?

We're done now.

Before you leave, I'd just like to find out if you have any additional comments you would like make about any of the topics we discussed today, or topics that we didn't cover.

Thank you again for your participation.

Have participants sign incentive receipt and give out incentives.

American College of Surgeons

CAHPS Surgical Care Survey Focus Groups: Reports Testing

Presented to:
Agency for Healthcare Research and Quality

Prepared by:
American College of Surgeons

March 3, 2010

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Executive Summary

American College of Surgeons developed a Cross-Surgical Version of the Consumer Assessment of Healthcare Providers and Systems (CAHPS). Upon submission of the Surgical Survey, the Agency for Healthcare Research and Quality (AHRQ) has asked us to complete focus groups to test the reporting composites with surgical patients.

Two focus groups were conducted in early February 2010, involving eight participants. These participants were diverse demographically and had undergone non-emergency surgery within the past six months. Using a structured interview protocol, all focus group participants were asked about their use of quality information, to create composites, to analyze the researcher's composites, to create titles for the composites, and to discuss any additional information that would be useful when choosing a surgeon.

All participants in both focus groups agreed that reporting composites from the Surgical Survey would be useful quality information in selecting a surgeon. Overall, there were eight groupings, or composites, that arose from the two focus groups that made sense to the participants and shared a common surgical theme, or characteristic:

1. Surgeon Communication Before Your Surgery
2. Surgeon Communication After Your Surgery
3. Surgeon Care Before Your Surgery
4. Surgeon Care on the Day of Your Surgery
5. Surgeon Care After Your Surgery
6. Clerks and Receptionists at Surgeon's Office
7. Surgeon/Patient Shared-Decision Making
8. Anesthesia Care

While some of the composites and the reporting scores are more important to consumers than others, the participants felt that all of the above composites ultimately yield quality information, whether it is for the patients or for the surgeons.

Background

This report presents the results of focus groups conducted to obtain input from surgical patients about the structure of consumer reports about the quality of surgical care, input about the content of the reports, and input about surgical patients' experience using consumer reports about health care quality and factors that would influence their use. Patients, practice groups, health plans, and insurers have a need for information about their surgeon's performance and the main emphasis of this survey is to measure aspects of surgical quality that are important to such consumers.

In previous field test analysis, we examined potential reporting composites to be used in public and consumer reports based on survey data. The final four reporting composites

were the results of multiple rounds of composite identification and confirmation analyses: pre-surgical care, peri-operative care, post-surgical follow-up, and office staff. These reporting composites were developed for the purpose of summarizing surgical patients' experiences with their surgeons. Previous field test analysis also indicated that items asking about communication should be kept distinct in both the pre-surgical and post-surgical composites. While there was a strong association between pre-surgical and post-surgical ratings on the same specific skills and abilities for a large majority of patients, a substantial minority indicated that pre-surgical communication and post-surgical communication differed for the same surgeon and expressed strong dissatisfaction with these factors post-surgery. The four composites and their corresponding items are listed below:

Care Before Surgery

- Surgeon or health provider from this surgeon's office gave enough information before surgery
- Surgeon or health provider from this surgeon's office gave easy to understand instructions
- Surgeon listens carefully to you (pre-surgery)
- Surgeon encourages you to ask questions (pre-surgery)
- Surgeon spends enough time with you (pre-surgery)
- Surgeon treats you with courtesy and respect (pre-surgery)

Care During Surgery

- Did surgeon visit you before surgery
- Did visit make you feel more calm and relaxed
- Did surgeon visit you and discuss the outcome of your surgery

Care After Surgery

- Surgeon or health provider from this surgeon's office explains what to expect during recovery

- Surgeon or health provider from this surgeon's office warn you about symptoms that require immediate attention
- Surgeon or health provider from this surgeon's office give you easy to understand instructions about what to do during recovery
- Surgeon made sure you were physically comfortable after surgery
- Surgeon listens carefully to you (post-surgery)
- Surgeon encourages you to ask questions (post-surgery)
- Surgeon spends enough time with you (post-surgery)
- Surgeon treats you with courtesy and respect (post-surgery)

Office Staff

- Clerks and receptionists are as helpful as you thought they should be
- Clerks and receptionists treat you with courtesy and respect

This report presents the results of the reports testing with target audiences.

Methods

This section describes the characteristics of the focus group participants, and the approaches used to recruit for, conduct, and analyze the results from the groups.

Recruitment

Recruitment for the focus groups was conducted by ACS staff using screening protocols to enlist the desired target audience. These protocols were very similar to the previous focus group screening protocol and the criteria are listed below:

A surgery within the past six months and involved the use of anesthesia or required an overnight stay

A scheduled (non-emergency) surgery

At least 18 years old

Able to speak and understand English

Participants

For the first group, four participants were recruited. For the second group, seven participants were recruited. Across these two groups, three participants did not show up, resulting in a sample of eight. Tables 1 and 2 provide information about the eight focus group participants.

Procedures

The first focus group was held on Tuesday, February 2, 2010 and the second was held on Thursday, February 4, 2010. Both groups were held at American College of Surgeons office in Washington, DC. Each group lasted approximately 90 minutes.

Consent. At the outset of each group, participants were asked to complete a consent form. The form outlined the purpose of and procedures involved in the research, risks and benefits, issues related to confidentiality, whom to contact with questions and concerns, and the voluntary nature of participation. It noted that participants would receive compensation for their time (\$50). The form also gave permission to audio-record the group.

Table 1. Participant Characteristics

	2-Feb-10	4-Feb-10	TOTAL
Gender			
Male	2	1	3
Female	0	5	5
Age	43.5*	52.2*	50*
Race/ Ethnicity			
Caucasian	2	3	5
African American	0	1	1
Asian	0	1	1
Other	0	1	1
Anesthesia			
Yes	1	6	7
No	1	0	1
Had surgery prior to index surgery			
Yes	0	5	5
No	2	0	2
Missing Data	0	1	1

*Figure represents the mean.

Protocol. Elizabeth Hoy, an experienced moderator, led each focus group using a protocol developed by ACS. The protocol was semi-structured in nature and questions were open-ended to elicit in-depth responses from participants. Each group discussed the following:

- Use of quality information
- Respondent derived composites
- Analysis derived composites
- Titles for composites
- Other information for choice

For each group, the moderator was accompanied by another ACS staff member who took notes. In addition, the second focus group was audio-recorded and these recording were used for reference to supplement the notes taken in real time.

Table 2. Participants' Surgeries

2-Feb-10	4-Feb-10
<ul style="list-style-type: none"> ● Tosis and eyelid surgery (Blephoroplasty) ● Nasal passage surgery 	<ul style="list-style-type: none"> ● Adenoid cystic carcinoma - right ear removal ● Hysterectomy (total) ● Laser surgery on throat ● Colon/Bowel resection ● Hysterectomy ● Laproscopic fibroid myomectomy

Analysis/Summary of Findings. ACS staff examined the focus group notes and the findings were summarized in the report.

Limitations. The findings presented in this report are based on the opinions expressed by participants during the focus groups.

Results

This section summarizes the results from the two focus groups we conducted.

Use of Quality Information. In the focus groups, the participants were asked a series of questions about use of quality information to yield individual thought and group discussion. The moderator began by asking if any of the participants have ever used a magazine, internet, or report such as Washington Checkbook when making a big purchase, such as a TV or car. Both focus groups agreed that they have used comparative information when making a decision about a major purchase. This ideology was then translated into the choice of surgeon. Most participants seem to agree that they used some sort of information to pick their surgeon. Participants stated quality information for making a decision about their surgeon included: a recommendation from friend, family, or primary care physician; surgeon's hospital affiliation; surgeon's or hospital's website information; insurance coverage; proximity to home; surgeon's procedure history; and surgeon's personality.

In both groups, the strongest themes included: recommendation from friend/family/primary care physician and surgeon's personality. Recommendations were thought to be very useful quality information because they came from a trusted source that had a positive history with a certain surgeon. The surgeon's personality was also a very significant piece of quality information because participants felt that a surgeon who was confident, caring, honest, and willing to answer all their questions was better equipped to do their surgery.

Respondent Derived Composites. The moderator described the surgical survey to the participants and explained that answers would be rolled into a quality report that patients, like themselves, would be able to use when they need to choose a surgeon. The moderator also explained that giving patients the answers to every single question from the survey would be too confusing and too much information to easily compare and gain quality information about surgeons. Thus, the questions are grouped into categories. The participants viewed examples from other surveys, including Medicare Compare and Medi-Cal.

The participants were then given all the questions in the survey on note cards, and asked to organize the questions into groups based on one characteristic of surgical care that makes sense to them. The participants were also asked to write a title for each group of questions they created.

After each participant completed the task, the moderator went around the table and asked each participant to read their grouping, including the title and items included. The groupings were written on a flip chart for comparison in the next round of discussion.

Analysis Derived Composites. The focus group participants were shown the groupings of questions that the researchers who developed the surgical survey created based on statistical analysis. The moderator asked both groups to discuss the differences in the groupings they created and the groupings the survey researchers created. They were also asked give a title to each of the researcher's groupings.

For the first grouping, Care Before Your Surgery, the first focus group suggested: Getting Information about your Surgery. They agreed overall with the grouping of questions for this category. One participant in the second focus group had almost the exact same grouping as the one researchers created, although she included the "before your surgery" shared-decision making questions. The second group felt that these questions seemed to fit well in the "before your surgery" grouping. The moderator explained that these shared-decision making questions are not rolled into this composite because they do not always statistically correlate with overall quality of care ratings, although they do provide actionable items for the surgeon. These questions might also provide information that consumers feel is very useful. The majority of the focus group agreed that knowing the results of the shared-decision making questions would be useful because high scores would indicate a surgeon who is more confident, open, and knowledgeable about their condition and treatment options. One participant indicated that these questions would not provide useful information for her because she would like to leave the decisions about

treatment in the hands of a professional who can tell her what is best to do. Thus, shared-decision making items are more important to some patients than others and should not be rolled into the pre-operative composite. Having it as a separate rating would allow patients to decide whether or not they want to compare those scores.

For the second grouping, Care on the Day of Your Surgery, the first focus group suggested: Pre-anesthesia on the Day of Your Surgery. They felt that this grouping was important because it excluded the questions about the anesthesiologist, who they felt was secondary to the surgeon. The grouping covered the critical interaction with the surgeon right before one “goes under the knife.” The second focus group felt that the anesthesia care was appropriate to leave out in this grouping as well. Because an anesthesiologist works within a hospital system, it makes sense to separate out this care from the surgeon. One participant stated that an anesthesiologist is not something considered when choosing a surgeon, and you would not typically know who will be delivering your anesthesia care on the day of your surgery. The anesthesia questions may be more actionable for the surgeon to improve quality of care because if they review their results and find their anesthesia scores consistently low, they can take it up with the hospital and anesthesiology group.

For the third grouping, Care After your Surgery, the first focus group suggested that this could almost be broken into smaller categories of: Right After your Procedure and During your Hospital Stay. These could only be broken down in this manner if one had a hospital stay of two or more days. Therefore, the group understood why the researchers coupled the questions into one composite. One participant in the second focus group suggested a very similar grouping: Immediate Post-op Care and Long-Term Post-op Care. When questioned about this grouping, the participant indicated that it was due to the similar wording of “After your surgery” in her Immediate Post-op Care group.

The communication skills are broken out into the “Before your Surgery” and “After your Surgery” groupings. The moderator asked the focus groups at this time if it made sense to have these communication items split into these groupings, or if it made more sense to split these out into one or more “communications” grouping. Most of the participants felt strongly that it made sense to have the pre-surgery communication items separate from the post-surgery communication items. One participant stated that she had a very different experience with communication skills from her surgeon before and after the procedure. The lack of communication he provided after her surgery made her feel very scared and alone. The group felt that it was necessary to keep these items separated so one could compare before and after communication skills.

For the fourth grouping, Office Staff, the first focus group thought this was good to separate the clerks and receptionists out from the rest of the categories because they are not skilled health care providers and do not have a physical presence at the actual surgery. They suggested Clerks and Receptionists at this Surgeon’s Office as a grouping title. The second focus group also agreed with this grouping because the clerks and receptionists will not have a major impact on their surgical care. They felt their role was more to help reduce anxiety levels by creating a calm and relaxed office environment

before and after surgery. Clerks and receptionists are also continuous throughout the surgical experience, so these questions would not fit in any of the either groupings since those are broken down based on before, during, and after your procedure.

Other information for choice. In this part of the discussion, the moderator asked the focus groups participants where they would want to go to find the results and scores of the surgical survey. And, what would be considered a trusted source for this information. The first focus group suggested it would be useful to create a sort of “car fax” report for surgeons, where all the information was gathered in one easy-to-find location, preferably on the internet. The first focus group participants also indicated that while they might review the results and score from this survey, there is much more important information they would prefer to review: surgeon’s “stats sheet”, surgeon’s number of procedures per year, surgeon’s complications and fatalities, and surgeon’s outcomes. The group also did not feel like the Washingtonian, insurance companies, or the doctor’s office would provide a trusted source. Trusted sources might include: professional organizations similar to American College of Surgeons, Surgical Boards, or a company that is solely responsible for comparing this data.

The second focus group suggested that a trusted source may include a doctor’s office, such as their primary care doctor, or a magazine, such as the Washingtonian. The group did not feel that insurance companies would be a trusted source for reporting the survey results information. The second focus group also felt that they would want other information to add to the results of the surgical survey, such as board certification, skills/credentials, outcomes, volume, experience, education, and practice affiliation.

Conclusions and Recommendations

Based on the discussion and results of the two focus groups, there were eight distinct groupings that surfaced:

1. Surgeon Communication Before Your Surgery
2. Surgeon Communication After Your Surgery
3. Surgeon Care Before Your Surgery
4. Surgeon Care on the Day of Your Surgery
5. Surgeon Care After Your Surgery
6. Clerks and Receptionists at Surgeon’s Office
7. Surgeon/Patient Shared-Decision Making
8. Anesthesia Care

The first two grouping arose from the discussion of the communication items. These items were seen as different from the care provided by the surgeon. Furthermore, some participants only wanted to know about a surgeon’s care and not how he communicated with them. Thus, American College of Surgeons recommends that the communication

items be pulled from the “Care Before Surgery” and “Care After Surgery” composites to create a separate group.

In addition, participants also felt communication with their surgeon may vary before and after surgery. Based on their experiences, participants believed there should be two separate communication groupings. As a result, American College of Surgeons recommends that the communication items be separated into the following two composites:

Surgeon Communication Before Your Surgery:

- Surgeon listens carefully to you (pre-surgery)
- Surgeon encourages you to ask questions (pre-surgery)
- Surgeon spends enough time with you (pre-surgery)
- Surgeon treats you with courtesy and respect (pre-surgery)

Surgeon Communication After Your Surgery:

- Surgeon listens carefully to you (post-surgery)
- Surgeon encourages you to ask questions (post-surgery)
- Surgeon spends enough time with you (post-surgery)
- Surgeon treats you with courtesy and respect (post-surgery)

As a result of pulling the communications items from the “Before Your Surgery” and “After Your Surgery” groupings, American College of Surgeons recommends the following three composites regarding surgical care:

Surgeon Care Before Your Surgery:

- Surgeon or health provider from this surgeon’s office gave enough information before surgery
- Surgeon or health provider from this surgeon’s office gave easy to understand instructions

Surgeon Care on the Day of Your Surgery:

- Did surgeon visit you before surgery

- Did visit make you feel more calm and relaxed
- Did surgeon visit you and discuss the outcome of your surgery

Surgeon Care After Your Surgery:

- Surgeon or health provider from this surgeon's office explains what to expect during recovery
- Surgeon or health provider from this surgeon's office warn you about symptoms that require immediate attention
- Surgeon or health provider from this surgeon's office give you easy to understand instructions about what to do during recovery
- Surgeon made sure you were physically comfortable or had enough pain relief after you left the facility where you had your surgery

Focus group participants felt that clerks and receptionists should be separate from the surgeon or health care providers at the surgeon's office. While clerks and receptionists are viewed as part of the overall surgical experience, they are distinct from those who are providing care. Consequently, American College of Surgeons recommends that questions about the clerks and receptionists remain separate from the other items, yielding the following composite:

Clerks and Receptionists at Surgeon's Office:

- Clerks and receptionists are as helpful as you thought they should be
- Clerks and receptionists treat you with courtesy and respect

Focus group participants valued the fact that shared-decision making questions do not always statistically correlate with overall quality of care ratings, although they provide actionable items for surgeons. Participants decided that seeing the results of the shared-decision making items would be useful because scores may correspond with confidence, knowledge, and honesty. While these may be important to some patients, others may not necessarily choose a surgeon based on these items because they feel by the time a surgeon is needed, there may not be any other treatment options available. Therefore, American College of Surgeons recommends that the shared-decision making items make up the following reporting composite:

Surgeon/Patient Shared-Decision Making:

- Surgeon tell you there was more than one way to treat your condition
- Surgeon ask you which way to treat your condition you thought was best
- Surgeon talk with you about the risks and benefits of your treatment choices
- Surgeon or health care provider from this surgeon's office use pictures...to help explain things to you
- Did pictures...help you better understand

Focus group participants agreed upon the fact that anesthesia care is important in the overall surgical experience; however, participants understood that an anesthesiologist works within a hospital system. Most did not feel that scores resulting from an anesthesia care composite would affect their choice of surgeon, but concluded that it may provide actionable quality improvement information for surgeons. For that reason, American College of Surgeons recommends that the Anesthesia Care grouping remain a reporting composite:

Anesthesia Care:

- Anesthesiologist encouraged you to ask questions
- Anesthesiologist answered your questions clearly
- Anesthesiologist visited you before surgery
- Talking with this anesthesiologist during this visit made you feel more calm and relaxed

Instructions for Analyzing Data from CAHPS® Surveys:

Using the CAHPS Analysis Program Version 3.6

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For additional guidance, please email cahps1@ahrq.gov or call the Help Line at (800) 492-9261.

*This document explains how the Analysis Program works and how sponsors and vendors can use the program to interpret the results of their CAHPS survey. While the program was initially designed for the CAHPS Health Plan Survey, you can use it to analyze data from any of the CAHPS surveys. Guidance specific to individual surveys is also provided in each **CAHPS Survey and Reporting Kit**.*

The CAHPS Analysis Program

The goal of the CAHPS Analysis Program – often referred to as the CAHPS macro – is to provide the user with a flexible way to analyze CAHPS survey data in order to make valid comparisons of performance. Written in SAS, the CAHPS Analysis Program is designed to assist CAHPS survey users in implementing two kinds of statistical adjustments.

Comparing items and composites. CAHPS surveys collect consumers' and patients' reports and ratings of a number of dimensions of health care. Comparing performance based on all the individual CAHPS survey items is a very complex task. Moreover, individual survey items are often less reliable than multiple item combinations. To simplify the interpretation of the data and enhance the reliability of the results, questions that measure similar topics are grouped together. These groups of questions, called **composites**, facilitate comparisons of performance across your unit of analysis (e.g., health plan, medical practice, clinician). (Note: Each CAHPS Survey and Reporting Kit includes a document that lists the items in the reporting measures, i.e., composite measures and ratings, for that survey.)

Adjusting for case mix. The CAHPS Team recommends that you adjust the survey data for respondent age, education, and general health status. This makes it more likely that reported differences are due to real differences in performance, rather than differences in the characteristics of enrollees or patients.

Computing Requirements

The CAHPS Analysis Program was developed using SAS® software. SAS is a data management, analysis, and presentation product produced by SAS, which is headquartered in North Carolina. The operation of SAS requires a Base system, but a number of individual modules can be added to perform more complex analyses and data manipulation.

The CAHPS Analysis Program requires Base SAS and the SAS/STAT module. Base SAS, which is required to use any SAS product, provides the data manipulation, print commands, simple plotting capabilities, and procedures for descriptive statistics. Base SAS includes the CORE module. The SAS/STAT module adds several statistical procedures for use by SAS. The CAHPS Analysis Program uses the SAS regression

procedure, PROC REG, to do part of its case-mix calculations. If case-mix calculations will not be used, then the macro requires Base SAS only. .

The CAHPS Analysis Program was written in version 6.12 of PC SAS and version 6.12 of SAS/STAT. The program should work on all SAS platforms that have version 6.0 or later. It has been extensively tested on UNIX and Windows SAS products and has performed well.

Pre-Analysis Decisions

The CAHPS Analysis Program offers the user a number of options for analyzing the survey data. Before preparing to run the program, analysts should make sure that the project team has agreed upon answers to the following questions. Their implications for the CAHPS Analysis Program are reviewed below. Having these questions answered early will save time when doing the analyses.

What is the reporting unit (e.g., health plan, provider group or clinic, site of care, individual physician)?

If the project team has collected data at many different levels, the team needs to decide whether to analyze the units together or conduct analyses separately. If the data are to be analyzed together, no changes to the CAHPS Analysis Program are necessary. If the data are to be analyzed separately and the survey vendor has grouped the units into a single data file, it is necessary to code selection criteria (subsetting statements) into the Analysis Program, split the data file into separate files, or use the subset option in the CAHPS macro call.

Note that the CAHPS Analysis Program was initially written for the CAHPS Health Plan Survey. Therefore, variable names, examples, and other references throughout the program refer to health plans. Review the survey-specific guidance provided in each CAHPS Survey and Reporting Kit for specific instructions on adapting the program for other surveys.

Will you analyze specific population groups separately?

If the project team has collected data for different groups of people, the team needs to decide whether to analyze the data separately or together. Subgroups that you may be considering for separate analyses can be defined by payer (e.g., Medicare, Medicaid, privately insured), geographic region (e.g., state, county, region), or other factors. If the groups are to be analyzed together, no changes to the CAHPS Analysis Program are necessary. If a team decides to analyze the groups separately and the data file contains more than one group, it is important to set up selection criteria in the CAHPS Analysis Program or split the data set.

Will adult and child surveys be analyzed together or separately?

The Analysis Program allows users to specify how child and adult surveys will be analyzed. The project team needs to decide whether to analyze surveys about adults and children separately or together. If adult and child survey data are to be analyzed together, the team must also decide whether to consider interaction effects. Interaction effects are important to consider in an analysis when the impact of age or health status on one of the reporting items depends on whether an adult or child survey is being analyzed. See the section called ***Explanation of Statistical Calculations*** for a more detailed discussion of interaction effects. We recommend that you consider interaction effects when combining adult and child data.

If the team collected only adult or child surveys, users still need to specify an option listed below in the CAHPS Analysis Program. There are four options depending on which surveys are in the data set and how the user wants to analyze them:

Option value	Surveys in data set	Analysis method
0	Adult and child surveys, only adult surveys, or only child surveys	Combine adult and child survey data; do not consider interaction effects
1	Adult and child surveys	Combine adult and child survey data; consider interaction effects
2	Adult and child surveys or only child surveys	Child surveys only
3	Adult and child surveys or only adult surveys	Adult surveys only

Will high and low users of health care services be analyzed together or separately?

The CAHPS Analysis Program allows users to analyze the data for survey respondents with a high or low number of outpatient visits separately or combined. The criterion for establishing low and high users of outpatient services is based on Question 7 of the ***CAHPS Health Plan Survey – Adult Commercial Questionnaire***. High users are defined as respondents who indicated that they have had three or more visits for their own care to a doctor’s office or clinic (not including emergency room visits). Low users indicated that they have had fewer than three visits to a doctor’s office or clinic.

The CAHPS Consortium recommends reporting data for global ratings (e.g., respondent’s rating of their personal doctor or nurse, specialists, health care in the last 12 months, and/or health plan) according to outpatient utilization. It is

up to the project team to decide whether to analyze the survey data for low and high users separately or together. You can then choose from the corresponding Option Values listed below for the CAHPS Analysis Program.

Option value	Analysis decision
1	Combine low and high users.
2	Low users only (< 3 visits)
3	High users only (\geq 3 visits)

What level of significance (p-value) will you use in the analysis?

The CAHPS Consortium recommends a p -value of 0.05 to test for statistically significant differences between the entities being compared. The p -value the team chooses must be specified in the CAHPS Analysis Program.

What, if any, level of substantive (practical) significance will you use to compare performance?

Substantive significance refers to an absolute difference between the entities being compared (e.g., health plans, provider groups, individual physicians) that must be achieved before a change is considered meaningful. If two health plans, for example, had significantly different average scores based on the p -value criteria, the difference between the plans' average scores may still not be large enough to be meaningful.

The CAHPS Analysis Program has two options that allow the user to specify a difference that is substantive. You can use these options simultaneously or specify only one.

First method. The team decides on a percentage of the distance to the nearest bound that is meaningful. The example presented below explains this concept.

Assume the analysis of a global rating question (one that uses a 0-10 rating scale) has the following mean scores for a global rating question across all health plans:

Global Rating Question overall mean (0-10 scale) = 6

To determine a level of difference between plans that is substantively large:

1. Determine the distance from the mean to the nearest bound:
 - a) Compute the distance from the lower bound

$$\text{Mean (6) - Lower bound (0) = 6}$$

- b) Compute the distance from the mean to the upper bound

$$\text{Upper bound (10) - mean (6) = 4}$$

- d) Determine the smaller difference

$$\text{Minimum (6,4) = 4}$$

2. The distance from the nearest bound is 4. Now the project team must decide what percentage of this distance is a meaningful difference between plans. This fraction is entered in the CAHPS Analysis Program.

Second method. A much simpler method available in the macro program is to specify an absolute difference that must exist between the plan mean and the mean for all plans in the analysis for a difference to be considered significant. For this method, the user needs only to specify the absolute difference considered to be meaningful.

Do you need to adjust the results for case mix?

Case mix refers to the respondents' health status and other sociodemographic characteristics, such as age or educational level, that may affect the ratings of the health plan, providers, or care. Without an adjustment, differences between entities could be due to case-mix differences rather than true differences in quality. Each project team must determine if it is appropriate to adjust its data to account for case-mix differences.

What to adjust for

If the project team decides to adjust the data for case-mix, it must choose the appropriate adjusters. The CAHPS Consortium recommends using general health status, age, and education. Individuals in better health and older individuals tend to rate their care, plans, and providers higher. There is also evidence from a number of studies that education affects ratings, with more educated individuals giving lower ratings.

Missing data for case-mix adjusters

If case-mix adjusted results will be used, the project team must decide whether or not to impute missing data for the adjusters at each adjuster's plan-level mean.

Risk of out-of-range values for case-mixed means

In the special cases where there are very few records for an analysis variable or all respondents answered in only one or two response categories, there is the possibility that the case-mix adjusted values will be out of range. For

example, if all respondents to a Health Plan Survey answered “Yes,” where 0= “No” and 1= “Yes” to a yes/no question, and the adjustment for that plan is up, the adjusted mean for that plan would be greater than 1 and the adjusted frequencies would be less than zero for the “No” category and greater than 1 for the “Yes” category.

The macro does not force a change in these values, since it would change the mean of the means on the adjusted scores but not on the unadjusted scores. It is recommended that, in reports to a plan, you set these out-of-range values to the minimum or maximum value for that category. Then a manual adjustment could be made to the adjacent category if necessary. For example, in the case of three response categories, where the minimum frequency should be zero and the maximum value is 100, the case-mixed frequency results are as follows:

category 1 =	-2.0,
category 2 =	25.0 and
category 3 =	77.0

The results could be adjusted so that

category 1 =	0.0,
category 2 =	23.0 and
category 3 =	77.0

Do results need to be analyzed using weighting and stratification?

As discussed above, sampling plans can be designed to select disproportionately potential respondents from certain geographic or demographic groups in the population. Alternatively, situations can arise after sampling is complete that create the need to combine data for certain sampling units. For example, this can occur when two plans merge their operations and the survey sponsor chooses to report their results as a combined score. Whether plans are merging their operations or a disproportionate stratified sampling design was used, the CAHPS Analysis Program can perform the appropriate analyses, provided the user specifies the correct strata to be combined and the number of members in each stratum out of the entire population.

What Does the CAHPS Analysis Program Analyze?

The CAHPS Analysis Program is designed to analyze multi-item composites and single items from the CAHPS survey data. The output from the program compares the performance of an entity (referred to as a plan, because that was the unit of analysis for the original program) to the overall performance of all entities.

The macro accepts five variable types. For four of these, the macro cleans their response values within the expected minimum and maximum range. For the fifth type, the minimum and maximum response values must be entered as an argument.

The following are the variable types:

Variable type	Min – Max response values
1 – Dichotomous	0 – 1
2 – Global rating	0 – 10
3 – How often or other 4-point response scale	1 – 4
4 – 3-point response scale	1 – 3
5 – Other	min_resp – max_resp

Global ratings are based on survey items that ask the respondents to rate different aspects of health care on a scale from 0 to 10. For example, the global ratings items in the *CAHPS Health Plan Survey 4.0 – Adult Commercial Questionnaire* are:

- Health care in the last 12 months (Question 8)
- Personal doctor (Question 15)
- Specialist (Question 19)
- Health plan (Question 27)

Overall Ratings		
Q8	Using any number from 0 to 10, where 0 is the worst health care possible and 10 is the best health care possible, what number would you use to rate all your health care in the last 12 months?	Response Format 0-10
Q15	Using any number from 0 to 10, where 0 is the worst personal doctor possible and 10 is the best personal doctor possible, what number would you use to rate your personal doctor?	
Q19	We want to know your rating of the specialist you saw most often in the last 12 months. Using any number from 0 to 10, where 0 is the worst specialist possible and 10 is the best specialist possible, what number would you use to rate the specialist?	
Q27	Using any number from 0 to 10, where 0 is the worst health plan possible and 10 is the best health plan possible, what number would you use to rate your health plan?	

Composites are groupings of two or more questions that measure the same dimensions of health care or health insurance plan services. Composites usually are developed for survey items that have the same response options.

For example, the composites in the Health Plan Survey represent the experiences of respondents (adult enrollees or the parents/guardians of enrolled children) in the following areas:

- Getting needed care (2 questions for adults; 2 questions for children).
- Getting care quickly (2 questions for adults; 2 questions for children).
- How well doctors communicate (4 questions for adults; 5 questions for children).
- Health plan information and customer service (2 questions for adults; 2 questions for children).

The following table illustrates how items in the Health Plan Survey 4.0 are grouped into the first of these composites.

Getting Needed Care		
Q17	In the last 12 months, how often was it easy to get appointments with specialists?	Response Format <ul style="list-style-type: none"> ▪ Never ▪ Sometimes ▪ Usually ▪ Always
Q21	In the last 12 months, how often was it easy to get the care, tests, or treatment you thought you needed through your health plan?	

Each survey's complete list of reporting measures – composites and ratings – are provided in a document available in the **CAHPS Survey and Reporting Kit**.

SAS Data Set Requirements

Before running the CAHPS Analysis Program, make sure that the structure and properties of the data file meet the specifications listed below. If the data set does not meet these requirements, the SAS program will not work properly. Many of the variable coding and cleaning requirements are demonstrated in the next section on using the CONTROL.SAS Analysis Program.

Data File Specifications

- Each row or case in the SAS data set represents the data for a unique questionnaire.
- If data from different CAHPS questionnaires are in the same data set and are to be analyzed together, each questionnaire is listed on a separate row. If data from adult and child questionnaires are in the data set, the adult and child questionnaires are also listed on separate rows.
- If data from different CAHPS questionnaires are in the same data set, responses for equivalent questions are listed under the same variable names.

Sample Size Requirements

Number of plans (i.e., entities such as health plan or providers). The data set must have surveys from at least two plans. If there is only one plan in the data being analyzed, statistical comparisons cannot be performed and some parts of the program will not work properly. If the CAHPS macro is run with data for one plan, a couple of warning messages and notes will appear in the log file that would not be produced if two or more plans were represented. All

the reports will still be produced, though some of the results will be of limited value.

Responses. At least two responses per plan are required by the Analysis Program. We recommend analysis of at least 100 responses for each plan. The program flags plans with fewer than 100 responses for an individual measure, but the analysis is performed on all plans with at least two records. Including plans with very little data tends to reduce the precision of comparisons between individual plans or providers and the overall means. The user can consider removing plans or providers with fewer than 100 responses from the data file before analysis.

Note: When analyzing units of analysis such as medical groups or individual physicians, follow the minimum response guidance in the *Fielding the Survey* document in the Kit for that survey. Since the program was initially designed for the CAHPS Health Plan Survey, you will receive the program flags in your results when there are fewer than 100 responses even if the target number of completed responses is less for your survey.

Variable Coding and Cleaning Requirements

Numeric variables. All analytic variables used by the CAHPS Analysis Program must be numeric. Analytic variables include any questionnaire item used to compute CAHPS reporting items, case-mix adjustment variables, the dichotomous variable used to identify child and adult surveys, and the variable used to identify high and low users of outpatient services. These variables are discussed in more detail below. To ensure that an error does not occur in the SAS program, all variables created from survey questions should be coded numerically. If the user recodes character variables to numeric, there should be a minimum length of 4. A length of 8 is recommended for the recode.

WARNING: The variables PLAN, CHILD, VISITS, and SPLIT are variable names needed by the CAHPS macro. If the data set has other variables with these names and they do not conform to the specifications below, the macro may produce errors in the log file and the results may be erroneous.

Variable PLAN. The variable PLAN must be included in the data set. This variable represents a numeric code or text descriptor for each health plan in the data set. This is the only variable that does not have to be coded numerically. The SAS program accepts alphanumeric, character, and numeric formats for this variable. The maximum variable length for PLAN is 40 characters.

Even if you are not analyzing health plan data, you must use the variable name PLAN to refer to your unit of analysis. This is because the SAS macros use that variable name. However, the variable can be any unit of analysis. For

example, PLAN can represent the names of the medical groups (Group A, Group B, etc.) or individual physicians (Dr. A, Dr. B, etc.).

Variable CHILD. The numeric variable CHILD needs to be in the data set if subsetting the data between adult and child records. This variable is used to distinguish between adult and child surveys in the SAS program. CHILD should be coded 0 for adult surveys and 1 for child surveys. If this variable is missing from the data set, the CAHPS macro sets CHILD = 0 when ADULTKID has the values 0, 1, or 3, and sets CHILD = 1 when ADULTKID = 2.

Variable VISITS. The variable VISITS needs to be in the data set if using the VISITS parameter. This variable is used to identify high and low users of health care services (e.g., refer to Question 7 from the *CAHPS Health Plan Survey 4.0 -- Adult Commercial Questionnaire*).

The table that follows shows the response values based on item 7 in the *CAHPS Health Plan Survey 4.0 -- Adult Commercial Questionnaire*. We recommend that you use these values while coding your questionnaires. If the VISITS variable is missing from the data set, the CAHPS macro will work fine as long as the VISITS parameter is not equal to 1.

7. In the last 12 months, not counting times you went to an emergency room, how many times did you go to a doctor's office or clinic to get care for yourself?

Response value	Label/description
0	None
1	1 time
2	2 times
3	3 times
4	4 times
5	5 to 9 times
6	10 or more times
All other values	Not analyzed by the SAS program

Variable SPLIT. The numeric variable SPLIT needs to be in the data set if you are doing separate case-mix adjustments on two different populations as indicated by the macro parameter SPLITFLG = 1. For most cases, the default value 0 for SPLIT does not need to be modified. An example of splitting the case-mix adjustments separately on two populations is when comparing Fee-for-Service populations with Medicaid Managed Care populations.

Yes/No Variables. Variables with “yes/no” response categories to be used in the analysis are coded as shown in the table below. Any variable with dichotomous response options should be coded in this manner. For easier interpretation of the results, the “positive” response should have the highest value.

Response value	Label/description
0	No
1	Yes
All other values	Not analyzed by the SAS program

Three Response Options. Any variable with three response options should be coded as shown in the table below. For easier interpretation of the results, the “positive” response should have the highest value.

Response value	Label/description
1	Yes, definitely
2	Yes, somewhat
3	No
All other values	Not analyzed by the SAS program

Four-Point Frequency scale. Variables with “never” to “always” response options are coded as shown in the table below. Any variable with four response options should be coded in this manner. For easier interpretation, the “positive” response should have the highest value.

Response value	Label/description
1	Never
2	Sometimes
3	Usually
4	Always
All other values	Not analyzed by the SAS program

Response value	Label/description
1	Definitely no
2	Somewhat no
3	Somewhat yes
4	Definitely yes
All other values	Not analyzed by the SAS program

Global Ratings. Global rating items with 0-10 response options are coded as shown in the table below:

Response value	Label/description
0	Worst
1	...
2	...
3	...
4	...
5	...
6	...
7	...
8	...
9	...
10	Best
All other values	Not analyzed by the SAS program

Coding for Adjuster Variables. If the project team decides to case-mix adjust the CAHPS survey results, numeric variables must also be properly coded for each adjuster variable. The CAHPS Consortium recommends adjusting the data for age, education, and general health status; however, the program allows for a flexible number of adjuster variables. The user can choose the proper specification for each variable used to adjust the data. Specifications used for age, education, and general health status in the CAHPS program are described below. Users may also specify the variables as dichotomous with reference categories (dummy variables). It is important to remember that the SAS program previously cleaned out-of-range values for these variables. However, the added flexibility of a user-specified number of variables and specification of the variables makes it necessary to code out-of-range values to missing before running data through the macro.

The coding specification for the numeric variable EDUCATION is included in the data set. Education refers to the respondent's highest level of school completed. This variable and its response codes should be coded based on the responses to the education item, for example, Question 35 in the *CAHPS Health Plan Survey -- Adult Commercial Questionnaire*.

35. What is the highest grade or level of school that you have completed?

Response value	Label/description
1	8 th grade or less
2	Some high school, but did not graduate
3	High school graduate or GED
4	Some college or 2-year degree
5	4-year college graduate
6	More than 4-year college degree
All other values	Code to missing

The coding specification for the numeric variable GENERAL HEALTH RATING (GHR) is included in the data set. The GHR is a rating of the survey respondent's overall health status. This variable and its response codes should be based on the responses to the health status item, for example, Question 28 in the *CAHPS Health Plan Survey -- Adult Commercial Questionnaire*.

28. In general, how would you rate your overall health now?

Response value	Label/description
1	Excellent
2	Very good
3	Good
4	Fair
5	Poor
All other values	Code to missing

The numeric variable AGE is included in the data set, representing age groupings based on data from the CAHPS survey.

This variable and its response value codes should be based on Question 33 of the *CAHPS Health Plan Adult Commercial Questionnaire* and Question 32 of the *CAHPS Health Plan Child Commercial Questionnaire*. The response values for these questions need to match the values for AGE as follows:

33. What is your age? / 32. What is your child's age?

Response value	Label/description (years)
For child surveys:	
0	< 1
1	1-3
2	4-7
3	8-12
4	13-17
For adult surveys:	
1	18 to 24
2	25 to 34
3	35 to 44
4	45 to 54
5	55 to 64
6	65 to 74
7	75 or older
All other values	Code to missing

Combining Data. If you want to combine data for reporting from different sampling strata or merged plans or create subsets within the macro, then a text file must be created for these purposes. If no file is specified, the macro creates one using the PLAN variable in the data set to set the “Original Plan” and “New Plan” equal to the PLAN variable, the “Population Size” equal to 1, and “Subsetting Code” equal to 1. An ASCII data set needs to be created with columns separated by one or more spaces for these four variables:

- **Original Plan** – a unique identifier of the units before they are combined. This variable can be coded as alphanumeric, but it cannot exceed 16 characters. This variable is the first column of the data table.
- **New Plan** – identifier for the units that are to be combined. This variable can be coded as alphanumeric, but it cannot exceed 16 characters. This variable is the second column of the data table. If no stratification is being done, this column may look identical to the column for original plan.
- **Population Size** – a numeric variable that indicates the size of the population for the unit. This variable is used to create the weights for combining the strata. The populations for the combined strata should equal the total population of the “new plan.” This variable is the third column of the data table. If no stratification is being done, this column may be set to 1s.

- **Subsetting Code** – identifier for the subset (i.e., region, state, county...) that the plan belongs in. This variable can be coded as alphanumeric. If no subsetting is to be done, this column may be set to 1s.

The ASCII file for the plan details should not contain any missing data and each column of data should be separated by spaces. If tabs are used, the macro may not read in the data correctly. Also, be sure to not have any extra records at the bottom of the ASCII file. If you want to make a quick sample plan detail file from the CAHPS data set, use the program `make_plandtal_dat.sas` as a starting point and change variable names and paths as needed. If the number of plans is small, it is probably easier to create the file by hand.

An example of the plan detail data set is provided for the test version 3.6 test program (`test.sas`). The data file is called “`plandtal.dat`” and looks like the text below:

```
HMO_A_URBAN HMO_A 5000 Northeast
HMO_B_URBAN HMO_B 8000 Northeast
HMO_C_URBAN HMO_C 15000 Atlantic
HMO_B_RURAL HMO_B 2000 Northeast
HMO_C_RURAL HMO_C 3000 Atlantic
```

The TEST data set provides an example for three health plans (2nd column) HMO_A, HMO_B, and HMO_C. The urban/rural strata for HMO_B and HMO_C are weighted together and the combined plans compared to HMO_A, which had members only in urban areas.

- The first column provides a unique identifier for each plan/region combination (original plan).
- The second column, the new plan variable, indicates which units will be combined.
- The third column, or the unit population size, is used to compute the weights for the plans. Units with greater population sizes receive more weight than smaller units in the combined plan.
- The fourth column is the region (subset) of the country in which each plan does business.

Adult and Child Interactions (Macro Parameter ADULTKID)

When the macro parameter ADULTKID equals 1, the macro creates adult and child interactions for the adjuster variables. The macro creates additional adjuster variables, with the a set naming convention, AC1, AC2, ..., ACn, where n is the total number of adjusters originally submitted in the macro call parameter ADJUSTER. When there is an adult and child interaction, the macro creates the ACx variables by looping through the list of adjusters.

For example:

If &ADJUSTER = GHR AGE EDUCATION, then the following additional interaction adjuster variables are created:

```
AC1 = GHR * CHILD
AC2 = AGE * CHILD
AC3 = EDUCATION * CHILD
```

Using the CAHPS Analysis Program

The steps described below assume a basic knowledge of how to use the SAS system.

Step 1: Loading the programs and test data

Version 3.6 of the *CAHPS® SAS Analysis Program* contains three core components:

- a SAS control program,
- a SAS macro, and
- a “Plan Detail” data file.

All program and data sets needed for the *CAHPS® SAS Analysis Program*, Version 3.6, were downloaded with your CAHPS Kit. Below is a description of the purpose of each file. Each file should be copied to a project folder related to the CAHPS data set that is to be analyzed.

CONTROL.SAS

CONTROL.SAS is a SAS program that contains examples of the macro call parameter arguments that need to be specified to produce the recommended reporting measures for the *CAHPS Health Plan Survey 3.0 -- Adult Commercial Questionnaire*. (Updated examples of the macro call are provided in the *Survey-Specific Analysis* Instructions found in each Kit.) The program also demonstrates the variable cleaning and coding steps needed to perform the analyses for plan-level comparisons. Modifications most likely will need to be made to this program to reflect how variables are named, how variables are coded or formatted, whether or not plan stratification is used, and whether or not the data set includes child surveys, among the many possible combinations.

CAHPS34b.SAS

CAHPS34b.SAS is the core SAS macro program that performs the analyses the user specifies in the control program. The macro file should not be modified.

PLANDTAL.DAT

This is a sample data set that is used by the CAHPS macro when running the TEST data set. It contains the unique plan names, combined strata names, strata weight, and subsetting code. If this file is not included in your control programs, the macro will create this data set based on the PLAN variable in the input data set.

SMALLTEST.SAS

This program creates a small data set with ten records that can be used to better understand what the CAHPS macro is doing. More details on how this data progresses through the macro can be found in the *Small Data Set Example* section in this document.

FORMAT.SAS

FORMAT.SAS is the SAS program that creates formats helpful to view the data with English words instead of the data values assigned in the TEST data set. The formats have the essence of the tables described in the section *SAS Data Set Requirements*. The program creates the formats in the library named LIBRARY as defined by the libname LIBRARY statement in CONTROL.SAS and TEST.SAS programs. The file, currently set up to work with the test data programs, can be modified for use with other data. Modifications, such as changing the values of the formats, adding new formats or deleting formats, are the most common.

TEST.SAS

TEST.SAS is a test control program for the CAHPS Analysis Program macros. It was designed for use with the test data sets described below. This program was constructed to provide users with a short program and data set that demonstrated the analysis options and output for Version 3.6 of the *CAHPS SAS Analysis Program*.

The hypothetical example was designed to incorporate a disproportionate sampling design of individuals in rural and urban areas for three health plans. One health plan (HMO_A) has members only in urban areas, while the other two plans (HMO_B, HMO_C) have members in both urban and rural areas. To make comparisons across the three plans, the data for the plans with members sampled from rural and urban regions need to be combined using weights.

Various options are used in the test program to demonstrate the analysis features available to the user. Analyses are performed for all three types of reporting items

(single questions, global ratings, and composites). A variety of analysis features are also used, including a varying number of case-mix adjustment variables, turning off the option that creates output data sets, and the weighting option.

TEST.SAS7BDAT, TEST.SSD01, TEST_windows.SAS7BDAT, TEST.SD2

TEST*. * files are SAS data sets that contain the same variables. TEST.SSD01 and TEST.SAS7BDAT are for use with UNIX SAS programs, and TEST.SD2 and TEST_windows.SAS7BDAT are designed for use with the Windows version of SAS. The table below describes the variables in the data sets and provides value labels for each variable. (Note that the test data files and sets were created for the CAHPS Health Plan Survey 3.0 and have not yet been updated.)

Table 1: Description of test data set variables

Variable	Description	Response options
ID	Respondent identification number	Unique numeric value
PlanID	Plan identification number	1=HMO_A_Urban 2=HMO_B_Urban 3=HMO_C_Urban 4=HMO_B_Rural 5=HMO_C_Rural .=Missing
Q31	Global rating of care	0 (worst) - 10 (best) .=Missing 98=Inapplicable 99=No Answer Given
Q38	Global rating of plan	0 (worst) - 10 (best) .=Missing 98=Inapplicable 99=No Answer Given
Q6	Problem to get doctor or nurse that you were happy with	1=A Big Problem 2=A Small Problem 3=Not a Problem .=Missing 98=Inapplicable 99=No Answer Given
Q10	Problem to get a referral to see a specialist that you needed	1=A Big Problem 2=A Small Problem 3=Not a Problem .=Missing 98=Inapplicable 99=No Answer Given

Variable	Description	Response options
Q22	Problem in getting the care you or doctor believed was necessary	1=A Big Problem 2=A Small Problem 3=Not a Problem . =Missing 98=Inapplicable 99=No Answer Given
Q23	Problem with delays in health care while waiting for approval from plan	1=A Big Problem 2=A Small Problem 3=Not a Problem . =Missing 98=Inapplicable 99=No Answer Given
Q05	Was it easy to find a personal doctor or nurse	1=Yes 2=No . =Missing 98=Inapplicable 99=No Answer Given
Q15	How often got the help or advice you needed	1=Never 2=Sometimes 3=Usually 4=Always . =Missing 98=Inapplicable 99=No Answer Given
Q17	How often got appointment as soon as you wanted	1=Never 2=Sometimes 3=Usually 4=Always . =Missing 98=Inapplicable 99=No Answer Given
Q19	How often got needed care as soon as you wanted	1=Never 2=Sometimes 3=Usually 4=Always . =Missing 98=Inapplicable 99=No Answer Given

Variable	Description	Response options
Q24	How often wait in doctor's office	1=Never 2=Sometimes 3=Usually 4=Always .=Missing 98=Inapplicable 99=No Answer Given
Q39	General health rating	1=Excellent 2=Very Good 3=Good 4=Fair 5=Poor .=Missing 99=No Answer Given
Q40	Age of respondent	1=18 to 24 2=25 to 34 3=35 to 44 4=45 to 54 5=55 to 64 6=65 to 74 7=75 or older .=Missing 99=No Answer Given
Q41	Gender	1=Male 2=Female .=Missing 99=No Answer Given
Q21	Office and clinic visits in the past 6 months	1=None 2=1 time 3=2 times 4=3 to 4 times 5=5 to 9 times 6=10 or more times .=Missing 99=No Answer Given

Step 2: Modifying CONTROL.SAS

CONTROL.SAS is a SAS program that invokes and executes the macro file, CAHPS34B.SAS, to perform basic analyses for the CAHPS surveys. This program can be modified to perform the analyses that the team has decided to conduct. Statements from CONTROL.SAS are demonstrated below. The user can alter this program to perform analyses on other data sets. The modifications demonstrated below apply to the test SAS program, TEST.SAS, as well. TEST.SAS demonstrates many of the key concepts for a limited number of variables described earlier. (Note

that the test data files and sets were created for the CAHPS Health Plan Survey 3.0 and have not yet been updated.)

Identifying the Data Set, Macros, Program, and Output File Locations

The program statements below specify the library reference and file names for the macros and data sets. These statements should be modified based on the location of the files. Note: The filename statements creating “logfile” and “outfile” are not necessary unless the user wants to save the log information to a file named CONTROL.LOG and the printed results to a file named CONTROL.TXT. The libname statement creating “out” statement is required to identify the location where the data sets of the summary results the program creates will be placed.

```
%let ProgramName = control ;
%let root = /data/cahpsmmc/analysis_program/version_3.0 ;

libname in "&root./sasdata/" ;
libname out "&root./sasdata/control/" ;
libname library "&root./sascatalog/" ;

filename logfile "&root./output/logs/&ProgramName..log" ;
filename outfile "&root./output/&ProgramName..txt" ;
filename cahps "&root./programs/cahps34b.sas" ;
filename plan_dat "&root./data_other/plandtal.dat" ;
```

Output Table Titles

The following code clears the SAS titles and footnotes from the output data tables. This step ensures that any titles and footnotes previously created in a SAS session are cleared before you execute the control program or macro.

```
title ;
footnote ;
```

Print the Output to a File

The following statements can be removed if the user does not want to save the results to an explicitly stated external file.

```
proc printto print = outfile new
    log = logfile new
;
run ;
```

To return the log and output to the default sources, include the following lines of code at the end of the control file.

```
proc printto ;
run ;
```

Data Set Specifications

The following statements prepare the test data set according to the specifications outlined under *Computing Requirements*. You may need to make modifications to the following statements depending on the variable names and variable response options in the data set. It is very important that all variables in that section are in a temporary or permanent SAS data set that will be used for the analysis. General health status (Q39) and age (Q40) variables are prepared as case-mix adjusters for illustrative purposes.

1. Set permanent or temporary SAS data set.

```
data adult ( drop = i ) ;
  set in.test ;
```

2. Recodes numeric plan variables to character to simplify interpretation of the result tables.

```
length plan $ 16 ;
if planid = 1 then plan = 'HMO_A_URBAN' ;
else if planid = 2 then plan = 'HMO_B_URBAN' ;
else if planid = 7 then plan = 'HMO_C_URBAN' ;
else if planid = 4 then plan = 'HMO_B_RURAL' ;
else if planid = 5 then plan = 'HMO_C_RURAL' ;
else if planid = 6 then plan = 'HMO_BE_1' ;
```

3. Creates visits variable.

```
visits = q21 ;
```

4. Creates child variable by coding it to 0 for all surveys.

```
child = 0 ;
```

5. Recodes dichotomous variables from 1-2 to 1-0.

```
array yn q05 q13;
do i = 1 to dim ( yn ) ;
  if yn [i] = 0 then yn [i] = . ;
  else if yn [i] = 2 then yn [i] = 0 ;
end ;
```

6. REVERSE codes item in which never is a positive response and always is a negative response.

```
array rev q24 ;
do i = 1 to dim ( rev ) ;
  if rev [i] in (1, 2, 3, 4) then rev [i] = 5 - rev [i] ;
  else rev [i] = . ;
end ;
```

7. Version 1.5 and higher of the CAHPS program does not automatically clean case-mix adjustment variables as previous versions did because it allows for a varying number and specification of the adjusters. If adjusters are used in the analysis they must be cleaned first.

```
age = q40 ;
ghr = q39 ;

if ghr not in (1, 2, 3, 4, 5) then ghr = . ;
if age not in (1, 2, 3, 4, 5, 6, 7) then age = . ;
```

CAHPS34b.SAS—Specifying Arguments and Options

The following statement includes the macro code CAHPS34b.SAS.

```
%include cahps ;
```

The macro call statements for CAHPS34b.SAS in CONTROL.SAS require that at least six arguments, (VAR, VARTYPE, NAME, ADULTKID, DATASET, and OUTNAME), be specified for it to work properly. These arguments, along with the 20 optional arguments, are listed in the table below with the valid value ranges. The six arguments must be specified for each analytic run of the global ratings and composites. If using adjusters, then the ADJUSTER argument is required. The macro call can be repeated any number of times in the SAS program for the different composites and ratings the user wants to compare. Users can also analyze the same composite or global rating more than once by using different macro arguments.

For each composite, the user needs to specify the items listed below in CONTROL.SAS. Arguments with an asterisk (*) are optional and are needed only in specific cases.

Table 2. Arguments for CAHPS 3.6 Macro

Option or argument	Description	Values
Var	Name of variable(s) in composite, or global rating	Name of variable(s) from SAS data set to include in composite or global rating. For composites, separate the variable names by a single space.
Vartype	Type of variable	1 = Dichotomous Scale (yes/no 0-1) 2 = Global Rating Scale (0-10) 3 = How Often Scale or other four-point response scale (“never” to “always” scale 1-4) 4 = Any type of three-point response scale (1-3) 5 = Other Scale (Must assign a value to min_resp and max_resp arguments)

Option or argument	Description	Values								
* Recode	Recodes the global rating* and the 'How Often' scales down to three categories before performing the case-mix adjustment and the statistical tests—the default value is 0	<p>0 = For the statistical tests, use default response options for the variables in the Var argument. For the “Percent of each response” table and report, split the “Rating” scale into three categories with the following break points, 0-6 7-8 9-10 or 1-2 3 4 for the “How Often” scale. Recode option is not needed in the CAHPS macro call if it = 0.</p> <p>1 = For the statistical tests, recode the Global Rating Scale (0-10, vartype = 2) and the “How Often” scale (1-4, vartype = 3) as:</p> <table data-bbox="987 821 1312 915"> <thead> <tr> <th>Rating</th> <th>How Often</th> </tr> </thead> <tbody> <tr> <td>0 - 6 = 1</td> <td>1 - 2 = 1</td> </tr> <tr> <td>7 - 8 = 2</td> <td>3 = 2</td> </tr> <tr> <td>9 - 10 = 3</td> <td>4 = 3</td> </tr> </tbody> </table> <p>If vartype is not equal to 2 or 3, then no recoding occurs for the statistical tests. For the “Percent of each response” table and report, split the “Rating” scale into three categories with the following break points, 0-6 7-8 9-10 or 1-2 3 4 for the “How Often” scale.</p> <p>2 = For the statistical tests, use default response options for the variables in the Var argument. For the “Percent of each response” table and report, split the “Rating” scale into three categories with the following break points, 0-7 8-9 10 or 1-2 3 4 for the “How Often” scale.</p>	Rating	How Often	0 - 6 = 1	1 - 2 = 1	7 - 8 = 2	3 = 2	9 - 10 = 3	4 = 3
Rating	How Often									
0 - 6 = 1	1 - 2 = 1									
7 - 8 = 2	3 = 2									
9 - 10 = 3	4 = 3									

Option or argument	Description	Values								
* Recode (continued)		<p>3 = For the statistical tests, recode the Global Rating Scale (0-10, vartype = 2) and the “How Often” scale (1-4, vartype = 3) as:</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding-right: 20px;">Rating</td> <td>How Often</td> </tr> <tr> <td>0 - 7 = 1</td> <td>1 - 2 = 1</td> </tr> <tr> <td>8 - 9 = 2</td> <td>3 = 2</td> </tr> <tr> <td>10 = 3</td> <td>4 = 3</td> </tr> </table> <p>If vartype is not equal to 2 or 3, then no recoding occurs for the statistical tests.</p> <p>For the “Percent of each response” table and report split the “Rating” scale into three categories with the following break points, 0-7 8-9 10 or 1-2 3 4 for the “How Often” scale.</p>	Rating	How Often	0 - 7 = 1	1 - 2 = 1	8 - 9 = 2	3 = 2	10 = 3	4 = 3
Rating	How Often									
0 - 7 = 1	1 - 2 = 1									
8 - 9 = 2	3 = 2									
10 = 3	4 = 3									
* Min_resp	Used with vartype = 5 only—the minimum response value	Can be any numeric value. It will be used as the low value for the valid response options.								
* Max_resp	Used with vartype = 5 only—the maximum response value	Can be any numeric value. It will be used as the high value for the valid response options.								
Name	Description of composite or global rating	Note: This argument is limited to 40 characters and can be numeric, text, or a combination of both.								
* Adjuster	Name(s) of adjuster variables	Name(s) of case-mix adjuster variables—separated by a space if using more than 1.								
* Adj_bars	Flag indicating if the frequencies for the response values are to be case-mix adjusted for the triple stacked bar—the default value is 0	<p>0 = Do not case-mix adjust the triple stacked bars.</p> <p>1 = Case-mix the triple stacked bars and store the adjusted frequencies along with the unadjusted frequencies.</p>								

Option or argument	Description	Values
* Bar_stat	Flag indicating if permanent data sets for the case-mixed frequencies should be saved—the default value is 0	0 = Do not case save the statistical results in data sets for the case-mix adjusted triple stacked frequency bars. 1 = Save the case-mix adjusted statistical results in permanent data sets for the triple stacked frequency bars.
* Impute	Imputation of missing data for adjuster variables—the default value is 0	0 = Do not impute mean values by plan for all adjuster variables. 1 = Impute mean values by plan for all adjuster variables.
* Even_wgt	Determines how to weight composite items—the default value is 1	0 = Use item weighting for composites. 1 = Use equal weighting for composites (1 / # of Items). 2 = Apply the respondent level weight, in WGTRESP, to the item weighting for composites.
* Kp_resid	Flag used to make the residual values from the SAS work data set RES_4_ID in the STD_DATA module. The residuals are the response values after case-mix adjustments have been made – the default value is 0	0 = Do NOT save the residual response values. 1 = Save the residual response values in a permanent data set.
Adultkid	Specifies how to analyze child and adult surveys	0 = Combine adult and child surveys in analysis; do not consider interaction effects in case-mix adjustment. This option can also be used if the data set contains only a single type of survey. 1 = Combine adult and child survey data in analysis; consider interaction effects between child and each case-mix adjuster variable. 2 = Analyze child data only. 3 = Analyze adult data only.

Option or argument	Description	Values
* Visits	Specifies whether to analyze high and low users together or separately (based on VISITS variable)—the default value is 1	1 = All visits. 2 = Low users only (< 3 visits per 6 months). 3 = High users only (≥ 3 visits per 6 months).
* Pvalue	Level of significance for comparisons—the default value is 0.05	0.05 recommended, but valid values are between 0 and 1.
* Change	Level of practical significance based on a percentage difference from the minimum absolute theoretical difference from the overall mean (can be used only with ‘ <i>p</i> -value’ criteria)—the default value is 0	Value between 0 and 1 (i.e., 25% is entered as 0.25).
* Meandiff	Level of practical significance based on absolute difference between plan mean and mean of all plans (can be used only with ‘ <i>p</i> -value’ criteria)—the default value is 0	Number ≥ 0.

Option or argument	Description	Values
* Wgtdata	Specifies whether samples are stratified within health plan—the default value is 1	1 = Do not invoke weighting macro 2 = Combine strata, weighting
* Wgtresp	Name of the variable storing the weight values for individual respondents.—the default value is blank	Blank or the name of a variable in the data set
* Wgtmean	Name of the variable storing the weight values for the plan means—the default value is blank	Blank or the name of a variable in the data set
* Wgtplan	Specifies whether to use plan weights for the plan level statistical test or not. The default value is zero.	0 = Do not use the plan weights when computing the overall mean for the comparison of plan means. Equal weighting will be used as in previous versions of the macro. 1 = Use the sum of the weights to the plan level of the variable specified in the parameter wgtmean. This weight is used for weighting the overall and grand means used in the statistical comparisons of the plan means.
* Id_resp	If there is unique variable in the data set that identifies each individual respondent, then this variable name may be entered here—the default value is blank	Blank or the name of a variable in the data set. This variable is included in the residual data set when kp_resid = 1. The variable will be a character and have a maximum of 50 characters.

Option or argument	Description	Values
* Subset	Perform the case-mix adjustments and statistical test based on each subset of plans; the subset code is a column in the plan detail file—the default value is 1	1 = No subsetting done. Global case-mix model and centering. 2 = Global case-mix model with centered means for each subset before performing statistical tests. 3 = Subset case-mix model with centered means for each subset.
* Splitflg	The default value of 0 lets the macro run the data set as usual with every plan centered to the same mean and the case-mix being run once. If the flag is set to 1 then the data set must contain the variable SPLIT and the values of this variable in the data set must be 0 and 1 for each plan subset.	0 = Run macro with one case-mix model 1 = Run macro with two case-mix models Example: Managed Care plans split=0 and for the other plans, Fee for Service, split=1. If there are any missing values for this variable, then these records are dropped from the analysis; the default value is 0.
Dataset	SAS data set name to be used in the analysis (variables recoded and renamed according to “Computing Requirements”)	Data set name depends on how you called in the file.
* Outregre	A flag that indicates whether or not to include the regression output text created by SAS, in the final text report file—the default value is 0	0 = No regression output appears in the text report file. 1 = SAS printout from the PROC REG is included in the text report file.
Outname	Part of SAS data set name for output tables created for summary results	Maximum length is five characters if using SAS 6, can be longer for SAS 8 or later. If the user does not want SAS data sets created enter ‘ ‘. Remember, the results tables will still be created for the .out file.

Examples of using these arguments with the TEST data set are listed below.

- * Executes CAHPS macro with global rating scale variable, no adjusters and combining strata.

```
%cahps (var = q38,  
vartype = 2,  
name = Rating Health Plan,  
adjuster = ,  
adultkid = 3,  
visits = 1,  
wgtdata = 2,  
dataset = test,  
outname = rplan ) ;
```

- * Executes CAHPS macro with “How Often” composite variables and the recode option = yes, item weighting option = yes and 2 adjusters;

```
%cahps (var = q15 q17 q19 q24,  
vartype = 3,  
recode = 1,  
name = Getting Care Quickly,  
adjuster = age ghr,  
impute = 1,  
adultkid = 3,  
wgtdata = 2,  
dataset = test,  
outname = quick ) ;
```

Interpreting the Results

The CAHPS Analysis Program prints the results of the analyses performed for each composite and global rating. The program produces plan-level estimates of missing data for the analysis items and case-mix adjusters, calculates the percentage of responses in each category, compares performance of plans on the reporting item, and flags plans with fewer than 100 responses. If adjusters are used, then the coefficients and the regression analysis are produced for each adjuster item. Examples of results tables from the test data set for global rating scales are reviewed below.

Please note that the results tables are also output to SAS data sets. These data sets implement the following naming conventions where &OUTNAME is the text assigned by the user to the variable “outname” in the CAHPS macro call.

Percentage Items Missing:	P &OUTNAME
Percentage of Each Response: (for Global Rating aggregates to 0-6, 7-8, and 9-10, or 0-7, 8-9, 10 for “How Often” Scale aggregates to 1-2, 3, and 4)	N &OUTNAME
Regression Coefficients:	C &OUTNAME
R-Squared Values	R2&OUTNAME
Residual Values (only if KP RESID = 1)	Y &OUTNAME
Overall Statistics for All Plans:	OA&OUTNAME
Star Ratings for All Plans:	SA&OUTNAME
Plans dropped by macro with only 0 or 1 record	DP&OUTNAME

* See the FAQs on the CAHPS Web site (<https://www.cahps.abrq.gov>) to learn more about the cutpoints for this scale.

If the stratified weighting option = 2, then the following data sets will be created for each unstratified plan.

Percentage Items Missing:	PW&OUTNAME
Percentage of Each Response:	NW&OUTNAME
Overall Statistics for All Plans:	OW&OUTNAME
Star Ratings for All Plans:	SW&OUTNAME

If the keep permanent data sets for case-mix adjusted frequencies option = 1 and the stratified weighting option = 1, (no stratified weighting), then the following data sets will be created.

Overall statistics for all plans for first bar/frequency:	F1&OUTNAME
Star rating details for all plans for first bar/frequency:	B1&OUTNAME
Overall statistics for all plans for second bar/frequency:	F2&OUTNAME
Star rating details for all plans for second bar/frequency:	B2&OUTNAME
Overall statistics for all plans for third bar/frequency (not for dichotomous variables):	F3&OUTNAME
Star rating details for all plans for third bar/frequency (not for dichotomous variables):	B3&OUTNAME

If the keep permanent data sets for case-mix adjusted frequencies option = 1 and the stratified weighting option = 2 (do stratified weighting), then the following additional data sets will be created.

Overall statistics for unstratified data for first bar/frequency:	FA&OUTNAME
Star rating details for unstratified data for first bar/frequency:	BA&OUTNAME
Overall statistics for unstratified data for second bar/frequency:	FB&OUTNAME
Star rating details for unstratified data for second bar/frequency:	BB&OUTNAME
Overall statistics for unstratified data for third bar/frequency (not for dichotomous variables):	FC&OUTNAME
Star rating details for unstratified data for third bar/frequency (not for dichotomous variables):	BC&OUTNAME

For a detailed description of the computation and statistical analyses used to develop these results, see the section **Explanation of Statistical Calculations**. At this point, all data elements have been collected to perform the testing on the hypothesis.

Warnings and Parameter Info

The following page of the SAS text output shows each of the parameter settings for the Analysis Program. You can use this to identify items you may want to consider when interpreting the results produced by the program, such as entities with fewer than 100 responses to an item after considering missing adjusters and analysis items. No SAS data set is produced that contains all this information.

Rating Scale (0 - 10): Rate Plan
 Analysis = ADULTS ONLY - Visits = COMBINE LOW AND HIGH USERS

```

*-----*
  CAHPS SAS Analysis Program Version 3.0
  Report run on 20 August 2002 at 13:07:12
*-----*
  
```

```

***** WARNING NOTE *****
  PLANS WITH FEWER THAN 100 CASES
  
```

```

-----

  Plan ID 2 - HMO_B_RURAL - 95 Cases
  Plan ID 4 - HMO_C_RURAL - 69 Cases

  
```

```

-----

  The Variable Item      = q38
  The Variable Type     = 2
  The 2 Adjuster Variables = ghr age
  
```

```

  Global Case-mix Model
  Global Centering of Means
  
```

```

  The RECODE parameter = 0
  The MIN_RESP parameter = 0
  The MAX_RESP parameter = 10
  The NAME parameter = Rating Health Plan
  The ADJ_BARS parameter = 1
  The BAR_STAT parameter = 0
  The IMPUTE parameter = 1
  The EVEN_WGT parameter = 1
  The KP_RESID parameter = 0
  The ADULTKID parameter = 3
  The VISITS parameter = 1
  The PVALUE parameter = 0.05
  The CHANGE parameter = 0
  The MEANDIFF parameter = 0
  The WGTDATA parameter = 1
  The WGTRESP parameter =
  The WGTMEAN parameter =
  The ID_RESP parameter =
  The SUBSET parameter = 1
  The SPLITFLG parameter = 0
  The data set used = adult
  The OUTREGRE parameter = 0
  The output data set suffix = q38
  
```

Percent of Items Missing by Health Plan

Rating Scale (0 - 10): Rating Health Plan
 Analysis = ADULTS ONLY - Visits = COMBINE LOW AND HIGH USERS
 PERCENT ITEMS MISSING BY HEALTH PLAN

	Global	General	Age of	
Total # of Health Plan Respondents	Rating	Health Plan	Rating	Adult
HMO_A_URBAN	345	30.43%	0.58%	1.16%
HMO_B_RURAL	134	29.10%	0.75%	1.49%
HMO_B_URBAN	530	24.15%	0.94%	1.70%
HMO_C_RURAL	90	23.33%	2.22%	0.00%
HMO_C_URBAN	874	29.18%	0.92%	0.69%

Report run on 20 August 2002 at 13:26:15
 CAHPS SAS Analysis Program Version 3.0
 Data Set out.p_q38

Definition of column headings	
Column	Description
Health plan	Health plan names based on the variable PLAN recoded from PLANID.
Total number of respondents	Total number of respondents in the data set by health plan. For illustration purposes, a plan with less than 100 respondents has been left in the sample output.
Global rating of plan (Label for the variable item Q38)	Percent of cases or records with each item response missing. At least two items must have a valid response to be included in the computation. The only answers counted as nonmissing by the SAS program for the global rating scales are the responses with integer values from 0 to 10. All other values are converted to the SAS missing value ‘.’. Computation of percent missing is based on the total number of patients in each plan.
General health rating (Label for the adjuster Q50 – GHR)	Answers counted as nonmissing by the SAS program are the responses excellent (coded 1), very good (coded 2), good (coded 3), fair (coded 4), and poor (coded 5). Computation of percent missing is based on the total number of patients in each plan.
Age of adult (Label for the adjuster Q51 - AGE)	Answers for adult surveys counted as nonmissing by the SAS program are the responses 18-24 (coded 1), 25-34 (coded 2), 35-44 (coded 3), 45-54 (coded 4), 55-64 (coded 5), 65-74 (coded 6), and 75+ (coded 7). Answers for child surveys counted as nonmissing by the SAS program are the responses <1 (coded 0), 1-3 (coded 1), 4-7 (coded 2), 8-12 (coded 3), and 13-17 (coded 4). Computation of percent missing is based on the total number of patients in each plan.

Percent of Composite Responses by Category¹

Rating Scale (0 - 10): Rate Plan
 Analysis = ADULTS ONLY - Visits = COMBINE LOW AND HIGH USERS
 PERCENT RESPONSE TYPE - NO IMPUTATIONS

Health Plan	Total # of Respondents	Number of Respondents Analyzed	% Rating		
			0 - 6	7 - 8	9 - 10
HMO_A_URBAN	345	240	17.08%	37.50%	45.42%
HMO_B_RURAL	134	95	21.05%	38.95%	40.00%
HMO_B_URBAN	530	402	15.92%	34.08%	50.00%
HMO_C_RURAL	90	69	15.94%	33.33%	50.72%
HMO_C_URBAN	874	619	15.19%	38.93%	45.88%

Health Plan	Adjusted Bar 1	Adjusted Bar 2	Adjusted Bar 3
HMO_A_URBAN	17.66%	37.99%	44.35%
HMO_B_RURAL	20.81%	39.35%	39.84%
HMO_B_URBAN	16.02%	33.90%	50.09%
HMO_C_RURAL	15.38%	32.57%	52.05%
HMO_C_URBAN	15.33%	38.98%	45.69%

Report run on 20 August 2002 at 13:26:15
 CAHPS SAS Analysis Program Version 3.0
 Data Set out.n_q38

Definition of column headings	
Column	Description
Health plan	Health plan names based on the variable PLAN recoded from PLANID.
Total number of respondents	Total number of respondents in the data set by health plan.
Number of respondents analyzed	Number of respondents with nonmissing values (as defined in Percent of Missing Items on page 44).
Percent Rating 0 - 6	Percent of Rating item with response values from 0 to 6, by health plan.
Percent Rating 7 - 8	Percent of Rating item with response values equal to 7 or 8, by health plan.
Percent Rating 9 - 10	Percent of Rating item with response values equal to 9 or 10, by health plan.
Adjusted Bar 1	Case-mix adjusted frequencies for bar 1, Percent of Rating item with response values from 0 to 6, by health plan.
Adjusted Bar 2	Case-mix adjusted frequencies for bar 2, Percent of Rating item with response values equal to 7 or 8, by health plan.
Adjusted Bar 3	Case-mix adjusted frequencies for bar 3, Percent of Rating item with response values equal to 9 or 10, by health plan.

¹ For a detailed explanation of how these calculations were performed, see the section called *Explanation of Statistical Calculations*.

Case-mix Adjuster Regression Coefficients

Rating Scale (0 - 10): Rate Plan
 Analysis = ADULTS ONLY - Visits = COMBINE LOW AND HIGH USERS
 REGRESSION COEFFICIENTS FOR ADJUSTER VARIABLES

Name	Variable split	Subset Name	Q38
ghr	0	GLOBAL	-0.4171
age	0	GLOBAL	0.3131

Report run on 20 August 2002 at 13:26:15
 CAHPS SAS Analysis Program Version 3.0
 Data Set out.c_q38

Definition of column headings		
Column	Description	
Variable name	Q39 = General health rating	Q40 = Age
	1 - Excellent	1 - 18-24
	2 - Very good	2 - 25-34
	3 - Good	3 - 35-44
	4 - Fair	4 - 45-54
	5 - Poor	5 - 55-64
		6 - 65-74
		7 - 75+
Split	If the SPLITFLG parameter equals 0, then there is no split for the case-mix regression and split is 0. If SPLITFLG equals 1, then the two regressions are run, one for each split, where split equals 0 and 1.	
Subset name	If subsetting is used for case-mix adjustment, the subset name or code is found in this column. Otherwise it defaults to GLOBAL; that is, it used all records in the case-mix adjustment regression.	
Q38	Regression coefficients for the Global Rating of Plan variable.	

R-Squared Values for Dependent Variables

Rating Scale (0 - 10): Rate Plan
 Analysis = ADULTS ONLY - Visits = COMBINE LOW AND HIGH USERS
 R-SQUARED VALUES for DEPENDENT VARIABLES

Split	Name	Subset variable	Dependent R-squared	Adjusted R-squared
0	GLOBAL	Q38	0.0765	0.0752

Report run on 20 August 2002 at 13:26:15
 CAHPS SAS Analysis Program Version 3.0
 Data Set out.r2q38

Definition of column headings	
Column	Description
Split	If the SPLITFLG parameter equals 0, then there is no split for the case-mix regression and split is 0. If SPLITFLG equals 1, then the two regressions are run, one for each split, where split equals 0 and 1.
Subset Name	If subsetting is used for case-mix adjustment, the subset name or code is found in this column. Otherwise it defaults to GLOBAL; that is, it used all records in the case-mix adjustment regression.
Dependent Variable	Global Rating of Plan variable.
R-squared	The R-squared value from the regression for the dependent variable.
Adjusted R-squared	The Adjusted R-squared value from the regression for the dependent variable.

Overall Statistical Test Results

Rating Scale (0 - 10): Rate Plan
 Analysis = ADULTS ONLY - Visits = COMBINE LOW AND HIGH USERS
 P-Value For Contrast = 0.05 - Change > 0 - Meandiff > 0
 Overall Statistics from t-test
 Ho: Plan Means All Equal

Name	Mean	Subset DFR	Overall DFE	F-Statistic	P-Value
GLOBAL	7.9767	4	1,418	1.4138	0.2270

Report run on 20 August 2002 at 13:26:15
 CAHPS SAS Analysis Program Version 3.0
 Data Set out.oaq38

Definition of column headings	
Column	Description
Subset Name	If subsetting is used for case-mix adjustment, the subset name or code is found in this column. Otherwise it defaults to GLOBAL; that is, it used all records in the case-mix adjustment regression.
Overall Mean	The mean of all the plan means.
DFR	The numerator degrees of freedom.
DFE	The denominator degrees of freedom.
F-Statistic	The results of the F-test on the null hypothesis.
P-Value	One minus the probability of the F distribution.

NOTE: “Ho” presents a global test of the null hypothesis that all plans have the same adjusted mean rating.

G. Statistical Test Performance by Health Plan

Rating Scale (0 - 10): Rate Plan
 Analysis = ADULTS ONLY - Visits = COMBINE LOW AND HIGH USERS
 P-Value For Contrast = 0.05 - Change > 0 - Meandiff > 0

ALL PLANS

Plan Name	Total# of Respondents	# of Respondents Analyzed	Unadjusted Plan Mean	Adjusted Plan Mean
HMO_A_URBAN	345	240	7.9708	7.9284
HMO_B_RURAL	134	95	7.7053	7.7148
HMO_B_URBAN	530	402	8.1493	8.1460
HMO_C_RURAL	90	69	7.9855	8.0311
HMO_C_URBAN	874	619	8.0727	8.0633

Plan Name	Plan Diff. From Overall Mean	Std Error of Difference	Variance of the Mean	Rating
HMO_A_URBAN	-0.0483	0.1084	0.0124	**
HMO_B_RURAL	-0.2619	0.1611	0.0360	**
HMO_B_URBAN	0.1693	0.0925	0.0070	**
HMO_C_RURAL	0.0543	0.1829	0.0486	**
HMO_C_URBAN	0.0866	0.0835	0.0044	**

Report run on 20 August 2002 at 13:26:15
 CAHPS SAS Analysis Program Version 3.0
 Data Set out.saq38

Definition of column headings	
Column	Description
Plan Name	Health plan names based on the variable PLAN recoded from PLANID.
Total Number of Respondents	Total number of patients in the data set by health plan.
Number of Respondents Analyzed	Number of respondents with nonmissing values (as defined above) for the composite.
Unadjusted Plan Mean	Average health plan composite not adjusted for age or health status.
Adjusted Plan Mean	Average health plan composite adjusted for age and health status.
Plan Diff. from Overall Mean	“Overall Mean” minus “Adjusted Plan Mean.”
Std Error of Difference	Standard error of “Plan Difference From Mean.”
Variance of the Mean	Variance of the plan means.
Rating	Star rating of plan performance for the global plan rating based on a comparison of plan’s “Adjusted Plan Mean” to “Overall Mean” Identifies statistically meaningful differences. * = Health Plan was significantly below average ** = Health plan was not significantly above or below average *** = Health plan was significantly above average

Small Data Set Example

This section uses a small data set with ten records, two plans, two questions, two adjusters and one weight variable to walk through an example of what happens to the data set as it moves through the CAHPS macro. The periods (.) in the table below represent missing values. The observation numbers are not a part of the data set; they are used only for reference purposes later. The sample tables after this one use the shorter column headings (Obs, Plan, Q1, Q2, A1, A2).

SAS data set SMALLTST						
Obs Observation	Plan	Q1 Question 1	Q2 Question 2	A1 Adj 1	A2 Adj 2	Weight
1	A	2	4	1	1	40
2	A	3	.	2	2	50
3	A	4	2	3	.	6
4	A	4	3	.	.	8
5	A	3	3	2	3	10
6	B	3	3	2	3	3
7	B	.	.	4	5	5
8	B	2	2	5	4	3
9	B	3	2	6	3	5
10	B	7	3	3	3	3

The plan detail file is created by the macro and looks like the data set below. This data set is used by the macro to identify the plans it needs to analyze and create sequential plan numbers for use within the macro. Plan A is assigned the value of 1 and Plan B is assigned the value of 2. The macro needs the numeric values to perform looping functions at various points. In the “ALLCASES” section of the macro, it merges this information with the SMALLTST data set. In this example, we do not perform any strata weighting or subsetting of the data, so the values for these fields are set to 1. For the remainder of this example, the plan names A and B are used and the internal macro identifications are ignored.

Plan details data				
Observation	Original plan	New plan	Population size (strata weight)	Subsetting code
1	A	A	1	1
2	B	B	1	1

This example follows two paths for the analysis of the composite measure Q1 and Q2. One uses no adjuster variables, **Run 1**, and the other uses the two adjusters, A1 and A2, without imputation of missing values of the adjuster's mean within plan, **Run 2**. The macro cleans (making sure the values are within the valid range for the given variable type) the items being analyzed, Q1 and Q2. In the macro call they were indicated as being a type 3 variable, which means the response values must be a 1, 2, 3, or 4. Any other response value is set to missing. In our small data set (observation 10), Q1 has a value of 7 so it is set to missing; all other values are fine. The adjuster values are not cleaned in the macro, so all values are accepted.

The first step in the macro that begins to prepare the data for the reports is the “USABLE” section of the macro. This checks for missing values in each observation and determines whether to keep the record based on the macro arguments. The results may differ depending on whether adjusters are used and whether missing adjusters get an imputed mean value. The observations that are dropped for Run 1 and Run 2 after the “USABLE” section are noted as follows:

Obs	Plan	Q1	Q2	A1	A2	Run 1 - No Adj	Run 2 - With Adj
1	A	2	4	1	1		
2	A	3	.	2	2		
3	A	4	2	3	.		A2 Missing
4	A	4	3	.	.		A1 & A2 Missing
5	A	3	3	2	3		
6	B	3	3	2	3		
7	B	.	.	4	5	Q1 & Q2 Missing	Q1 & Q2 Missing
8	B	2	2	5	4		
9	B	3	2	6	3		
10	B	.	3	3	3		

The next few sections of the macro use the records retained from the “USABLE” section, nine records for Run 1 and seven records for Run 2. These sections simply report and summarize that data for low number of respondents, percent missing for each variable, and the percent breakdown of the response categories. The next step is to standardize each analysis variable in the data to a mean of zero and perform the case-mix adjustment if there are adjusters, as in Run 2.

Next we must determine the case-mix adjusters for each plan and the residuals for each item to obtain the adjusted means and calculate the variance for each plan. In Run 1, we are not doing any case-mix adjustments, so the adjustment to the means is zero and the residuals are the standardized values in the above table. In Run 2, there are adjusters, so the macro performs the regression necessary to get the adjustments for the means and the residuals.

Adjustments (on mean = 0)		
Plan	Run 1	Run 2
A	0.00	-0.25
B	0.00	0.25

		Residuals			
		Run 1		Run 2	
Obs	Plan	Q1	Q2	Q1	Q2
1	A	-1.20	1.00	-0.67	0.50
2	A	-0.20	.	0.33	.
3	A	0.80	-1.00	NA	NA
4	A	0.80	0.00	NA	NA
5	A	-0.20	0.00	0.33	-0.50
6	B	0.33	0.50	0.33	0.50
7	B	NA	NA	NA	NA
8	B	-0.67	-0.50	-0.67	-0.50
9	B	0.33	-0.50	0.33	-0.50
10	B	.	0.50	.	0.50

The next step is to multiply each residual by the item's equal weight, 1/number items in the composite (0.50) and divide by the total number of valid responses within plan and item in the composite. Then we can sum the results of the weighted residuals for each composite record.

Obs	Plan	Run 1	Run 2
1	A	0.005	-0.09
2	A	-0.020	0.06
3	A	-0.045	NA
4	A	0.080	NA
5	A	-0.020	0.03
6	B	0.118	0.04
7	B	NA	NA
8	B	-0.174	-0.12
9	B	-0.007	0.06
10	B	0.063	-0.02

Next we sum the squared composite weighted residuals by plan.

Plan	Run 1	Run 2
A	0.009	0.01
B	0.048	0.02

The final step to prepare for the statistical test is to calculate the variance within the plan using the above results by plan, multiplied by the number of usable records, divided by the number of usable records minus one.

Plan	Run 1	Run 2
A	0.012	0.017
B	0.064	0.027

At this point, all data elements have been collected to perform the testing on the hypothesis.

Explanation of Statistical Calculations

The purpose of this section is to describe the CAHPS macros in sufficient detail so that a statistically sophisticated reader can understand what analyses have been applied and some of the essential details of the implementation.

General Description

The CAHPS macros are designed to carry out a series of standard analyses on cleaned CAHPS data sets.

Inputs to the macro. The input to the macro is a SAS data set with one observation per survey respondent. The data set may contain only child responses, only adult responses, or a mixture of the two. (If there is a mixture, an option must be selected to indicate which group(s) are included in the analysis.) See *Step 2, Modifying CONTROL.SAS* for more details on the preparation of the files.

Outputs and statistical tests. The macro produces the following printed outputs for each summary scale (0-10 single item scale) and composite evaluation item:

1. A summary of warnings and parameter information.
2. A summary of missing data (item nonresponse) rates by item and plan.

3. A summary table of responses by item and plan for each category (with “never” and “sometimes” combined for “How Often” Scale and 0-6, 7-8 and 9-10 combined for the Global Rating Scale).
4. If adjusters are used, a printout of the regression for each adjuster, a table of the adjuster coefficients and the dependent variable R-squared value.
5. Overall results of a summary hypothesis test indicating the strength of the evidence that the plan means are not all identical on the given item or composite.
6. A table summarizing the statistical analysis, which includes unadjusted and adjusted plan means (percent “yes” for “yes/no” items), differences from the overall mean and standard error of those differences, and star-ratings (one to three stars) indicating statistically significant differences.

Data Subsetting and Checking

Subsetting. If only adults or only children are being analyzed but the data file combines both groups, the appropriate records are selected. High users can be selected by specifying the appropriate macro argument.

Response option checking. Item responses are checked to make sure that they conform to the response options for that variable item. All other responses are converted to missing values. After this recoding operation, the percent of missing items by plan is calculated and printed for each item in the analysis.

Number of responses. The number of cases is calculated for each plan. If the number of cases in the analysis for a plan falls below a cutoff value (100 cases), a warning message is printed. This is only a warning and does not affect any further analyses.

Weighting Algorithm for Composites

Once the SAS program groups the questionnaire items, it then computes means for each plan for each composite and global rating. Because the composites include more than one item, a more elaborate computation is required to develop the mean. CAHPS uses item weights to compute the means of the composites for each plan. Two methods are available for computation of the item weights. First, the CAHPS macro now includes an option to use equal item weighting in the composite, `even_wgt = 1`, where the item weight equals one divided by the total number of items. So if equal weighting was chosen and there were four items in the composite, the item weight is $1/4 = 0.25$ for each item. By default, if `even_wgt` is not specified in the macro argument, then the composite uses even weighting. An advantage of this approach is that the relative weights of the items in the composite are consistent among survey administrations. Furthermore, survey sponsors may regard each item as equally

important even if some are answered more frequently than others. A disadvantage of this option is a possible loss of statistical precision if an item with few responses is combined, equally weighted, with an item with many responses.

A second approach weights items unequally, in proportion to the number of respondents. To use item weighting by number of responses, the argument `even_wgt = 0` must be entered into the macro call. The following brief explanation of the rationale for selecting this method of computing composite means is followed by a description of how the SAS program carries out the computation. Because there are differences among respondent experiences and, consequently, differences in the rates at which respondents use various services (expressed in skip patterns for various items), there are often different numbers of responses for the items that make up a composite. To reflect the differing numbers of responses by item, each item may be assigned a different weight in the composite score (an item weight). Items that receive a greater number of respondent answers count more toward the composite score. Thus, an item such as “how often did you need to see your personal doctor or nurse” generally has greater weight than “how often did you need to see a specialist” because more respondents are likely to need to see their personal doctors than a specialist.

One not very satisfactory way to create item weights for the composites is to develop a different set of weights for each plan being evaluated, proportional to the number of item responses at that plan. This means, however, that plan composite scores depend not only on the means on each item at the plan but also on the number of valid responses on each item available for that plan. Therefore, a plan could actually have a lower composite score just because it had a high number of responses to an item with generally low scores. Because such effects could distort comparisons among plans, we do not recommend this approach and it is not implemented in the macro.

Another option accounts for the different numbers of valid responses for each item within a composite but does so across all plans by standardizing the item weight. We consider this a valid approach to item weighting for the composites and have incorporated it into the Analysis Program. This approach prevents plans from faring worse or better just because they have fewer available valid responses because of skip patterns.

For composites, the results for the several items must be weighted together. For each composite, a set of data-determined item weights is calculated and used for all plans. The number of valid responses obtained for each item determines these weights.

The following is a formal description of the calculation of unequal item weights. Let

n_{ip}
= number of valid responses obtained from plan p on item i ,

$n_i = \sum_p n_{ip}$ = total number of valid responses obtained on item i ,

$w_i = n_i / (\sum_i n_i)$ = weight for item i , and

F_{ipr} = fraction of responses for item i for plan p that fall into response category r .

The sums are over items i that are part of this composite.

Then the weighted fraction for response category r in plan p is

$$\sum_i w_i F_{ipr}$$

Case-Mix Adjustment

Another important policy decision regarding the analysis of CAHPS data is whether and how to adjust the data for different case-mix patterns. The CAHPS Development Team has studied this issue, and its recommendations for the adjustment procedure are incorporated into the SAS code, although the user may choose what variables to adjust for. The following explains the importance of the adjustment and how it is implemented.

When comparing health plans on the basis of the ratings by individuals covered by those plans, it is important to adjust the data for patient characteristics known to be related to systematic biases in the way people respond to survey questions. This is called case-mix adjustment. It is automatically performed by the CAHPS Analysis Program if adjusters are specified. For example, if you know that people of a particular age group are reluctant to report problems and persons of that group are disproportionately enrolled in certain plans, it may be desirable to account for that when comparing data among plans. However, it is important to recognize that differences in patterns of responses may reflect real differences in quality of care as well as systematic biases. There is no way to separate these two types of differences based purely on statistical analysis of satisfaction data. The most popular methods for adjusting the data to account for differences in patient characteristics related to systematic biases are regression, stratification, and propensity score analysis, with regression being by far the most commonly used method.

Health status and age are two patient characteristics frequently found to be associated with patient reports about the quality of their medical care. People in worse health tend to report lower satisfaction and more problems with care than do people in better health. Older patients tend to report more satisfaction and fewer problems than do younger patients, although this association is usually not as strong as the one between health status and ratings.

Some CAHPS field test results confirm these general findings. For example, RAND and Harvard's field tests revealed that consumer ratings about health care were consistently higher for those in better health. Health status may be related to ratings of care because sicker persons are more likely to give negative ratings in general (response tendency), because some people are likely to give negative ratings about anything, including their health and the medical care they receive (correlated error), or because they get worse care. There is the same ambiguity with the age association.

Case-mix adjustment is intended to minimize the effects of differences between plans in background characteristics. The weighting algorithm for composites contributes one kind of case-mix adjustment, because it causes the items of a composite to be weighted together in the same proportions, regardless of differences in the response rates to the different items at different plans.

Another kind of case-mix adjustment applies to all of the items and potentially affects all reported results. This part of the adjustment uses a regression methodology, also called covariance adjustment. The user of the software chooses the adjuster variables. For illustrative purposes and because this has been a common choice in CAHPS so far, we assume in this discussion that the adjuster variables are age (AGE) and health status (GHR). If both adult and child records are in the same analysis, there are three additional adjuster variables: child indicator (CHILD), age \times child interaction, and health status \times child interaction. The inclusion of these three additional variables has the effect of fitting separate regression coefficients for the adjuster variables among children and adults.

If data are missing for an adjuster variable, the program either (at the option of the user) deletes the case or imputes the plan mean for that variable. The latter procedure avoids losing observations because of missing data; it is acceptable in this setting because, typically, both the size of the adjustment and the amount of missing data on adjusters are small.

Let y_{ipj} represent the response to item i of respondent j from plan p (after recoding, if any, has been performed). The model for adjustment of a single item i is of the form;

$$y_{ipj} = \beta_i' x_{ipj} + \mu_{ip} + \varepsilon_{ipj}$$

where β_i is a regression coefficient vector, x_{ipj} is a covariate vector consisting of two or five adjuster covariates (as described above), μ_{ip} is an intercept parameter for plan p , and ε_{ipj} is the error term. The estimates are given by the following equation:

$$\begin{pmatrix} \hat{\beta}_i' \\ \hat{\mu}_i' \end{pmatrix} = (\mathbf{X}'\mathbf{X})^{-1} \mathbf{X}' \mathbf{y}_i$$

where $\mu_i = (\mu_{i1}, \mu_{i2}, \dots, \mu_{ip})'$ is the vector of intercepts, \mathbf{y}_i is the vector of responses and the covariate matrix is

$$\mathbf{X} = (\mathbf{X}_a \quad u_1 \quad u_2 \quad \dots \quad u_p)$$

where the columns of \mathbf{X}_a are the vectors of values of each of the adjuster covariates, and u_p is a vector of indicators for membership in plan p , $p = 1, 2, \dots, P$, with entries equal to 1 for respondents in plan p and 0 for others.

Finally, the estimated intercepts are shifted by a constant amount to force their mean to equal the mean of the unadjusted plan means \bar{y}_{ip} (to make it easier to compare adjusted and unadjusted means), giving adjusted plan means

$$\hat{a}_{ip} = \hat{\mu}_{ip} + (1/P) \sum_p \bar{y}_{ip} - (1/P) \sum_p \hat{\mu}_{ip}$$

For single-item responses, these adjusted means are reported. For composites, the several adjusted plan means are combined using the weighted mean

$$\hat{a}_p = \sum_i w_i \hat{a}_{ip}$$

Variance Estimation

An approach to variance estimation is used which is applicable to both the single-item reports and the composites. Variances are calculated for the mean for each plan, conditional on the coefficients for the adjuster variables. Conditionally these means are independent (ignoring the recentering constant that is added to make the mean of the adjusted means equal to that of the unadjusted means for presentation purposes). Conditioning on the regression coefficients is a standard procedure in variance estimation in the analysis of surveys (see Cochran, *Sampling Techniques*, 1977, Chapter 7). It is not difficult to allow for the covariance of the adjusted means due to

uncertainty about the regression coefficients in the case of single-item reports, but it is difficult to do this in a general way for the multi-item composites, when the pattern of missing data varies by item. In the interests of consistency, we use the same procedure for both classes of reports.

We first calculate residuals from the regression model for every item response,

$$z_{ipj} = y_{ipj} - \beta_i x_{pj}$$

where β_i is the regression coefficient vector for item i and y_{ipj} is the response to item i from person j in plan p . The adjusted mean $\hat{\mu}_{ip}$ for plan p , item i , is the mean (across nonmissing observations) of z_{ipj} . If we replace z_{ipj} with 0 for all missing responses and define $r_{ipj} = 1$ if there is a nonmissing response and 0 otherwise, then we can write this as

$$\mu_{ip} = \left(\sum_j z_{ipj} \right) / \left(\sum_j r_{ipj} \right)$$

and the composite score for the plan is

$$\mu_p = \sum_i w_i \left(\sum_j z_{ipj} \right) / \left(\sum_j r_{ipj} \right)$$

Linearizing this expression by taking derivatives with respect to each of the sums $\sum_j z_{ipj}$ and $\sum_j r_{ipj}$, we obtain the following approximation:

$$\mu_p \approx \sum_j \left(1/n_{ip} \right) \sum_i w_i \left(z_{ipj} - r_{ipj} m_{ip} \right) = \sum_j d_{pj}$$

where $n_{ip} = \sum_j r_{ipj}$ is the number of responses to item i from plan p , d_{pj} is defined by the summand, and m_{ip} is the mean of z_{ipj} for the item i in plan p . We now apply the standard formula for the variance of an estimated sum,

$$\hat{V}_p = \widehat{Var}(\hat{\mu}_p) = \left(n_p / (n_p - 1) \right) \sum_j d_{pj}^2$$

where n_p is the number of respondents from plan p . This gives an estimate of a variance of the composite score for plan p . If the composite consists of a single item, or if there is no item nonresponse, these results correspond to the standard variance formula.

Note that we do not apply any finite population corrections in this variance calculation. The finite population correction is appropriate if the object of our inference is the mean rating from the population of members who are in plan p at the

present time. Our concern, however, is with the mean rating that is obtained if a new set of subscribers joins the plan, because we are attempting to give guidance to subscribers who are considering anew their choice of plans. Conceptually, we regard the present members as a sample from a super-population of potential members of the plan.

Combination of Strata

Versions 1.5 and higher of the CAHPS software permit stratified analyses. For these analyses, the adjusted means μ_s and variances V_s are first calculated separately for each stratum within each plan. These calculations are identical to those described above except that stratum within plan should be substituted every time there is a reference to plan. Then means are calculated by combining all the stratum means within each plan. Suppose that the stratum weights are W_s , where $\sum_{s \in p} W_s = 1$. (Here the sum is over all strata s within plan p .) Typically these stratum weights are defined as the fraction of the plan's total enrollment that falls in each stratum. The plan mean is calculated as $\hat{\mu}_p^* = \sum_s W_s \hat{\mu}_s$. The corresponding variance is calculated as $\hat{V}_p^* = \sum_{s \in p} W_s^2 \hat{V}_s$. The quantities $\hat{\mu}_p^*$ and \hat{V}_p^* are then used in the remaining solutions in place of $\hat{\mu}_p$ and \hat{V}_p .

Hypothesis Tests and Assignment of Final Ratings

Global F -test. The first test calculated is intended to determine whether there is evidence for differences among plan means. If this test does not find significant differences, it is not necessarily appropriate to report results by plan on the corresponding item or composite.

The weighted mean is calculated as

$$\hat{\mu} = \left(\sum_p \hat{\mu}_p / \hat{V}_p \right) / \left(\sum_p 1 / \hat{V}_p \right)$$

Then the F -statistic is calculated as

$$F = (1/(P-1)) \sum_p (\hat{\mu}_p - \hat{\mu})^2 / \hat{V}_p$$

This statistic has an approximate F distribution with $(P-1, q)$ degrees of freedom; we have found in simulations that $q = n/P$ (the average sample size per plan) makes the F -test at worst slightly conservative with typical sample sizes and response distributions. In other words, reported p -values from the test are slightly larger than they should be, so significant differences are less likely to be declared.

***t*-tests for plan differences from mean.** We compare each plan mean to the mean of the plan means using a *t*-test. The corresponding contrast is

$$\Delta_p = \hat{\mu}_p - (1/P)\sum_{p'} \hat{\mu}_{p'} = ((P-1)/P)\hat{\mu}_p - \sum_{p'}^* (1/P)\hat{\mu}_{p'}$$

where Σ^* represents a sum over all plans except plan p . Note that the last expression is simply $(P-1)/P$ times the difference of $\hat{\mu}_p$ from the mean of all plans except plan p ; therefore the two formulations (mean vs. mean of all, or mean vs. mean of all others) are equivalent. The variance of Δ_p is

$$\hat{V}(\Delta_p) = [(P-1)/P]^2 \hat{V}_p + 1/P^2 \sum_{p'} \hat{V}_{p'}$$

and the *t*-statistic is calculated as $\Delta_p / \hat{V}(\Delta_p)^{1/2}$, and referred to a *t* distribution with $(n_p - 1)$ degrees of freedom, which again is usually slightly conservative.

Assignment of star ratings. An “average” plan is assigned two stars. One or three stars are assigned on the basis of simultaneously satisfying a criterion of statistical significance and one of substantive significance. The difference of a plan from the mean is deemed to be statistically significant if the two-sided *p*-value of the *t*-test described above is smaller than a predetermined level. The comparison value for determination of substantive significance is a minimum difference determined as $\Delta_0 = K \min(\hat{\mu} - \mu_{\text{low}}, \mu_{\text{high}} - \hat{\mu})$, where $\hat{\mu}$ is the overall mean, μ_{low} and μ_{high} are the lowest and highest possible values of the score and K is a fixed constant chosen by the user. A star is given or removed (relative to two stars) only if the difference is statistically significant and also $|\hat{\mu}_p - \hat{\mu}| > \Delta_0$. (If $K = 0$ then $\Delta_0 = 0$ and the second part of the criterion has no effect.)

Examining Sample Size Issues for CAHPS Surveys

To examine the effect of small sample sizes, the CAHPS Team looked at the data from the demonstration sites for the CAHPS Health Plan Survey 3.0. In each site the range of number of plans was 2 to 27, with a mean of 10 plans. The minimum sample size per reportable measure ranged from 17 to 418 (mean = 155) and the average sample size ranged from 46 to 468 (mean = 238). The percentage of two star plans per reportable measure ranged from 0 to 100 percent with an average of 71 percent.²

² Dichotomous items were excluded in these calculations because *CAHPS Health Plan Survey 3.0* does not include them.

The observed site data were used to estimate power for different combinations of number of plans and sample size per plan. Table 3 provides effect sizes (difference between the mean of one plan and the mean of all other plans/ $\sqrt{\text{MSE}}$) that can be detected with 80 percent power and alpha of 0.05 (two-tailed) for 2, 5 and 15 health plans with health plan sample sizes varying from 40 to 300. Note that the effect size that can be detected with a sample size per plan of 300 for two health plans is similar to the effect that can be detected for a sample size of 200 when there are 5 health plans (effect sizes of 0.23 and 0.22, respectively). Similarly, the effect size detectable is comparable for two plans with $n = 100$ per plan versus five plans with $n = 60$ per plan (0.40 and 0.41, respectively).

Table 3: Effect size detected with 80 percent power (alpha = 0.05) by number of plans and sample size per plan

Sample size per plan	2 plans	5 plans	15 plans
300	0.23	0.18	0.17
200	0.28	0.22	0.21
100	0.40	0.32	0.29
80	0.45	0.35	0.33
60	0.51	0.41	0.38
40	0.63	0.50	0.46

Table 4 provides information about the effect size detectable for one plan when the sample size of all plans except that one is fixed at 300. These effect sizes are similar to those reported in Table 5-1 with a few exceptions (lower left corner of tables), revealing how small sample size for one plan has a major impact on the power to detect a difference between the plan and the other plans.

Table 4: Effect size detected with 80 percent power (alpha = 0.05) by number of plans and sample size for one plan (n = 300 for all other plans)

Sample size for plan	2 plans	5 plans	15 plans
300	0.23	0.18	0.17
200	0.26	0.22	0.21
100	0.33	0.29	0.29
80	0.35	0.33	0.32
60	0.40	0.37	0.37
40	0.47	0.45	0.45

As an illustration of how effect sizes translate into CAHPS scale points, adult data from one of the sites were examined for the rating of specialist care. Sample sizes ranged from 32 to 104 per plan (mean = 67). Seven of the 10 plans received two stars, one plan received a single star, and two plans received three stars. The overall mean on the item was 8.30 and the smallest plan difference from the mean of other plans that was statistically significant was 0.24 (standard error of difference = 0.12) for a plan with 57 completes. The estimated square root of MSE ($SE_d/\text{SQRT}(1/n_1 + 1/(N-n_1))$) is 0.83. Thus, the observed effect size for this difference was 0.28 (a relatively small effect). Assuming a similar MSE, we have 80 percent power ($\alpha = .05$) to detect differences between one plan and the mean of the other plans of 0.33, 0.27 and 0.24 on the 0-10 scale for sites with 2, 5 and 15 plans, respectively, when the sample size of each plan is 100. Note that these differences correspond to 0.19, 0.16 and 0.14 on the CAHPS “meaningful differences” scale (proportion of the distance from the mean to the nearest extreme).

Implications of this Analysis

The power to detect a difference between one plan and the mean of the other plans depends upon the sample sizes for all plans (although the sample size of the plan in question has an especially important influence) and the number of plans. With the current CAHPS recommendation of a sample of 100 per health plan per reportable item, there is adequate power to detect an effect size of 0.29 (15 plans) to 0.40 (2 plans) if every plan has the minimum sample size. A similar effect size (0.38) can be detected for a sample size of 60 per plan if there are a total of 15 plans. It is important to note, however, that these power calculations pertain only to the determination of the number of stars a plan receives. The CAHPS bar charts provide an opportunity for pair-wise comparisons and the sample size requirements for a given power are therefore larger.

Appendix

Summary of Features Included in Each Version of the CAHPS Analysis Program

Version 1.0 of the CAHPS SAS Analysis Program offered the following features:

- An assessment of significance using practical and statistical (p -value) criteria;
- An option to analyze data based on outpatient utilization groupings;
- An option to analyze child and adult data together or separately;
- Comparisons of health plan performance; and
- Case-mix adjustments.

Version 1.5 of the CAHPS SAS Analysis Program added the following enhancements:

- **Weighting and stratification.** The SAS program performs the correct analyses for disproportionate stratified sampling designs. One way such designs might appear is when two plans that were surveyed separately have subsequently merged their operations into a single business entity, and their results will be reported as a single plan. They also may appear when the sponsor decides to collect additional surveys by using larger sample sizes for a certain subset of people (based on geographic area, gender, age groups, etc.) beyond what would appear there by proportionate allocation. To use this feature, the user must specify which strata are combined and the number of members in each stratum out of the entire population (the weights).
- **Plan name flexibility.** Plan identifiers for programming and output purposes are no longer required to be numeric. Text or numeric names are allowed to facilitate programming and interpretation of results.
- **Case-mix adjusters.** The program no longer requires two case-mix adjusters (age and health status) to be used in the analyses. The user can now specify an unlimited number of adjuster variables or choose not to adjust the data.
- **Substantive differences.** A new method of specifying an absolute difference that must be achieved before a difference is meaningful has been added to the program. While the previous method of determining a meaningful difference is still available, the user can now simply choose an absolute difference that must exist between means for a difference to be flagged as significant.

- **Results tables.** Version 1.5 has an additional feature that creates SAS data sets of the results tables the program produces. This allows users to perform additional analyses on the aggregate results or to create summary reports. Linear regression coefficients for the adjuster variables are now output as part of the results tables and reports.
- **Missing data for adjusters.** In the initial version of the Analysis Program, missing data for the case-mix adjustment variables was imputed at each item's health plan mean. Version 1.5 allows the user to specify whether or not the analysis is conducted with imputation for the adjuster variables.

Version 2.0 and 2.1 of the CAHPS SAS Analysis Program added the following enhancements and changes:

- The SAS code has been converted to **require only Base SAS and the SAS/STAT** module, eliminating the need for SAS/IML. If adjuster variables are excluded, then the REG procedure in the SAS/STAT module is not needed. The code has been modularized into macros to aid in maintaining the macro and understanding what the macro is doing.
- The macro now has two **additional ways in which to subset the data** being run through the Analysis Program without having to create separate calls of the Analysis Program. With SUBSET = 2, the Analysis Program runs the case-mix model on the entire data set but does the plan/unit comparisons at the subset levels specified in the fourth column of the plan detail file created by the user. With SUBSET = 3, the Analysis Program does both the case-mix and the plan/unit comparisons at the subset levels.
- **Data sets are now created for the output** of the case-mix and hypothesis test calculations. This allows for easy export to Excel or other programs for report generation.
- The **composites are no longer restricted to the “How Often” (1-4) question responses.** The variable type is indicated in the macro call and the macro runs a composite calculation if the number of variables is greater than one. This change was made to accommodate the need to create composites from questions with dichotomous and trichotomous variables. The program can now create composites using all variable types used in the survey
- The **weighting of the composite items** now has the option of doing **equal weighting** across items as well as **weighting based on the number of responses** in each item divided by the total number of responses in all items. The default option for the macro is to use the equal weighting.

- An option is available for **recoding the global rating scales** from 0 – 10 to 1 – 3 and the **“How Often” scales** from 1 – 4 to 1 – 3 using the new parameter RECODE. The primary rationale for the recoding into three categories is to make the data entering into the hypothesis tests entirely consistent with the information presented in the “Bar Graph” reports.

A secondary rationale for recoding is that it may improve the statistical properties of the tests. On general statistical principles, it would not be surprising if the analysis of very skewed data were improved by a transformation that reduced the skewness. In the CAHPS survey, it is plausible that the difference between 0 and 2, both indicating strong dissatisfaction, carries with it less information than the difference between 8 and 10, reflecting average and maximum satisfaction, respectively. Therefore, combining categories at the low end of the scale may remove some meaningless variation from the data. Statistical improvement would be reflected in larger values of the *F*-statistic in the recoded data compared to the original data.

The recoding is defined as:

Rating scale		How often scale	
Response value	Recode	Response value	Recode
Option 1:			
0 – 6	1	1 – 2	1
7 – 8	2	3	2
9 – 10	3	4	3
Option 2:			
0 – 7	1		
8 – 9	2		
10	3		

- A new parameter, **KP_RESID**, has been added to the macro call to allow **the residual values from the regression to be saved** as a permanent SAS data set. By default, these values are only saved temporarily while the macro is running.

Version 3.0-3.3 of the CAHPS SAS Analysis Program adds the following enhancements and changes:

- The **plan detail file**, plandtal.dat, and the filename statement that assigns **PLAN_DAT are now optional**. If the plan detail file does not exist, then

the macro uses the PLAN variable in the dataset called by the CAHPS macro. If used, the plan detail file must have a unique record for each plan name or code. Only the first column is required; if the second column is missing, then the macro creates dummy values for the new plan name equivalent to the first column. If the third and fourth columns have missing values, then they are all set to the value of 1. Each column must be separated by spaces.

- The Analysis Program **now removes any plans that are to be analyzed that have only zero or one usable records.** These changes were made in the submacro USABLE. The plans that are dropped by the macro are saved in a permanent SAS data set labeled dp&outname.
- **The CHILD variable is now optional.** If it does not exist, then the macro creates the variable CHILD. If the ADULTKID parameter is set to 2, then the macro assumes all records in the analysis data set are child records and sets CHILD = 1, otherwise CHILD will be set to 0, indicating there are no child records. If there is a mix of child and adult records in the data set, the user must set up a variable named CHILD and set it equal to 1 for child records and some other value, usually 0 for adult records. Version 3.3 of the CAHPS macro corrects a logic error found in version 3.2 of the macro.
- **The EVEN_WGT parameter now can apply individual level weights to the composite items.** This third option is activated by setting EVEN_WGT=2 and uses the weight variable, referenced by WGTRESP.
- The **variance of the mean** variable, vp, has been added to the text output of the adjusted mean report.
- A **CAHPS version label** has been added to the permanent data sets to indicate which version of the CAHPS Analysis Program created the data set. The version number has also been added to the text output.
- Users can now **case-mix the triple-stacked bar frequencies,** using the **ADJ_BARS** parameter, and include both the non-case-mixed frequencies with the case-mixed frequencies in the final frequency output data set, n_*. For variables of type 5 (vartype = 5), these cannot have case-mixed bars since the frequencies for the response values are not aggregated into three bars. To make this work for nonstandard variable types, it is best to do some recoding first to make the three desired ranges and then run the new variable through as a vartype = 4.

The following parameters have been added:

- The parameter **ID_RESP** stores the original respondent ID value, if one exists, in the permanent data sets. If there is a unique variable in the data set that identifies each respondent, then enter the variable name in this parameter. The macro carries it through the individual data sets and attaches it to the residual data set if KP_RESID = 1 so the data set can be easily linked to the original if needed. If no ID variable is entered, then the ID_RESP variable in the macro is set to '.z'. The variable will be a character and have a maximum of 50 characters.
- The parameter flag **OUTREGRE** indicates whether or not the regression output should appear in the text output file. If set to 0, the default, then the SAS printed output from the regressions in the case-mix procedure is not printed out into the output file. If set to 1, then the regression output appears.
- The parameter **WGTRESP** accepts the variable name that contains the weights for individual respondents. This weight is used in the case-mix adjustment regression procedure.
- The parameter **WGTMEAN** accepts a variable that contains the weights to be applied to the means of the plans before the case-mix adjustments are applied.
- The parameter **SPLITFLG** allows the data set to be split into two groups for the purpose of centering the means differently and running two case-mix models through the macro. This was done to deal with the Medicare Managed Care and Fee-for-Service analysis. By default, the parameter is 0 and is not used but, if set to 1, then the data set must contain a variable with the name SPLIT and must have the values of 0 and 1. Any record with a missing value is dropped from the analysis.
- The parameter **BAR_STAT** stores the results of the case-mixed bars in permanent data sets with the same format as the case-mixed survey question results. The new data sets created have the format B#&outname and F#&outname where the B* files hold the stars and statistics by plan and the F* files hold the overall means and statistics. The # has the values 1-3 for a normal macro run, where 1 = the first bar frequency, 2 = the second bar frequency, and 3 = the third bar frequency if it is not dichotomous. &outname is the value given in the macro call parameter OUTNAME. If the data are stratified and stratification weights are used by having the macro parameter WGTDATA = 2, up to six additional files are created with # having the values A-C, where A = the first bar frequency of the combined strata, B = the second bar frequency of the combined strata, and C = the third bar frequency of the combined strata.

- Version 3.3 **corrects a logic error**, contained within version 3.2, that occurred when the parameter **SUBSET = 3**, which runs the macro multiple times based on the subsetting variable in the plan detail file referenced by the FILENAME PLANDTAL statement.
- The text output on the **Warnings and Parameter Info page contains more accurate information about the adjusters** when there are child interactions, when **ADULTKID = 1**. The number of adjusters will reflect the original adjuster variables times 2 plus 1, so if there are originally 2 adjusters, the total number of adjusters with child interactions will be 5, ADJ#1, ADJ#2, ADJ#1 * CHILD, ADJ#2 * CHILD, and CHILD.
- Added two **flag lines to the log file** that will indicate if the macro **finds the CHILD and PLAN variables** in the original analysis data set. If there is no child variable, the flag will indicate how the macro created a new CHILD variable.

Version 3.4 (May-June 2003) of the CAHPS SAS Analysis Program adds the following enhancements and changes:

- Added three **additional variables to the sa* data set and the output text** of the statistical tests. The **unweighted, unadjusted plan mean** was added to help clarify what the unadjusted mean actually is. Only when the wgtmean parameter is used will the unweighted, unadjusted mean be different from the weighted unadjusted mean. The other variable added is the **95% Confidence Limits for the Difference of the Mean**. This is computed as 1.96 * the standard error of the difference. When wgtplan = 1, then a third column containing the **summed weights for each plan** will also be added to the sa* data set, the b* dataset if frequency bars are to be stored (bar_stat = 1) and the output text.
- Added in the **weighted, unadjusted frequencies** to the frequency table n_* data set and the output text, when the frequency bars are also case mix adjusted.
- The **wgtmean** parameter purpose has been **expanded** to allow for the use of the **sum of the weights to the plan level to be used in the comparison of the plan means**. If a variable exists for the wgtmean parameter, then the individual record level weight is used to compute the weighted, unadjusted plan means. In addition, if the new parameter wgtplan = 1, then the sum of the individual weights to the plan level will be used in weighting the plan mean comparisons. The wgtplan parameter can have the value of 0, default, or 1. When 0, the macro will use equal weights when comparing the plan means. When 1, and the wgtmean parameter has a variable listed, then the sum of the weights to the plan level will be used

computing the overall and grand means which are used in the statistical comparisons of the plan means.

- Added checks on the DATASET parameter to make sure it exists or that the value in the DATASET parameter is a valid SAS data set. If there is an error, the macro will stop processing and print an error message to the log file.
- Added error checking on the merging of the plan detail file with the analysis dataset. If there are no records matching, then the macro will print out the frequencies of the unique PLAN values for both the plan detail file and the analysis data set to the output text file and also print out an error to the log file.

Version 3.5 (September 2005) of the CAHPS SAS Analysis Program added the following enhancements and changes:

- A disclaimer and copyright statement were added.
- If weights are being used for the individual or plan means, records with weights that are less than zero or missing are removed.
- When macro converts the numeric plan in allcases to character, it left justifies and trims trailing blanks.
- The macro checks that there are plans in all subcodes after the usable data set is made. If some subcodes have all missing plans, it recomputes how the subcodes are used in the looping in the star macro.
- The log comment for when child variable is not found in the original data set was changed.
- A bug was identified in the CAHPS 3.4b macro: Two lines that have length planname \$ 20 when it should be \$ 40 causing a merge problem with the N_* data sets. \$ 20 was changed to \$ 40.

Version 3.6 (April 2006) of the CAHPS SAS Analysis Program added the following enhancements and changes:

- This new version corrects an error in some previous versions affecting calculation of the variances for the comparison of a plan mean to the mean of all other plan means, when the plans were weighted. This error only affects analyses with parameter wgtplan=1 using CAHPS macro versions 3.4b (released May 2003) and 3.5 (released September 2005). By default, the macro sets wgtplan=0 so the error does not affect unweighted plan analysis.

The error caused significance tests to be calculated incorrectly when determining whether a plan's mean was significantly above or below the average. This could cause some plans to be declared 1- or 3-star plans when they were respectively below or above average, but not by a statistically significant amount.

- (July 2006) Modified formula for special case of using only one plan unit and a division by zero error may occur. This case used to work in prior versions. Modified code for checking if SE may be missing to set T=0 in that case. Also, VO can now have a zero denominator, in the case where there is only one unit being analyzed, modified code to catch that error.

(3.6b as of June 2007) This modification to Version 3.6 puts the `_wgtmean` variable in the strata data step in order to address a problem with a missing line that was not keeping the `_WGTPPLAN` variable in the data step that created `wstemp`. Because of the missing line, the use of `wgtdata=2` for combining strata generated a SAS error.

Patient Experience Measures from the CAHPS® Surgical Care Survey

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Introduction

The CAHPS Surgical Care Survey generates two types of results for reporting purposes:

- **A global rating item**, which uses a scale of 0 to 10 to measure respondents' assessments of their surgeon.
- **Composite measures** (also known as reporting composites), which combine results for closely-related items that have been grouped together. Composites are used because they keep the reports comprehensive yet of reasonable length. Also, psychometric analyses indicate that they are reliable and valid measures of patients' experiences.^{1,2,3}

This document provides a list of the measures, labels, and descriptions that you can use for internal and public reports, and tables showing which items are included in each measure.

For guidance on how to select and display scores for these measures, refer to *How To Report Results of the CAHPS Clinician & Group Survey*

(<https://www.cahps.ahrq.gov/Surveys-Guidance/CG/~media/Files/SurveysandGuidance/CGKit/HowtoReportResultsofCGCAHPS080610FINAL.pdf>.

PDF Help should go to: <https://www.cahps.ahrq.gov/PDF-Help.aspx>).

Descriptions of Composite Measures and Rating Item

The Surgical Care Survey composite measures represent the experiences of respondents in the following areas:

- Information to help you prepare for surgery (2 items)
- How well surgeon communicates with patients before surgery (4 items)
- Surgeon's attentiveness on day of surgery (2 items)
- Information to help you recover from surgery (4 items)
- How well surgeon communicates with patients after surgery (4 items)
- Helpful, courteous, and respectful staff at surgeon's office (2 items)

¹ McGee J, Kanouse DE, Sofaer S, Hargraves JL, Hoy E, Kleimann S. Making survey results easy to report to consumers: How reporting needs guided survey design in CAHPS®. *Med Care*. 1999 Mar;37(3 Suppl):MS32-40.

² Solomon LS, Hays RD, Zaslavsky AM, Ding L, Cleary PD. Psychometric properties of a group-level Consumer Assessment of Health Plans Study (CAHPS) instrument. *Med Care*. 2005 Jan;43(1):53-60.

³ Hays RD, Chong K, Brown J, Spritzer KL, Horne K. Patient reports and ratings of individual physicians: An evaluation of the DoctorGuide and Consumer Assessment of Health Plans Study provider-level surveys. *Am J Med Qual*. 2003 Sep-Oct;18(5):190-6.

Organizations reporting the results of the CAHPS Surgical Care Survey can use the following labels and descriptions of the reporting measures in reports for consumers and other audiences.

Information To Help You Prepare For Surgery

The survey asked patients whether their surgeon or a health provider from this surgeon's office

- Gave all the information they needed before surgery.
- Gave easy to understand instructions.

How Well Surgeon Communicates With Patients Before Surgery

The survey asked patients whether, before their surgery, the surgeon

- Listened carefully to them.
- Spent enough time with them.
- Encouraged them to ask questions.
- Showed respect for what they had to say.

Surgeon's Attentiveness on Day of Surgery

The survey asked patients whether their surgeon

- Visited them before surgery.
- Discussed the outcome of their surgery.

Information To Help You Recover From Surgery

The survey asked patients whether their surgeon or a health provider from this surgeon's office

- Explained what to expect during recovery.
- Warned them about symptoms that need immediate attention.
- Gave easy to understand instructions about what to do during recovery.
- Made sure they were physically comfortable or had enough pain relief after leaving the hospital or surgery facility.

How Well Surgeon Communicates With Patients After Surgery

The survey asked patients whether, after their surgery, the surgeon

- Listened carefully to them.
- Spent enough time with them.
- Encouraged them to ask questions.
- Showed respect for what they had to say.

Helpful, Courteous, and Respectful Staff at Surgeon's Office

The survey asked patients whether clerks and receptionists at the surgeon's office

- Were as helpful as they thought they should be.
- Treated them with courtesy and respect.

Patients' Rating of the Surgeon

The survey asked patients to rate their surgeon on a scale of 0 to 10, with 0 being the worst and 10 being the best.

Appendix A lists the questions for each of the composite measures and the overall rating used to report results from the CAHPS Surgical Care Survey.

How to Calculate Composite Scores for Reporting

The calculation of CAHPS survey composites uses a proportional scoring method, which basically generates a proportion for each response option.

There are three basic steps to this approach:

1. Calculate the proportion of patient responses in each response category for each item in a composite.
2. Combine these proportions for all items in a composite.
3. Adjust for the case-mix of the patients who evaluated each surgeon to allow comparison of scores across surgeons.

Appendix B spells out the first two steps in greater detail.

This approach provides users with several options for reporting. Two recommended strategies are average scoring and “top box” scoring, which involves reporting only the score for the most positive categories (e.g., the proportion of patients reporting “Yes, definitely”). To learn more about these strategies, go to *How To Report Results of the CAHPS Clinician & Group Survey* (<https://www.cahps.ahrq.gov/Surveys-Guidance/CG/~media/Files/SurveysandGuidance/CGKit/HowtoReportResultsofCGCAHPS080610FINAL.pdf>). PDF Help should go to: <https://www.cahps.ahrq.gov/PDF-Help.aspx>).

Appendix A: Reporting Composites and Overall Rating

Information To Help You Prepare For Surgery

Q3	Before your surgery, did anyone in this surgeon's office give you all the information you needed about your surgery?	Response Options <ul style="list-style-type: none"> ▪ Yes, definitely ▪ Yes, somewhat ▪ No
Q4	Before your surgery, did anyone in this surgeon's office give you easy to understand instructions about getting ready for your surgery?	

How Well Surgeon Communicates With Patients Before Surgery

Q9	During your office visits before your surgery, did this surgeon listen carefully to you?	Response Options <ul style="list-style-type: none"> ▪ Yes, definitely ▪ Yes, somewhat ▪ No
Q10	During your office visits before your surgery, did this surgeon spend enough time with you?	
Q11	During your office visits before your surgery, did this surgeon encourage you to ask questions?	
Q12	During your office visits before your surgery, did this surgeon show respect for what you had to say?	

Surgeon's Attentiveness on Day of Surgery

Q15	After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?	Response Options <ul style="list-style-type: none"> ▪ Yes ▪ No
Q17	Before you left the hospital or surgical facility, did this surgeon discuss the outcome of your surgery with you?	

Information To Help You Recover From Surgery

Q26	Did anyone in this surgeon's office explain what to expect during your recovery period?	Response Options <ul style="list-style-type: none"> ▪ Yes, definitely ▪ Yes, somewhat ▪ No
Q27	Did anyone in this surgeon's office warn you about any signs or symptoms that would need immediate medical attention during your recovery period?	
Q28	Did anyone in this surgeon's office give you easy to understand instructions about what to do during your recovery period?	
Q29	Did this surgeon make sure you were physically comfortable or had enough pain relief after you left the hospital or surgical facility where you had your surgery?	

How Well Surgeon Communicates With Patients After Surgery

Q31	After your surgery, did this surgeon listen carefully to you?	Response Options <ul style="list-style-type: none"> ▪ Yes, definitely ▪ Yes, somewhat ▪ No
Q32	After your surgery, did this surgeon spend enough time with you?	
Q33	After your surgery, did this surgeon encourage you to ask questions?	
Q34	After your surgery, did this surgeon show respect for what you had to say?	

Helpful, Courteous, and Respectful Staff at Surgeon's Office

Q36	During these visits, were clerks and receptionists at this surgeon's office as helpful as you thought they should be?	Response Options <ul style="list-style-type: none"> ▪ Yes, definitely ▪ Yes, somewhat ▪ No
Q37	During these visits, did clerks and receptionists at this surgeon's office treat you with courtesy and respect?	

Patients' Rating of the Surgeon

Q35	Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate all your care from this surgeon?	Response Options <ul style="list-style-type: none"> ▪ 0-10
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Appendix B: Applying the Proportional Scoring Method to the Surgical Care Survey Composites

Given a composite with four items, where each item has three response options, a provider's score for that composite is the proportion of responses (excluding missing data) in each response category. The following steps show how those proportions are calculated:

Step 1 – Calculate the proportion of cases in each response category for the first question:

P11 = Proportion of respondents who answered “yes, definitely”

P12 = Proportion of respondents who answered “yes, somewhat”

P13 = Proportion of respondents who answered “no”

Follow the same steps for the second question:

P21 = Proportion of respondents who answered “yes, definitely”

P22 = Proportion of respondents who answered “yes, somewhat”

P23 = Proportion of respondents who answered “no”

Repeat the same procedure for each of the questions in the composite.

Step 2 – Combine responses from the questions to form the composite

Calculate the average proportion responding to each category across the questions in the composite. For example, in the “How Well Surgeon Communicates With Patients Before Surgery” composite (four items), the calculations would be as follows:

PC1 = Composite proportion who said “yes, definitely” = $(P11 + P21 + P31 + P41) / 4$

PC2 = Composite proportion who said “yes, somewhat” = $(P12 + P22 + P32 + P42) / 4$

PC3 = Composite proportion who said “no” = $(P13 + P23 + P33 + P43) / 4$

To learn more about the scores you can use for reporting purposes, refer to *How To Report Results of the CAHPS Clinician & Group Survey*

(<https://www.cahps.ahrq.gov/Surveys-Guidance/CG/~media/Files/SurveysandGuidance/CGKit/HowtoReportResultsofCGCAHPS080610FINAL.pdf>).

PDF Help should go to: <https://www.cahps.ahrq.gov/PDF-Help.aspx>).

Surgical Care Survey Results from Field Test: June to Sept 2008

Guide for Interpreting Results

1) The column labeled 'Scale' indicates the response options that were provided for each item. '% Yes' indicates the proportion of patients answering affirmatively (that is, 'Yes' for a simple 'Yes/No' question or 'Definitely yes' or 'Somewhat yes' to an item using the 'Definitely yes--Definitely no' response scale).

2) The column labeled 'Min Score' indicates the lowest score for a surgeon on the item.

3) The column labeled 'Max Score' indicates the highest score for a surgeon on the item.

4) The column labeled 'All Surgeons' represents the average score provided by all patients who responded to this survey across all specialties.

5) The column labeled '95% CI' provides a 'Confidence Interval' - a range containing 95% of the average surgeons' scores across all specialties. Since the surgeons participating in this field test were NOT randomly selected, caution should be used when comparing your scores with those of others.

Item	Scale	Min Score	Max Score	All Surgeons N=96	95% CI
Was your surgery scheduled as soon as you needed?	% Yes	83.3	100	97.7	96.9 - 98.6
Did this surgeon or this surgeon's staff give you enough information on your surgery before it was done?	% Yes	83.3	100	97.6	96.8 - 98.4
Did this surgeon or this surgeon's staff give you easy to understand instructions about getting ready for your surgery?	% Yes	88.3	100	98.9	98.3 - 99.4
Before your surgery, how many office visits did you have with this surgeon?	0 - 8	0.43	3.81	2.05	1.9 - 2.2
During your office visits before your surgery, did this surgeon tell you there was more than one way to treat your condition?	% Yes	20	100	56.3	52.4 - 60.2
During your office visits before your surgery, did this surgeon ask which way to treat your condition you thought was best for you?	% Yes	50	100	92.1	89.8 - 94.3
During your office visits before your surgery, did this surgeon talk with you about the risks and benefits of your treatment choices?	% Yes	83.3	100	97.8	96.9 - 98.7
During your office visits before your surgery, did this surgeon listen carefully to you?	% Yes	66.7	100	98.5	97.4 - 99.5
During your office visits before your surgery, how often did this surgeon listen carefully to you?	% Usually or Always	50	100	95.7	93.7 - 97.7
During your office visits before your surgery, did this surgeon spend enough time with you?	% Yes	80	100	97.3	96.4 - 98.3
During your office visits before your surgery, did this surgeon encourage you to ask questions?	% Yes	66.7	100	94.7	92.9 - 96.5
During your office visits before your surgery, did this surgeon treat you with courtesy and respect?	% Yes	87.5	100	99.6	99.2 - 100
During your office visits before your surgery, how often did this surgeon treat you with courtesy and respect?	% Yes	66.7	100	97.9	96.8 - 99.1
During your office visits before your surgery, did this surgeon or this surgeon's staff use diagrams, models, videos, or other materials to help explain things to you?	% Yes	25	100	67.7	63.6 - 71.9
Did these diagrams, models, videos, or other material help you better understand your condition and its treatment?	% Yes	93.8	100	99.4	99.1 - 99.8
After you arrived at the hospital or surgical facility, did this surgeon visit you before your surgery?	% Yes	36	100	79.3	75.9 - 82.7
Did this visit make you feel more calm and relaxed?	% Yes	88.2	100	98.9	98.4 - 99.3
After you were admitted to the hospital or surgical facility, were there any long delays before your surgery began?	% Yes	50	100	85	82.8 - 87.3

Item	Scale	Min Score	Max Score	All Surgeons N=96	95% CI
Were you kept informed about how long you would have to wait for your surgery to begin?	% Yes	0	100	81.7	77 - 86.4
Were any family or friends in the building during your surgery?	% Yes	73.7	100	92.4	90.7 - 94.2
Did this surgeon or a member of the operating team discuss your surgery with your family or friends immediately after the surgery was over?	% Yes	66.7	100	95.8	94.3 - 97.3
Before you left the hospital or surgical facility, did this surgeon visit you and discuss the outcome of your surgery?	% Yes	48.1	100	84	81 - 87
How soon after your surgery did this surgeon discuss the outcome of the surgery with you?	% less than 1 day	16.7	76.2	53.1	49.7 - 56.4
Were you given something so you would not feel pain during your surgery?	% Yes	89.3	100	98.7	98.2 - 99.3
Who gave you something so you would not feel pain during your surgery?	% Anesthesiologist	60.7	100	88.7	86.6 - 90.7
Did this anesthesiologist encourage you to ask questions?	% Yes	40	100	85.6	83.2 - 88.1
Did you ask this anesthesiologist any questions?	% Yes	12.5	100	51.1	48 - 54.2
Did this anesthesiologist answer your questions clearly?	% Yes	60	100	98	96.6 - 99.3
After you arrived at the hospital or surgical facility, did this anesthesiologist visit you before your surgery?	% Yes	33.3	100	88.8	86.2 - 91.5
Did talking with this anesthesiologist during this visit make you feel more calm and relaxed?	% Yes	80	100	96.9	95.9 - 98
Using any number from 0 to 10, where 0 is the worst anesthesiologist possible and 10 is the best anesthesiologist possible, what number would you use to rate this anesthesiologist?	0 - 10	5.8	9.8	8.92	8.79 - 9.05
Did this surgeon or this surgeon's staff explain what to expect during your recovery period?	% Yes	50	100	94.5	92.8 - 96.2
Did this surgeon or this surgeon's staff warn you about any signs or symptoms that would require immediate medical attention during your recovery period?	% Yes	66.7	100	93.5	92 - 95.1
Did this surgeon or this surgeon's staff give you easy to understand instructions about what to do during your recovery period?	% Yes	80	100	96.6	95.6 - 97.7
Did this surgeon make sure you were physically comfortable or had enough pain relief after you left the facility where you had your surgery?	% Yes	80	100	96.4	95.5 - 97.3
After your surgery, did you talk with this surgeon by phone or visit this surgeon at his or her office?	% Yes	59.3	100	87.5	85.4 - 89.5
After your surgery, did this surgeon listen carefully to you?	% Yes	80	100	97.2	96.1 - 98.3
After your surgery, how often did this surgeon listen carefully to you?	% Usually or Always	50	100	93.8	91.6 - 95.9
After your surgery, did this surgeon spend enough time with you?	% Yes	75	100	94.3	93 - 95.6
After your surgery, did this surgeon encourage you to ask questions?	% Yes	71.4	100	93.6	92 - 95.2
After your surgery, did this surgeon treat you with courtesy and respect?	% Yes	66.7	100	98.8	97.9 - 99.8
After your surgery, how often did this surgeon treat you with courtesy and respect?	% Usually or Always	85.7	100	98.1	97.3 - 98.8

Item	Scale	Min Score	Max Score	All Surgeons N=96	95% CI
After your surgery, did you phone this surgeon's office with a medical question?	% Yes	8.7	54.5	34.5	31.1 - 37.9
After your surgery, when you phoned this surgeon's office, did you get an answer to your medical questions as soon as you needed?	% Yes	33.3	100	91.5	88.5 - 94.6
After your surgery, how many times did you visit this surgeon's office?	0 - 8	1	5.2	2.3	2.13 - 2.47
Staff at this surgeon's office includes receptionists, clerks, nurses, and other people working in the office. Were the staff at this surgeon's office as helpful as you thought they should be?	% Yes	62.5	100	95.7	94.2 - 97.2
Did the staff at this surgeon's office treat you with courtesy and respect?	% Yes	80	100	98	97 - 99
How often did the staff at this surgeon's office treat you with courtesy and respect?	% Usually or Always	0	100	95.6	92.6 - 98.6
Were you aware of any medical mistakes by this surgeon in your treatment?	% No	80	100	94.5	93.3 - 95.7
Did these mistakes cause any significant problems for your treatment or condition?	% Yes	0	100	71.1	61.8 - 80.4
Did this surgeon explain how the mistake happened?	% Yes	0	100	55.3	43.9 - 66.7
Do you feel this surgeon really cared about you as a person?	% Yes	80	100	95.7	94.4 - 97
Did this surgeon check to be sure you understood everything?	% Yes	80	100	95.4	94.3 - 96.6
Using any number from 0 to 10, where 0 is the worst surgeon possible and 10 is the best surgeon possible, what number would you use to rate this surgeon?	0 - 10	6.83	10	9.3	9.18 - 9.42
Were the results of this surgery as good or better than you expected?	% Yes	50	100	89.9	87.8 - 92
In general, how would you rate your overall health?	% Very good or excellent	25	80	54.7	51.8 - 57.6
What is your age?	Mean	42.2	75.1	59.6	57.8 - 61.5
Are you male or female?	% Male	0	100	49.7	44.6 - 54.8
Not counting this surgery, about how many other surgeries have you had?	Mean	1.6	5.88	3.83	3.63 - 4.03
What is the highest grade or level of school that you have completed?	% 4 year college graduate or higher	0	71.4	33.7	30.1 - 37.3
Are you of Hispanic or Latino origin or descent?	% Yes	0	31.3	3.15	1.9 - 4.4
What is your race? Please mark one or more.	% White	10.5	100	84.4	80.7 - 88.2

Attachment J_CPT codes for Surgical CAHPS 90 day globals_Updated_11-4-2011

CPT	Desc	CODE	SPECIALTY	2006 FREQ
33533	Coronary artery bypass,	78	Cardiac Surgery	60,391
33405	Replacement, aortic valv	78	Cardiac Surgery	19,246
35301	Thromboendarterectomy	78	Cardiac Surgery	10,865
33208	Insertion or replacement	78	Cardiac Surgery	6,156
33430	Replacement, mitral valv	78	Cardiac Surgery	6,148
33534	Coronary artery bypass,	78	Cardiac Surgery	5,281
33510	Coronary artery bypass,	78	Cardiac Surgery	4,383
32480	Removal of lung, other t	78	Cardiac Surgery	4,380
33511	Coronary artery bypass,	78	Cardiac Surgery	4,327
33426	Valvuloplasty, mitral valv	78	Cardiac Surgery	4,179
33512	Coronary artery bypass,	78	Cardiac Surgery	3,838
35820	Exploration for postoper	78	Cardiac Surgery	3,258
33254	Operative tissue ablation	78	Cardiac Surgery	2,580
33233	Removal of permanent p	78	Cardiac Surgery	2,529
32500	Removal of lung, other t	78	Cardiac Surgery	2,522
33025	Creation of pericardial w	78	Cardiac Surgery	2,422
33256	Operative tissue ablation	78	Cardiac Surgery	2,202
32650	Thoracoscopy, surgical;	78	Cardiac Surgery	2,099
33860	Ascending aorta graft, w	78	Cardiac Surgery	1,988
33213	Insertion or replacement	78	Cardiac Surgery	1,951
33427	Valvuloplasty, mitral valv	78	Cardiac Surgery	1,852
35656	Bypass graft, with other	78	Cardiac Surgery	1,825
33249	Insertion or repositioning	78	Cardiac Surgery	1,806
33513	Coronary artery bypass,	78	Cardiac Surgery	1,797
32657	Thoracoscopy, surgical;	78	Cardiac Surgery	1,625
33202	Insertion of epicardial el	78	Cardiac Surgery	1,570
33464	Valvuloplasty, tricuspid v	78	Cardiac Surgery	1,525
33641	Repair atrial septal defe	78	Cardiac Surgery	1,416
34802	Endovascular repair of il	78	Cardiac Surgery	1,282
33207	Insertion or replacement	78	Cardiac Surgery	1,259
36830	Creation of arteriovenou	78	Cardiac Surgery	1,230
33535	Coronary artery bypass,	78	Cardiac Surgery	1,207
32220	Decortication, pulmonar	78	Cardiac Surgery	1,111
36821	Arteriovenous anastomoc	78	Cardiac Surgery	1,080
33863	Ascending aorta graft, w	78	Cardiac Surgery	1,039
21627	Sternal debridement	78	Cardiac Surgery	1,023
32100	Thoracotomy, major; wit	78	Cardiac Surgery	988
21750	Closure of median stern	78	Cardiac Surgery	957
33241	Subcutaneous removal o	78	Cardiac Surgery	925
34825	Placement of proximal c	78	Cardiac Surgery	919
33255	Operative tissue ablation	78	Cardiac Surgery	881
39010	Mediastinotomy with exp	78	Cardiac Surgery	853
35081	Direct repair of aneurysr	78	Cardiac Surgery	848
37620	Interruption, partial or c	78	Cardiac Surgery	800
33411	Replacement, aortic valv	78	Cardiac Surgery	684
33870	Transverse arch graft, w	78	Cardiac Surgery	651
35371	Thromboendarterectomy	78	Cardiac Surgery	646
32095	Thoracotomy, limited, fo	78	Cardiac Surgery	633
20680	Removal of implant; dee	78	Cardiac Surgery	626
33212	Insertion or replacement	78	Cardiac Surgery	602
33240	Insertion of single or dua	78	Cardiac Surgery	600

Attachment J_CPT codes for Surgical CAHPS 90 day globals_Updated_11-4-2011

35646	Bypass graft, with other	78	Cardiac Surgery	583
33463	Valvuloplasty, tricuspid v	78	Cardiac Surgery	571
35226	Repair blood vessel, dire	78	Cardiac Surgery	557
33410	Replacement, aortic valv	78	Cardiac Surgery	534
34201	Embolectomy or thromb	78	Cardiac Surgery	534
33536	Coronary artery bypass,	78	Cardiac Surgery	526
36831	Thrombectomy, open, a	78	Cardiac Surgery	526
32124	Thoracotomy, major; wit	78	Cardiac Surgery	517
35141	Direct repair of aneurysr	78	Cardiac Surgery	511
35661	Bypass graft, with other	78	Cardiac Surgery	487
35556	Bypass graft, with vein; t	78	Cardiac Surgery	479
36825	Creation of arteriovenou	78	Cardiac Surgery	463
15734	Muscle, myocutaneous,	78	Cardiac Surgery	460
33120	Excision of intracardiac	78	Cardiac Surgery	430
33514	Coronary artery bypass,	78	Cardiac Surgery	430
36833	Revision, open, arteriove	78	Cardiac Surgery	424
33542	Myocardial resection (eg	78	Cardiac Surgery	414
33251	Operative ablation of su	78	Cardiac Surgery	412
32482	Removal of lung, other t	78	Cardiac Surgery	400
36832	Revision, open, arteriove	78	Cardiac Surgery	398
35372	Thromboendarterectomy	78	Cardiac Surgery	397
33425	Valvuloplasty, mitral valv	78	Cardiac Surgery	395
35903	Excision of infected graf	78	Cardiac Surgery	392
35102	Direct repair of aneurysr	78	Cardiac Surgery	378
35566	Bypass graft, with vein; t	78	Cardiac Surgery	377
33222	Revision or relocation of	78	Cardiac Surgery	370
36819	Arteriovenous anastomc	78	Cardiac Surgery	370
33244	Removal of single or du	78	Cardiac Surgery	359
37765	Stab phlebectomy of var	78	Cardiac Surgery	356
32652	Thoracoscopy, surgical;	78	Cardiac Surgery	353
33406	Replacement, aortic valv	78	Cardiac Surgery	349
32440	Removal of lung, total p	78	Cardiac Surgery	333
33416	Ventriculomyotomy (-my	78	Cardiac Surgery	330
33265	Endoscopy, surgical; op	78	Cardiac Surgery	315
33266	Endoscopy, surgical; op	78	Cardiac Surgery	315
33235	Removal of transvenous	78	Cardiac Surgery	314
32225	Decortication, pulmonar	78	Cardiac Surgery	313
33971	Removal of intra-aortic b	78	Cardiac Surgery	312
33216	Insertion of a transveno	78	Cardiac Surgery	311
32120	Thoracotomy, major; for	78	Cardiac Surgery	309
33223	Revision of skin pocket	78	Cardiac Surgery	309
35860	Exploration for postoper	78	Cardiac Surgery	308
32484	Removal of lung, other t	78	Cardiac Surgery	303
33945	Heart transplant, with or	78	Cardiac Surgery	297
27590	Amputation, thigh, throu	78	Cardiac Surgery	289
32663	Thoracoscopy, surgical;	78	Cardiac Surgery	288
32320	Decortication and pariet	78	Cardiac Surgery	283
33234	Removal of transvenous	78	Cardiac Surgery	280
32651	Thoracoscopy, surgical;	78	Cardiac Surgery	277
33215	Repositioning of previou	78	Cardiac Surgery	274
35875	Thrombectomy of arteria	78	Cardiac Surgery	271
33877	Repair of thoracoabdom	78	Cardiac Surgery	248

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33315	Cardiotomy, exploratory	78	Cardiac Surgery	246
27880	Amputation, leg, through	78	Cardiac Surgery	235
33875	Descending thoracic aor	78	Cardiac Surgery	228
33465	Replacement, tricuspid v	78	Cardiac Surgery	226
47562	Laparoscopy, surgical; c	78	Cardiac Surgery	226
33400	Valvuloplasty, aortic valv	78	Cardiac Surgery	216
32141	Thoracotomy, major; wit	78	Cardiac Surgery	213
35082	Direct repair of aneurysr	78	Cardiac Surgery	213
21501	Incision and drainage, d	78	Cardiac Surgery	212
33217	Insertion of a transveno	78	Cardiac Surgery	212
35666	Bypass graft, with other	78	Cardiac Surgery	209
39000	Mediastinotomy with exp	78	Cardiac Surgery	203
37607	Ligation or banding of ar	78	Cardiac Surgery	198
33030	Pericardiectomy, subtot	78	Cardiac Surgery	196
49560	Repair initial incisional o	78	Cardiac Surgery	196
33881	Endovascular repair of c	78	Cardiac Surgery	194
33861	Ascending aorta graft, w	78	Cardiac Surgery	193
34803	Endovascular repair of il	78	Cardiac Surgery	184
34101	Embolectomy or thromb	78	Cardiac Surgery	181
36818	Arteriovenous anastomc	78	Cardiac Surgery	171
43117	Partial esophagectomy,	78	Cardiac Surgery	165
35800	Exploration for postoper	78	Cardiac Surgery	161
35571	Bypass graft, with vein;	78	Cardiac Surgery	159
32504	Resection of apical lung	78	Cardiac Surgery	158
32655	Thoracoscopy, surgical;	78	Cardiac Surgery	156
35211	Repair blood vessel, dire	78	Cardiac Surgery	156
32110	Thoracotomy, major; wit	78	Cardiac Surgery	155
33243	Removal of single or du	78	Cardiac Surgery	155
33548	Surgical ventricular rest	78	Cardiac Surgery	154
34203	Embolectomy or thromb	78	Cardiac Surgery	152
35585	In-situ vein bypass; fem	78	Cardiac Surgery	150
39220	Excision of mediastinal t	78	Cardiac Surgery	147
13160	Secondary closure of su	78	Cardiac Surgery	144
33305	Repair of cardiac wound	78	Cardiac Surgery	143
35876	Thrombectomy of arteria	78	Cardiac Surgery	142
35355	Thromboendarterectomy	78	Cardiac Surgery	141
33031	Pericardiectomy, subtot	78	Cardiac Surgery	138
37215	Transcatheter placemer	78	Cardiac Surgery	138
35286	Repair blood vessel with	78	Cardiac Surgery	132
35665	Bypass graft, with other	78	Cardiac Surgery	132
33417	Aortoplasty (gusset) for	78	Cardiac Surgery	131
36820	Arteriovenous anastomc	78	Cardiac Surgery	131
32503	Resection of apical lung	78	Cardiac Surgery	131
35091	Direct repair of aneurysr	78	Cardiac Surgery	130
22558	Arthrodesis, anterior inte	78	Cardiac Surgery	129
37766	Stab phlebectomy of var	78	Cardiac Surgery	129
32653	Thoracoscopy, surgical;	78	Cardiac Surgery	124
27301	Incision and drainage, d	78	Cardiac Surgery	122
33322	Suture repair of aorta or	78	Cardiac Surgery	121
32659	Thoracoscopy, surgical;	78	Cardiac Surgery	120
21825	Open treatment of stern	78	Cardiac Surgery	117
60521	Thymectomy, partial or t	78	Cardiac Surgery	117

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33300	Repair of cardiac wound	78	Cardiac Surgery	115
35606	Bypass graft, with other	78	Cardiac Surgery	115
21620	Ostectomy of sternum, g	78	Cardiac Surgery	114
35241	Repair blood vessel with	78	Cardiac Surgery	113
33020	Pericardiotomy for remo	78	Cardiac Surgery	111
34804	Endovascular repair of il	78	Cardiac Surgery	111
19260	Excision of chest wall tu	78	Cardiac Surgery	110
32656	Thoracoscopy, surgical;	78	Cardiac Surgery	110
33880	Endovascular repair of c	78	Cardiac Surgery	108
35631	Bypass graft, with other	78	Cardiac Surgery	105
35721	Exploration (not followe	78	Cardiac Surgery	105
35761	Exploration (not followe	78	Cardiac Surgery	103
35206	Repair blood vessel, dire	78	Cardiac Surgery	102
35583	In-situ vein bypass; fem	78	Cardiac Surgery	102
33681	Closure of single ventric	78	Cardiac Surgery	100
35011	Direct repair of aneurysr	78	Cardiac Surgery	96
43107	Total or near total esoph	78	Cardiac Surgery	96
49505	Repair initial inguinal he	78	Cardiac Surgery	96
32160	Thoracotomy, major; wit	78	Cardiac Surgery	94
47600	Cholecystectomy;	78	Cardiac Surgery	92
35621	Bypass graft, with other	78	Cardiac Surgery	91
33545	Repair of postinfarction	78	Cardiac Surgery	90
35190	Repair, acquired or trau	78	Cardiac Surgery	90
35351	Thromboendarterectomy	78	Cardiac Surgery	89
37785	Ligation, division, and/or	78	Cardiac Surgery	89
43324	Esophagogastric fundop	78	Cardiac Surgery	88
33516	Coronary artery bypass,	78	Cardiac Surgery	87
35626	Bypass graft, with other	78	Cardiac Surgery	87
28820	Amputation, toe; metata	78	Cardiac Surgery	85
32215	Pleural scarification for r	78	Cardiac Surgery	85
36870	Thrombectomy, percuta	78	Cardiac Surgery	84
35840	Exploration for postoper	78	Cardiac Surgery	82
35637	Bypass graft, with other	78	Cardiac Surgery	81
35638	Bypass graft, with other	78	Cardiac Surgery	81
35151	Direct repair of aneurysr	78	Cardiac Surgery	80
35654	Bypass graft, with other	78	Cardiac Surgery	79
38530	Biopsy or excision of lym	78	Cardiac Surgery	77
27602	Decompression fasciotom	78	Cardiac Surgery	76
44140	Colectomy, partial; with	78	Cardiac Surgery	76
35216	Repair blood vessel, dire	78	Cardiac Surgery	75
32851	Lung transplant, single;	78	Cardiac Surgery	74
32402	Biopsy, pleura; open	78	Cardiac Surgery	73
35558	Bypass graft, with vein;	78	Cardiac Surgery	72
33140	Transmyocardial laser re	78	Cardiac Surgery	71
38542	Dissection, deep jugular	78	Cardiac Surgery	71
33214	Upgrade of implanted pa	78	Cardiac Surgery	70
35131	Direct repair of aneurysr	78	Cardiac Surgery	70
49000	Exploratory laparotomy,	78	Cardiac Surgery	70
21600	Excision of rib, partial	78	Cardiac Surgery	69
35001	Direct repair of aneurysr	78	Cardiac Surgery	69
32310	Pleurectomy, parietal (se	78	Cardiac Surgery	68
33415	Resection or incision of	78	Cardiac Surgery	68

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33206	Insertion or replacement	78	Cardiac Surgery	67
33335	Insertion of graft, aorta c	78	Cardiac Surgery	67
28810	Amputation, metatarsal,	78	Cardiac Surgery	66
33282	Implantation of patient-a	78	Cardiac Surgery	66
33320	Suture repair of aorta or	78	Cardiac Surgery	66
33015	Tube pericardiostomy	78	Cardiac Surgery	65
33980	Removal of ventricular a	78	Cardiac Surgery	65
43415	Suture of esophageal we	78	Cardiac Surgery	65
33284	Removal of an implanta	78	Cardiac Surgery	64
36838	Distal revascularization	78	Cardiac Surgery	64
33883	Placement of proximal e	78	Cardiac Surgery	63
44005	Enterolysis (freeing of in	78	Cardiac Surgery	63
35271	Repair blood vessel with	78	Cardiac Surgery	61
32036	Thoracostomy; with ope	78	Cardiac Surgery	60
33774	Repair of transposition c	78	Cardiac Surgery	59
32150	Thoracotomy, major; wit	78	Cardiac Surgery	58
35647	Bypass graft, with other	78	Cardiac Surgery	58
35879	Revision, lower extremity	78	Cardiac Surgery	58
19125	Excision of breast lesior	78	Cardiac Surgery	55
34900	Endovascular graft place	78	Cardiac Surgery	54
33203	Insertion of epicardial el	78	Cardiac Surgery	53
35221	Repair blood vessel, dire	78	Cardiac Surgery	53
21630	Radical resection of ster	78	Cardiac Surgery	52
36822	Insertion of cannula(s) f	78	Cardiac Surgery	52
21556	Excision tumor, soft tiss	78	Cardiac Surgery	51
32815	Open closure of major b	78	Cardiac Surgery	51
32853	Lung transplant, double	78	Cardiac Surgery	50
15430	Acellular xenograft impla	78	Cardiac Surgery	49
33414	Repair of left ventricular	78	Cardiac Surgery	48
35142	Direct repair of aneurysm	78	Cardiac Surgery	48
35256	Repair blood vessel with	78	Cardiac Surgery	48
43280	Laparoscopy, surgical, e	78	Cardiac Surgery	48
60522	Thymectomy, partial or t	78	Cardiac Surgery	48
35302	Thromboendarterectomy	78	Cardiac Surgery	48
35303	Thromboendarterectomy	78	Cardiac Surgery	48
35304	Thromboendarterectomy	78	Cardiac Surgery	48
35305	Thromboendarterectomy	78	Cardiac Surgery	48
61793	Stereotactic radiosurger	78	Cardiac Surgery	47
32854	Lung transplant, double	78	Cardiac Surgery	46
33050	Excision of pericardial c	78	Cardiac Surgery	46
33502	Repair of anomalous co	78	Cardiac Surgery	46
38525	Biopsy or excision of lym	78	Cardiac Surgery	46
19272	Excision of chest wall tu	78	Cardiac Surgery	45
33238	Removal of permanent t	78	Cardiac Surgery	45
33910	Pulmonary artery embol	78	Cardiac Surgery	45
35331	Thromboendarterectomy	78	Cardiac Surgery	45
32488	Removal of lung, other t	78	Cardiac Surgery	44
32662	Thoracoscopy, surgical;	78	Cardiac Surgery	44
34111	Embolectomy or thromb	78	Cardiac Surgery	44
35201	Repair blood vessel, dire	78	Cardiac Surgery	44
37618	Ligation, major artery (e	78	Cardiac Surgery	44
27603	Incision and drainage, le	78	Cardiac Surgery	43

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37722	Ligation, division, and st	78	Cardiac Surgery	43
43130	Diverticulectomy of hypc	78	Cardiac Surgery	43
49585	Repair umbilical hernia,	78	Cardiac Surgery	43
33475	Replacement, pulmonar	78	Cardiac Surgery	42
31613	Tracheostoma revision;	78	Cardiac Surgery	41
33496	Repair of non-structural	78	Cardiac Surgery	41
36834	Plastic repair of arteriove	78	Cardiac Surgery	41
49010	Exploration, retroperiton	78	Cardiac Surgery	41
32035	Thoracostomy; with rib r	78	Cardiac Surgery	40
37700	Ligation and division of l	78	Cardiac Surgery	40
44120	Enterectomy, resection o	78	Cardiac Surgery	40
35103	Direct repair of aneurysm	78	Cardiac Surgery	39
43326	Esophagogastric fundop	78	Cardiac Surgery	39
49002	Reopening of recent lap	78	Cardiac Surgery	39
49421	Insertion of intraperitone	78	Cardiac Surgery	39
35236	Repair blood vessel with	78	Cardiac Surgery	38
39520	Repair, diaphragmatic h	78	Cardiac Surgery	38
22556	Arthrodesis, anterior inte	78	Cardiac Surgery	37
33460	Valvectomy, tricuspid va	78	Cardiac Surgery	36
33977	Removal of ventricular a	78	Cardiac Surgery	36
43112	Total or near total esoph	78	Cardiac Surgery	36
61885	Insertion or replacement	78	Cardiac Surgery	36
33310	Cardiotomy, exploratory	78	Cardiac Surgery	35
37760	Ligation of perforator ve	78	Cardiac Surgery	35
21555	Excision tumor, soft tiss	78	Cardiac Surgery	34
21632	Radical resection of ster	78	Cardiac Surgery	34
32140	Thoracotomy, major; wit	78	Cardiac Surgery	34
32486	Removal of lung, other t	78	Cardiac Surgery	34
47100	Biopsy of liver, wedge	78	Cardiac Surgery	34
35266	Repair blood vessel with	78	Cardiac Surgery	33
37500	Vascular endoscopy, su	78	Cardiac Surgery	33
39200	Excision of mediastinal c	78	Cardiac Surgery	33
43830	Gastrostomy, open; with	78	Cardiac Surgery	33
35671	Bypass graft, with other	78	Cardiac Surgery	32
38100	Splenectomy; total (sepa	78	Cardiac Surgery	32
15570	Formation of direct or tu	78	Cardiac Surgery	31
32540	Extrapleural enucleation	78	Cardiac Surgery	31
32900	Resection of ribs, extrap	78	Cardiac Surgery	31
33218	Repair of single transver	78	Cardiac Surgery	31
33720	Repair sinus of Valsalva	78	Cardiac Surgery	31
38520	Biopsy or excision of lym	78	Cardiac Surgery	31
43135	Diverticulectomy of hypc	78	Cardiac Surgery	31
43331	Esophagomyotomy (Hel	78	Cardiac Surgery	31
33926	Repair of pulmonary arte	78	Cardiac Surgery	30
35881	Revision, lower extremity	78	Cardiac Surgery	30
44300	Placement, enterostomy	78	Cardiac Surgery	30
19120	Excision of cyst, fibroad	78	Cardiac Surgery	29
19271	Excision of chest wall tu	78	Cardiac Surgery	29
35363	Thromboendarterectomy	78	Cardiac Surgery	29
44143	Colectomy, partial; with	78	Cardiac Surgery	29
49561	Repair initial incisional o	78	Cardiac Surgery	29
60220	Total thyroid lobectomy,	78	Cardiac Surgery	29

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15738	Muscle, myocutaneous,	78	Cardiac Surgery	28
33500	Repair of coronary arter	78	Cardiac Surgery	28
35021	Direct repair of aneurysr	78	Cardiac Surgery	28
38381	Suture and/or ligation of	78	Cardiac Surgery	28
63085	Vertebral corpectomy (v	78	Cardiac Surgery	28
33647	Repair of atrial septal de	78	Cardiac Surgery	27
35341	Thromboendarterectomy	78	Cardiac Surgery	27
37616	Ligation, major artery (e	78	Cardiac Surgery	27
39502	Repair, paraesophageal	78	Cardiac Surgery	27
43122	Partial esophagectomy,	78	Cardiac Surgery	27
31610	Tracheostomy, fenestra	78	Cardiac Surgery	26
32654	Thoracoscopy, surgical;	78	Cardiac Surgery	26
34800	Endovascular repair of il	78	Cardiac Surgery	26
35741	Exploration (not followe	78	Cardiac Surgery	26
49565	Repair recurrent incisor	78	Cardiac Surgery	26
60271	Thyroidectomy, includin	78	Cardiac Surgery	26
60500	Parathyroidectomy or ex	78	Cardiac Surgery	26
64573	Incision for implantation	78	Cardiac Surgery	26
32200	Pneumonostomy; with o	78	Cardiac Surgery	25
33404	Construction of apical-a	78	Cardiac Surgery	25
35321	Thromboendarterectomy	78	Cardiac Surgery	25
49904	Omental flap, extra-abdo	78	Cardiac Surgery	25
64818	Sympathectomy, lumbar	78	Cardiac Surgery	25
33236	Removal of permanent e	78	Cardiac Surgery	24
34421	Thrombectomy, direct o	78	Cardiac Surgery	24
35525	Bypass graft, with vein;	78	Cardiac Surgery	24
60270	Thyroidectomy, includin	78	Cardiac Surgery	24
62361	Implantation or replacen	78	Cardiac Surgery	24
33130	Resection of external ca	78	Cardiac Surgery	23
33420	Valvotomy, mitral valve;	78	Cardiac Surgery	23
33422	Valvotomy, mitral valve;	78	Cardiac Surgery	23
33974	Removal of intra-aortic b	78	Cardiac Surgery	23
34502	Reconstruction of vena c	78	Cardiac Surgery	23
35701	Exploration (not followe	78	Cardiac Surgery	23
14000	Adjacent tissue transfer	78	Cardiac Surgery	22
19303	Mastectomy, simple, con	78	Cardiac Surgery	22
27447	Arthroplasty, knee, cond	78	Cardiac Surgery	22
33220	Repair of two transveno	78	Cardiac Surgery	22
33412	Replacement, aortic valv	78	Cardiac Surgery	22
34501	Valvuloplasty, femoral v	78	Cardiac Surgery	22
35531	Bypass graft, with vein;	78	Cardiac Surgery	22
47563	Laparoscopy, surgical; c	78	Cardiac Surgery	22
49570	Repair epigastric hernia	78	Cardiac Surgery	22
33261	Operative ablation of ve	78	Cardiac Surgery	21
35092	Direct repair of aneurysr	78	Cardiac Surgery	21
35587	In-situ vein bypass; popl	78	Cardiac Surgery	21
39560	Resection, diaphragm; v	78	Cardiac Surgery	21
60200	Excision of cyst or aden	78	Cardiac Surgery	21
60520	Thymectomy, partial or t	78	Cardiac Surgery	21
17108	Destruction of cutaneous	78	Cardiac Surgery	20
25028	Incision and drainage, fo	78	Cardiac Surgery	20
26990	Incision and drainage, p	78	Cardiac Surgery	20

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28805	Amputation, foot; transm	78	Cardiac Surgery	20
33237	Removal of permanent e	78	Cardiac Surgery	20
33645	Direct or patch closure,	78	Cardiac Surgery	20
35506	Bypass graft, with vein;	78	Cardiac Surgery	20
35565	Bypass graft, with vein;	78	Cardiac Surgery	20
39501	Repair, laceration of dia	78	Cardiac Surgery	20
39541	Repair, diaphragmatic h	78	Cardiac Surgery	20
43030	Cricopharyngeal myoton	78	Cardiac Surgery	20
22612	Arthrodesis, posterior or	78	Cardiac Surgery	19
28825	Amputation, toe; interph	78	Cardiac Surgery	19
32491	Removal of lung, other t	78	Cardiac Surgery	19
32940	Pneumonolysis, extrape	78	Cardiac Surgery	19
35501	Bypass graft, with vein;	78	Cardiac Surgery	19
35560	Bypass graft, with vein;	78	Cardiac Surgery	19
36823	Insertion of arterial and	78	Cardiac Surgery	19
33507	Repair of anomalous (eg	78	Cardiac Surgery	19
35883	Revision, femoral anaste	78	Cardiac Surgery	19
35884	Revision, femoral anaste	78	Cardiac Surgery	19
35539	Bypass graft, with vein;	78	Cardiac Surgery	19
35540	Bypass graft, with vein;	78	Cardiac Surgery	19
27596	Amputation, thigh, throu	78	Cardiac Surgery	18
33250	Operative ablation of su	78	Cardiac Surgery	18
35261	Repair blood vessel with	78	Cardiac Surgery	18
35601	Bypass graft, with other	78	Cardiac Surgery	18
43310	Esophagoplasty (plastic	78	Cardiac Surgery	18
44160	Colectomy, partial, with	78	Cardiac Surgery	18
60240	Thyroidectomy, total or	78	Cardiac Surgery	18
63077	Discectomy, anterior, wi	78	Cardiac Surgery	18
63087	Vertebral corpectomy (v	78	Cardiac Surgery	18
33675	Closure of multiple ventr	78	Cardiac Surgery	17
19307	Mastectomy, modified ra	78	Cardiac Surgery	17
33660	Repair of incomplete or	78	Cardiac Surgery	17
33853	Repair of hypoplastic or	78	Cardiac Surgery	17
35013	Direct repair of aneurysm	78	Cardiac Surgery	17
35361	Thromboendarterectomy	78	Cardiac Surgery	17
39561	Resection, diaphragm; v	78	Cardiac Surgery	17
43840	Gastrorrhaphy, suture or	78	Cardiac Surgery	17
44950	Appendectomy;	78	Cardiac Surgery	17
49587	Repair umbilical hernia,	78	Cardiac Surgery	17
33478	Outflow tract augmentat	78	Cardiac Surgery	16
35663	Bypass graft, with other	78	Cardiac Surgery	16
35907	Excision of infected graf	78	Cardiac Surgery	16
43520	Pyloromyotomy, cutting	78	Cardiac Surgery	16
44970	Laparoscopy, surgical, a	78	Cardiac Surgery	16
49520	Repair recurrent inguina	78	Cardiac Surgery	16
50230	Nephrectomy, including	78	Cardiac Surgery	16
63090	Vertebral corpectomy (v	78	Cardiac Surgery	16
21557	Radical resection of tum	78	Cardiac Surgery	15
27884	Amputation, leg, through	78	Cardiac Surgery	15
32905	Thoracoplasty, Schede f	78	Cardiac Surgery	15
34490	Thrombectomy, direct or	78	Cardiac Surgery	15
38740	Axillary lymphadenector	78	Cardiac Surgery	15

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43621	Gastrectomy, total; with	78	Cardiac Surgery	15
49507	Repair initial inguinal he	78	Cardiac Surgery	15
19301	Mastectomy, partial (eg,	78	Cardiac Surgery	14
21615	Excision first and/or cer	78	Cardiac Surgery	14
21800	Closed treatment of rib f	78	Cardiac Surgery	14
22554	Arthrodesis, anterior inte	78	Cardiac Surgery	14
32852	Lung transplant, single;	78	Cardiac Surgery	14
35522	Bypass graft, with vein;	78	Cardiac Surgery	14
15845	Graft for facial nerve par	78	Cardiac Surgery	13
20926	Tissue grafts, other (eg,	78	Cardiac Surgery	13
21510	Incision, deep, with open	78	Cardiac Surgery	13
33501	Repair of coronary arter	78	Cardiac Surgery	13
33606	Anastomosis of pulmona	78	Cardiac Surgery	13
33820	Repair of patent ductus	78	Cardiac Surgery	13
33917	Repair of pulmonary arte	78	Cardiac Surgery	13
33978	Removal of ventricular a	78	Cardiac Surgery	13
34001	Embolectomy or thromb	78	Cardiac Surgery	13
35121	Direct repair of aneurysr	78	Cardiac Surgery	13
35650	Bypass graft, with other	78	Cardiac Surgery	13
60210	Partial thyroid lobectomy	78	Cardiac Surgery	13
21740	Reconstructive repair of	78	Cardiac Surgery	12
27130	Arthroplasty, acetabular	78	Cardiac Surgery	12
27598	Disarticulation at knee	78	Cardiac Surgery	12
32658	Thoracoscopy, surgical;	78	Cardiac Surgery	12
32800	Repair lung hernia throu	78	Cardiac Surgery	12
34151	Embolectomy or thromb	78	Cardiac Surgery	12
35132	Direct repair of aneurysr	78	Cardiac Surgery	12
35651	Bypass graft, with other	78	Cardiac Surgery	12
39545	Imbrication of diaphragn	78	Cardiac Surgery	12
43121	Partial esophagectomy,	78	Cardiac Surgery	12
43832	Gastrostomy, open; with	78	Cardiac Surgery	12
49060	Drainage of retroperiton	78	Cardiac Surgery	12
63075	Discectomy, anterior, wi	78	Cardiac Surgery	12
15731	Forehead flap with prese	78	Cardiac Surgery	12
15100	Split-thickness autograft	78	Cardiac Surgery	11
23120	Claviclectomy; partial	78	Cardiac Surgery	11
27600	Decompression fascioto	78	Cardiac Surgery	11
29826	Arthroscopy, shoulder, s	78	Cardiac Surgery	11
32445	Removal of lung, total p	78	Cardiac Surgery	11
32820	Major reconstruction, ch	78	Cardiac Surgery	11
33330	Insertion of graft, aorta c	78	Cardiac Surgery	11
33504	Repair of anomalous co	78	Cardiac Surgery	11
34051	Embolectomy or thromb	78	Cardiac Surgery	11
35045	Direct repair of aneurysr	78	Cardiac Surgery	11
35184	Repair, congenital arteri	78	Cardiac Surgery	11
35189	Repair, acquired or trau	78	Cardiac Surgery	11
35311	Thromboendarterectomy	78	Cardiac Surgery	11
37617	Ligation, major artery (e	78	Cardiac Surgery	11
38308	Lymphangiomyotomy or othe	78	Cardiac Surgery	11
43101	Excision of lesion, esopl	78	Cardiac Surgery	11
43124	Total or partial esophag	78	Cardiac Surgery	11
44141	Colectomy, partial; with	78	Cardiac Surgery	11

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44144	Colectomy, partial; with	78	Cardiac Surgery	11
44204	Laparoscopy, surgical; c	78	Cardiac Surgery	11
49020	Drainage of peritoneal a	78	Cardiac Surgery	11
63047	Laminectomy, facetecto	78	Cardiac Surgery	11
24495	Decompression fascioto	78	Cardiac Surgery	10
27882	Amputation, leg, through	78	Cardiac Surgery	10
33602	Closure of semilunar val	78	Cardiac Surgery	10
33615	Repair of complex cardi	78	Cardiac Surgery	10
33814	Obliteration of aortopulm	78	Cardiac Surgery	10
33916	Pulmonary endarterecto	78	Cardiac Surgery	10
35509	Bypass graft, with vein; c	78	Cardiac Surgery	10
35623	Bypass graft, with other	78	Cardiac Surgery	10
44145	Colectomy, partial; with	78	Cardiac Surgery	10
49419	Insertion of intraperitone	78	Cardiac Surgery	10
33724	Repair of isolated partia	78	Cardiac Surgery	10
33726	Repair of pulmonary ver	78	Cardiac Surgery	10
25111	Excision of ganglion, wri	78	Cardiac Surgery	9
27125	Hemiarthroplasty, hip, p	78	Cardiac Surgery	9
27886	Amputation, leg, through	78	Cardiac Surgery	9
31770	Bronchoplasty; graft rep	78	Cardiac Surgery	9
32151	Thoracotomy, major; wit	78	Cardiac Surgery	9
33702	Repair sinus of Valsalva	78	Cardiac Surgery	9
34805	Endovascular repair of il	78	Cardiac Surgery	9
34831	Open repair of infrarena	78	Cardiac Surgery	9
35612	Bypass graft, with other	78	Cardiac Surgery	9
37718	Ligation, division, and st	78	Cardiac Surgery	9
43330	Esophagomyotomy (Hell	78	Cardiac Surgery	9
43410	Suture of esophageal we	78	Cardiac Surgery	9
44050	Reduction of volvulus, ir	78	Cardiac Surgery	9
44602	Suture of small intestine	78	Cardiac Surgery	9
49900	Suture, secondary, of ab	78	Cardiac Surgery	9
60505	Parathyroidectomy or ex	78	Cardiac Surgery	9
63301	Vertebral corpectomy (v	78	Cardiac Surgery	9
64721	Neuroplasty and/or trans	78	Cardiac Surgery	9
44320	Colostomy or skin level	78	Cardiac Surgery	9
14001	Adjacent tissue transfer	78	Cardiac Surgery	8
21930	Excision, tumor, soft tiss	78	Cardiac Surgery	8
33608	Repair of complex cardi	78	Cardiac Surgery	8
38760	Inguinofemoral lymphad	78	Cardiac Surgery	8
39540	Repair, diaphragmatic h	78	Cardiac Surgery	8
43352	Esophagostomy, fistuliza	78	Cardiac Surgery	8
43425	Closure of esophagosto	78	Cardiac Surgery	8
43800	Pyloroplasty	78	Cardiac Surgery	8
47605	Cholecystectomy; with c	78	Cardiac Surgery	8
49425	Insertion of peritoneal-ve	78	Cardiac Surgery	8
60600	Excision of carotid body	78	Cardiac Surgery	8
15732	Muscle, myocutaneous,	78	Cardiac Surgery	7
15750	Flap; neurovascular ped	78	Cardiac Surgery	7
15756	Free muscle or myocuta	78	Cardiac Surgery	7
19302	Mastectomy, partial (eg,	78	Cardiac Surgery	7
22808	Arthrodesis, anterior, for	78	Cardiac Surgery	7
27446	Arthroplasty, knee, cond	78	Cardiac Surgery	7

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27594	Amputation, thigh, throu	78	Cardiac Surgery	7
29823	Arthroscopy, shoulder, s	78	Cardiac Surgery	7
32661	Thoracoscopy, surgical;	78	Cardiac Surgery	7
33403	Valvuloplasty, aortic valv	78	Cardiac Surgery	7
33800	Aortic suspension (aortic	78	Cardiac Surgery	7
33922	Transection of pulmonar	78	Cardiac Surgery	7
34830	Open repair of infrarena	78	Cardiac Surgery	7
35276	Repair blood vessel with	78	Cardiac Surgery	7
38724	Cervical lymphadenecto	78	Cardiac Surgery	7
38745	Axillary lymphadenector	78	Cardiac Surgery	7
39530	Repair, diaphragmatic h	78	Cardiac Surgery	7
43320	Esophagogastrostomy (e	78	Cardiac Surgery	7
44180	Laparoscopy, surgical, e	78	Cardiac Surgery	7
44186	Laparoscopy, surgical; j	78	Cardiac Surgery	7
44626	Closure of enterostomy,	78	Cardiac Surgery	7
46260	Hemorrhoidectomy, inte	78	Cardiac Surgery	7
46947	Hemorrhoidopexy (eg, fe	78	Cardiac Surgery	7
47610	Cholecystectomy with ex	78	Cardiac Surgery	7
49062	Drainage of extraperiton	78	Cardiac Surgery	7
50220	Nephrectomy, including	78	Cardiac Surgery	7
64809	Sympathectomy, thorac	78	Cardiac Surgery	7
15931	Excision, sacral pressur	78	Cardiac Surgery	6
20900	Bone graft, any donor ar	78	Cardiac Surgery	6
23044	Arthrotomy, acromioclav	78	Cardiac Surgery	6
27372	Removal of foreign body	78	Cardiac Surgery	6
29824	Arthroscopy, shoulder, s	78	Cardiac Surgery	6
29827	Arthroscopy, shoulder, s	78	Cardiac Surgery	6
31825	Surgical closure tracheo	78	Cardiac Surgery	6
32660	Thoracoscopy, surgical;	78	Cardiac Surgery	6
32664	Thoracoscopy, surgical;	78	Cardiac Surgery	6
33468	Tricuspid valve repositio	78	Cardiac Surgery	6
33600	Closure of atrioventricul	78	Cardiac Surgery	6
35616	Bypass graft, with other	78	Cardiac Surgery	6
35901	Excision of infected graf	78	Cardiac Surgery	6
37605	Ligation; internal or com	78	Cardiac Surgery	6
43100	Excision of lesion, esopl	78	Cardiac Surgery	6
43405	Ligation or stapling at ga	78	Cardiac Surgery	6
43610	Excision, local; ulcer or l	78	Cardiac Surgery	6
43653	Laparoscopy, surgical; g	78	Cardiac Surgery	6
44020	Enterotomy, small intest	78	Cardiac Surgery	6
49525	Repair inguinal hernia, s	78	Cardiac Surgery	6
49550	Repair initial femoral he	78	Cardiac Surgery	6
49590	Repair spigelian hernia	78	Cardiac Surgery	6
63017	Laminectomy with explo	78	Cardiac Surgery	6
63042	Laminotomy (hemilamin	78	Cardiac Surgery	6
35537	Bypass graft, with vein; ;	78	Cardiac Surgery	6
35538	Bypass graft, with vein; ;	78	Cardiac Surgery	6
14020	Adjacent tissue transfer	78	Cardiac Surgery	5
15740	Flap; island pedicle	78	Cardiac Surgery	5
20693	Adjustment or revision o	78	Cardiac Surgery	5
21502	Incision and drainage, d	78	Cardiac Surgery	5
22900	Excision, abdominal wal	78	Cardiac Surgery	5

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23470	Arthroplasty, glenohume	78	Cardiac Surgery	5
27328	Excision, tumor, thigh or	78	Cardiac Surgery	5
27486	Revision of total knee ar	78	Cardiac Surgery	5
27592	Amputation, thigh, throu	78	Cardiac Surgery	5
28150	Phalangeotomy, toe, eac	78	Cardiac Surgery	5
31760	Tracheoplasty; intrathora	78	Cardiac Surgery	5
31780	Excision tracheal stenosis	78	Cardiac Surgery	5
32810	Closure of chest wall fol	78	Cardiac Surgery	5
32906	Thoracoplasty, Schede f	78	Cardiac Surgery	5
33476	Right ventricular resectio	78	Cardiac Surgery	5
34451	Thrombectomy, direct or	78	Cardiac Surgery	5
34832	Open repair of infrarena	78	Cardiac Surgery	5
35111	Direct repair of aneurysm	78	Cardiac Surgery	5
35281	Repair blood vessel with	78	Cardiac Surgery	5
35533	Bypass graft, with vein; c	78	Cardiac Surgery	5
37780	Ligation and division of s	78	Cardiac Surgery	5
38562	Limited lymphadenector	78	Cardiac Surgery	5
43325	Esophagogastric fundop	78	Cardiac Surgery	5
43502	Gastrotomy; with suture	78	Cardiac Surgery	5
43632	Gastrectomy, partial, dis	78	Cardiac Surgery	5
43870	Closure of gastrostomy,	78	Cardiac Surgery	5
44310	Ileostomy or jejunostom	78	Cardiac Surgery	5
47350	Management of liver he	78	Cardiac Surgery	5
60260	Thyroidectomy, removal	78	Cardiac Surgery	5
62350	Implantation, revision or	78	Cardiac Surgery	5
14021	Adjacent tissue transfer	78	Cardiac Surgery	4
15736	Muscle, myocutaneous,	78	Cardiac Surgery	4
17107	Destruction of cutaneous	78	Cardiac Surgery	4
21820	Closed treatment of ster	78	Cardiac Surgery	4
22830	Exploration of spinal fus	78	Cardiac Surgery	4
22852	Removal of posterior se	78	Cardiac Surgery	4
22855	Removal of anterior inst	78	Cardiac Surgery	4
24075	Excision, tumor, soft tiss	78	Cardiac Surgery	4
25020	Decompression fasciotom	78	Cardiac Surgery	4
26951	Amputation, finger or thu	78	Cardiac Surgery	4
27345	Excision of synovial cyst	78	Cardiac Surgery	4
27881	Amputation, leg, through	78	Cardiac Surgery	4
27892	Decompression fasciotom	78	Cardiac Surgery	4
31820	Surgical closure tracheo	78	Cardiac Surgery	4
33401	Valvuloplasty, aortic valv	78	Cardiac Surgery	4
33413	Replacement, aortic valv	78	Cardiac Surgery	4
33736	Atrial septectomy or sep	78	Cardiac Surgery	4
33845	Excision of coarctation c	78	Cardiac Surgery	4
33851	Excision of coarctation c	78	Cardiac Surgery	4
33886	Placement of distal exte	78	Cardiac Surgery	4
33935	Heart-lung transplant wi	78	Cardiac Surgery	4
35510	Bypass graft, with vein; c	78	Cardiac Surgery	4
35548	Bypass graft, with vein; c	78	Cardiac Surgery	4
35551	Bypass graft, with vein; c	78	Cardiac Surgery	4
37735	Ligation and division and	78	Cardiac Surgery	4
43045	Esophagotomy, thoracic	78	Cardiac Surgery	4
44146	Colectomy, partial; with	78	Cardiac Surgery	4

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44150	Colectomy, total, abdom	78	Cardiac Surgery	4
44202	Laparoscopy, surgical; e	78	Cardiac Surgery	4
44604	Suture of large intestine	78	Cardiac Surgery	4
46255	Hemorrhoidectomy, inte	78	Cardiac Surgery	4
47510	Introduction of percutane	78	Cardiac Surgery	4
49040	Drainage of subdiaphrag	78	Cardiac Surgery	4
49566	Repair recurrent incision	78	Cardiac Surgery	4
49572	Repair epigastric hernia	78	Cardiac Surgery	4
49650	Laparoscopy, surgical; r	78	Cardiac Surgery	4
58720	Salpingo-oophorectomy	78	Cardiac Surgery	4
60252	Thyroidectomy, total or s	78	Cardiac Surgery	4
60540	Adrenalectomy, partial c	78	Cardiac Surgery	4
60605	Excision of carotid body	78	Cardiac Surgery	4
62362	Implantation or replacen	78	Cardiac Surgery	4
63005	Laminectomy with explo	78	Cardiac Surgery	4
64752	Transection or avulsion	78	Cardiac Surgery	4
33676	Closure of multiple vent	78	Cardiac Surgery	4
33677	Closure of multiple vent	78	Cardiac Surgery	4
19020	Mastotomy with explorat	78	Cardiac Surgery	3
19300	Mastectomy for gynecor	78	Cardiac Surgery	3
19304	Mastectomy, subcutane	78	Cardiac Surgery	3
21805	Open treatment of rib fra	78	Cardiac Surgery	3
22224	Osteotomy of spine, incl	78	Cardiac Surgery	3
22610	Arthrodesis, posterior or	78	Cardiac Surgery	3
23200	Radical resection for tur	78	Cardiac Surgery	3
23480	Osteotomy, clavicle, with	78	Cardiac Surgery	3
24076	Excision, tumor, soft tiss	78	Cardiac Surgery	3
24201	Removal of foreign body	78	Cardiac Surgery	3
25024	Decompression fasciotom	78	Cardiac Surgery	3
25075	Excision, tumor, soft tiss	78	Cardiac Surgery	3
25076	Excision, tumor, soft tiss	78	Cardiac Surgery	3
25248	Exploration with removal	78	Cardiac Surgery	3
27047	Excision, tumor, pelvis a	78	Cardiac Surgery	3
27244	Treatment of intertrocha	78	Cardiac Surgery	3
27327	Excision, tumor, thigh or	78	Cardiac Surgery	3
27498	Decompression fasciotom	78	Cardiac Surgery	3
27601	Decompression fasciotom	78	Cardiac Surgery	3
31614	Tracheostoma revision;	78	Cardiac Surgery	3
31800	Suture of tracheal wound	78	Cardiac Surgery	3
31805	Suture of tracheal wound	78	Cardiac Surgery	3
33321	Suture repair of aorta or	78	Cardiac Surgery	3
33610	Repair of complex cardi	78	Cardiac Surgery	3
33617	Repair of complex cardi	78	Cardiac Surgery	3
33730	Complete repair of anon	78	Cardiac Surgery	3
33813	Obliteration of aortopulm	78	Cardiac Surgery	3
34520	Cross-over vein graft to	78	Cardiac Surgery	3
34530	Saphenopopliteal vein a	78	Cardiac Surgery	3
35022	Direct repair of aneurysm	78	Cardiac Surgery	3
35246	Repair blood vessel with	78	Cardiac Surgery	3
35508	Bypass graft, with vein; e	78	Cardiac Surgery	3
35521	Bypass graft, with vein; e	78	Cardiac Surgery	3
35526	Bypass graft, with vein; e	78	Cardiac Surgery	3

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35549	Bypass graft, with vein; s	78	Cardiac Surgery	3
35694	Transposition and/or rei	78	Cardiac Surgery	3
35695	Transposition and/or rei	78	Cardiac Surgery	3
35870	Repair of graft-enteric fi	78	Cardiac Surgery	3
36835	Insertion of Thomas shu	78	Cardiac Surgery	3
37140	Venous anastomosis, op	78	Cardiac Surgery	3
37600	Ligation; external carotid	78	Cardiac Surgery	3
37650	Ligation of femoral vein	78	Cardiac Surgery	3
38115	Repair of ruptured splee	78	Cardiac Surgery	3
38305	Drainage of lymph node	78	Cardiac Surgery	3
38564	Limited lymphadenector	78	Cardiac Surgery	3
38720	Cervical lymphadenecto	78	Cardiac Surgery	3
43108	Total or near total esoph	78	Cardiac Surgery	3
43300	Esophagoplasty (plastic	78	Cardiac Surgery	3
43305	Esophagoplasty (plastic	78	Cardiac Surgery	3
43360	Gastrointestinal reconst	78	Cardiac Surgery	3
43501	Gastrotomy; with suture	78	Cardiac Surgery	3
43633	Gastrectomy, partial, dis	78	Cardiac Surgery	3
43820	Gastrojejunostomy; with	78	Cardiac Surgery	3
44021	Enterotomy, small intest	78	Cardiac Surgery	3
44205	Laparoscopy, surgical; c	78	Cardiac Surgery	3
44340	Revision of colostomy; s	78	Cardiac Surgery	3
44960	Appendectomy; for ruptu	78	Cardiac Surgery	3
47300	Marsupialization of cyst	78	Cardiac Surgery	3
47480	Cholecystotomy or chole	78	Cardiac Surgery	3
47564	Laparoscopy, surgical; c	78	Cardiac Surgery	3
50360	Renal allotransplantatio	78	Cardiac Surgery	3
55866	Laparoscopy, surgical p	78	Cardiac Surgery	3
58740	Lysis of adhesions (salp	78	Cardiac Surgery	3
58940	Oophorectomy, partial o	78	Cardiac Surgery	3
62223	Creation of shunt; ventri	78	Cardiac Surgery	3
64708	Neuroplasty, major perip	78	Cardiac Surgery	3
64774	Excision of neuroma; cu	78	Cardiac Surgery	3
77776	Interstitial radiation sour	78	Cardiac Surgery	3
15120	Split-thickness autograft	78	Cardiac Surgery	2
15830	Excision, excessive skin	78	Cardiac Surgery	2
15574	Formation of direct or tu	78	Cardiac Surgery	2
15757	Free skin flap with micro	78	Cardiac Surgery	2
17106	Destruction of cutaneous	78	Cardiac Surgery	2
19305	Mastectomy, radical, inc	78	Cardiac Surgery	2
19328	Removal of intact mamr	78	Cardiac Surgery	2
21700	Division of scalenus anti	78	Cardiac Surgery	2
21720	Division of sternocleidor	78	Cardiac Surgery	2
22015	Incision and drainage, o	78	Cardiac Surgery	2
22533	Arthrodesis, lateral extra	78	Cardiac Surgery	2
22802	Arthrodesis, posterior, fo	78	Cardiac Surgery	2
22810	Arthrodesis, anterior, fo	78	Cardiac Surgery	2
22818	Kyphectomy, circumfere	78	Cardiac Surgery	2
22849	Reinsertion of spinal fixa	78	Cardiac Surgery	2
23066	Biopsy, soft tissue of sh	78	Cardiac Surgery	2
23076	Excision, soft tissue tum	78	Cardiac Surgery	2
23077	Radical resection of tum	78	Cardiac Surgery	2

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23170	Sequestrectomy (eg, for	78	Cardiac Surgery	2
23180	Partial excision (crateriz	78	Cardiac Surgery	2
23210	Radical resection for tun	78	Cardiac Surgery	2
23410	Repair of ruptured musc	78	Cardiac Surgery	2
25000	Incision, extensor tendo	78	Cardiac Surgery	2
26910	Amputation, metacarpal	78	Cardiac Surgery	2
27049	Radical resection of tum	78	Cardiac Surgery	2
27132	Conversion of previous l	78	Cardiac Surgery	2
27134	Revision of total hip arth	78	Cardiac Surgery	2
27137	Revision of total hip arth	78	Cardiac Surgery	2
27295	Disarticulation of hip	78	Cardiac Surgery	2
27305	Fasciotomy, iliotibial (ter	78	Cardiac Surgery	2
27324	Biopsy, soft tissue of thi	78	Cardiac Surgery	2
27329	Radical resection of tum	78	Cardiac Surgery	2
28060	Fasciectomy, plantar fas	78	Cardiac Surgery	2
31781	Excision tracheal stenose	78	Cardiac Surgery	2
31786	Excision of tracheal tum	78	Cardiac Surgery	2
31830	Revision of tracheostom	78	Cardiac Surgery	2
32665	Thoracoscopy, surgical;	78	Cardiac Surgery	2
33611	Repair of double outlet r	78	Cardiac Surgery	2
33690	Banding of pulmonary a	78	Cardiac Surgery	2
33732	Repair of cor triatriatum	78	Cardiac Surgery	2
33735	Atrial septectomy or sep	78	Cardiac Surgery	2
33737	Atrial septectomy or sep	78	Cardiac Surgery	2
33750	Shunt; subclavian to pul	78	Cardiac Surgery	2
33764	Shunt; central, with pros	78	Cardiac Surgery	2
33802	Division of aberrant vess	78	Cardiac Surgery	2
33840	Excision of coarctation c	78	Cardiac Surgery	2
33915	Pulmonary artery embol	78	Cardiac Surgery	2
34401	Thrombectomy, direct o	78	Cardiac Surgery	2
35152	Direct repair of aneurysr	78	Cardiac Surgery	2
35182	Repair, congenital arteri	78	Cardiac Surgery	2
35251	Repair blood vessel with	78	Cardiac Surgery	2
35515	Bypass graft, with vein; s	78	Cardiac Surgery	2
35691	Transposition and/or rei	78	Cardiac Surgery	2
35905	Excision of infected graf	78	Cardiac Surgery	2
36262	Removal of implanted in	78	Cardiac Surgery	2
37565	Ligation, internal jugular	78	Cardiac Surgery	2
37615	Ligation, major artery (e	78	Cardiac Surgery	2
39503	Repair, neonatal diaphra	78	Cardiac Surgery	2
42415	Excision of parotid tumo	78	Cardiac Surgery	2
43020	Esophagotomy, cervical	78	Cardiac Surgery	2
43500	Gastrotomy; with explor	78	Cardiac Surgery	2
43605	Biopsy of stomach; by la	78	Cardiac Surgery	2
43620	Gastrectomy, total; with	78	Cardiac Surgery	2
43631	Gastrectomy, partial, dis	78	Cardiac Surgery	2
43640	Vagotomy including pylc	78	Cardiac Surgery	2
44110	Excision of one or more	78	Cardiac Surgery	2
44147	Colectomy, partial; abdo	78	Cardiac Surgery	2
44155	Colectomy, total, abdom	78	Cardiac Surgery	2
44208	Laparoscopy, surgical; c	78	Cardiac Surgery	2
44312	Revision of ileostomy; si	78	Cardiac Surgery	2

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44605	Suture of large intestine	78	Cardiac Surgery	2
44620	Closure of enterostomy,	78	Cardiac Surgery	2
44800	Excision of Meckel's div	78	Cardiac Surgery	2
46040	Incision and drainage of	78	Cardiac Surgery	2
46250	Hemorrhoidectomy, exte	78	Cardiac Surgery	2
47010	Hepatotomy; for open dr	78	Cardiac Surgery	2
47361	Management of liver he	78	Cardiac Surgery	2
47741	Cholecystoenterostomy;	78	Cardiac Surgery	2
49521	Repair recurrent inguina	78	Cardiac Surgery	2
49600	Repair of small omphalo	78	Cardiac Surgery	2
49651	Laparoscopy, surgical; r	78	Cardiac Surgery	2
50020	Drainage of perirenal or	78	Cardiac Surgery	2
50100	Transection or repositio	78	Cardiac Surgery	2
51865	Cystorrhaphy, suture of	78	Cardiac Surgery	2
54520	Orchiectomy, simple (inc	78	Cardiac Surgery	2
55520	Excision of lesion of spe	78	Cardiac Surgery	2
55842	Prostatectomy, retropub	78	Cardiac Surgery	2
55845	Prostatectomy, retropub	78	Cardiac Surgery	2
61108	Twist drill hole(s) for sub	78	Cardiac Surgery	2
61312	Craniectomy or cranioto	78	Cardiac Surgery	2
61510	Craniectomy, trephinatic	78	Cardiac Surgery	2
61618	Secondary repair of dura	78	Cardiac Surgery	2
63012	Laminectomy with remo	78	Cardiac Surgery	2
63015	Laminectomy with explo	78	Cardiac Surgery	2
63046	Laminectomy, facetecto	78	Cardiac Surgery	2
63685	Insertion or replacement	78	Cardiac Surgery	2
64718	Neuroplasty and/or trans	78	Cardiac Surgery	2
64792	Excision of neurofibroma	78	Cardiac Surgery	2
64804	Sympathectomy, cervicc	78	Cardiac Surgery	2
33505	Repair of anomalous co	78	Cardiac Surgery	2
49255	Omentectomy, epiploect	78	Cardiac Surgery	1
44188	Laparoscopy, surgical, c	78	Cardiac Surgery	1
43887	Gastric restrictive proce	78	Cardiac Surgery	1
15155	Tissue cultured epiderm	78	Cardiac Surgery	1
14040	Adjacent tissue transfer	78	Cardiac Surgery	1
14041	Adjacent tissue transfer	78	Cardiac Surgery	1
14060	Adjacent tissue transfer	78	Cardiac Surgery	1
14300	Adjacent tissue transfer	78	Cardiac Surgery	1
15170	Acellular dermal replace	78	Cardiac Surgery	1
15220	Full thickness graft, free	78	Cardiac Surgery	1
15300	Allograft skin for tempor	78	Cardiac Surgery	1
15360	Tissue cultured allogene	78	Cardiac Surgery	1
15572	Formation of direct or tu	78	Cardiac Surgery	1
15600	Delay of flap or sectionir	78	Cardiac Surgery	1
15650	Transfer, intermediate, c	78	Cardiac Surgery	1
15936	Excision, sacral pressur	78	Cardiac Surgery	1
15937	Excision, sacral pressur	78	Cardiac Surgery	1
15950	Excision, trochanteric pr	78	Cardiac Surgery	1
19361	Breast reconstruction wi	78	Cardiac Surgery	1
19371	Periprosthetic capsulect	78	Cardiac Surgery	1
20690	Application of a uniplane	78	Cardiac Surgery	1
21280	Medial canthopexy (sep	78	Cardiac Surgery	1

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21440	Closed treatment of ma	78	Cardiac Surgery	1
21610	Costotransversectomy (78	Cardiac Surgery	1
21742	Reconstructive repair of	78	Cardiac Surgery	1
21743	Reconstructive repair of	78	Cardiac Surgery	1
21810	Treatment of rib fracture	78	Cardiac Surgery	1
21925	Biopsy, soft tissue of ba	78	Cardiac Surgery	1
22010	Incision and drainage, o	78	Cardiac Surgery	1
22110	Partial excision of verteb	78	Cardiac Surgery	1
22112	Partial excision of verteb	78	Cardiac Surgery	1
22222	Osteotomy of spine, incl	78	Cardiac Surgery	1
22325	Open treatment and/or r	78	Cardiac Surgery	1
22327	Open treatment and/or r	78	Cardiac Surgery	1
22600	Arthrodesis, posterior or	78	Cardiac Surgery	1
22630	Arthrodesis, posterior in	78	Cardiac Surgery	1
23101	Arthrotomy, acromioclav	78	Cardiac Surgery	1
23140	Excision or curettage of	78	Cardiac Surgery	1
23190	Ostectomy of scapula, p	78	Cardiac Surgery	1
23332	Removal of foreign body	78	Cardiac Surgery	1
23412	Repair of ruptured musc	78	Cardiac Surgery	1
23430	Tenodesis of long tendo	78	Cardiac Surgery	1
24066	Biopsy, soft tissue of up	78	Cardiac Surgery	1
25066	Biopsy, soft tissue of for	78	Cardiac Surgery	1
25900	Amputation, forearm, thi	78	Cardiac Surgery	1
26037	Decompressive fascioto	78	Cardiac Surgery	1
26115	Excision, tumor or vascu	78	Cardiac Surgery	1
26750	Closed treatment of dist	78	Cardiac Surgery	1
26820	Fusion in opposition, thu	78	Cardiac Surgery	1
27025	Fasciotomy, hip or thigh	78	Cardiac Surgery	1
27041	Biopsy, soft tissue of pe	78	Cardiac Surgery	1
27065	Excision of bone cyst or	78	Cardiac Surgery	1
27066	Excision of bone cyst or	78	Cardiac Surgery	1
27236	Open treatment of femo	78	Cardiac Surgery	1
27248	Open treatment of great	78	Cardiac Surgery	1
27418	Anterior tibial tuberclepl	78	Cardiac Surgery	1
27438	Arthroplasty, patella; wit	78	Cardiac Surgery	1
27496	Decompression fascioto	78	Cardiac Surgery	1
27507	Open treatment of femo	78	Cardiac Surgery	1
27607	Incision (eg, osteomyelit	78	Cardiac Surgery	1
27610	Arthrotomy, ankle, includ	78	Cardiac Surgery	1
27618	Excision, tumor, leg or a	78	Cardiac Surgery	1
27619	Excision, tumor, leg or a	78	Cardiac Surgery	1
27630	Excision of lesion of ten	78	Cardiac Surgery	1
27698	Repair, secondary, disru	78	Cardiac Surgery	1
27705	Osteotomy; tibia	78	Cardiac Surgery	1
27889	Ankle disarticulation	78	Cardiac Surgery	1
27893	Decompression fascioto	78	Cardiac Surgery	1
27894	Decompression fascioto	78	Cardiac Surgery	1
28003	Incision and drainage be	78	Cardiac Surgery	1
28005	Incision, bone cortex (eg	78	Cardiac Surgery	1
28112	Ostectomy, complete ex	78	Cardiac Surgery	1
28120	Partial excision (crateriz	78	Cardiac Surgery	1
28160	Hemiphalangectomy or	78	Cardiac Surgery	1

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29880	Arthroscopy, knee, surg	78	Cardiac Surgery	1
29888	Arthroscopically aided a	78	Cardiac Surgery	1
31365	Laryngectomy; total, with	78	Cardiac Surgery	1
31750	Tracheoplasty; cervical	78	Cardiac Surgery	1
31766	Carinal reconstruction	78	Cardiac Surgery	1
31785	Excision of tracheal tum	78	Cardiac Surgery	1
32442	Removal of lung, total p	78	Cardiac Surgery	1
33332	Insertion of graft, aorta c	78	Cardiac Surgery	1
33472	Valvotomy, pulmonary v	78	Cardiac Surgery	1
33474	Valvotomy, pulmonary v	78	Cardiac Surgery	1
33503	Repair of anomalous co	78	Cardiac Surgery	1
33506	Repair of anomalous co	78	Cardiac Surgery	1
33670	Repair of complete atrio	78	Cardiac Surgery	1
33684	Closure of single ventric	78	Cardiac Surgery	1
33688	Closure of single ventric	78	Cardiac Surgery	1
33710	Repair sinus of Valsalva	78	Cardiac Surgery	1
33767	Shunt; superior vena ca	78	Cardiac Surgery	1
33771	Repair of transposition c	78	Cardiac Surgery	1
33778	Repair of transposition c	78	Cardiac Surgery	1
33786	Total repair, truncus arte	78	Cardiac Surgery	1
33824	Repair of patent ductus	78	Cardiac Surgery	1
33852	Repair of hypoplastic or	78	Cardiac Surgery	1
35122	Direct repair of aneurysm	78	Cardiac Surgery	1
35188	Repair, acquired or traum	78	Cardiac Surgery	1
35207	Repair blood vessel, dire	78	Cardiac Surgery	1
35231	Repair blood vessel with	78	Cardiac Surgery	1
35511	Bypass graft, with vein; s	78	Cardiac Surgery	1
35512	Bypass graft, with vein; s	78	Cardiac Surgery	1
35563	Bypass graft, with vein; i	78	Cardiac Surgery	1
35645	Bypass graft, with other	78	Cardiac Surgery	1
35693	Transposition and/or rei	78	Cardiac Surgery	1
36260	Insertion of implantable	78	Cardiac Surgery	1
36261	Revision of implanted in	78	Cardiac Surgery	1
37160	Venous anastomosis, op	78	Cardiac Surgery	1
37660	Ligation of common iliac	78	Cardiac Surgery	1
38101	Splenectomy; partial (se	78	Cardiac Surgery	1
38382	Suture and/or ligation of	78	Cardiac Surgery	1
38550	Excision of cystic hydror	78	Cardiac Surgery	1
38555	Excision of cystic hydror	78	Cardiac Surgery	1
38700	Suprahyoid lymphadene	78	Cardiac Surgery	1
38765	Inguinofemoral lymphad	78	Cardiac Surgery	1
38794	Cannulation, thoracic du	78	Cardiac Surgery	1
39531	Repair, diaphragmatic h	78	Cardiac Surgery	1
42408	Excision of sublingual sa	78	Cardiac Surgery	1
42410	Excision of parotid tumo	78	Cardiac Surgery	1
42725	Incision and drainage ab	78	Cardiac Surgery	1
43113	Total or near total esoph	78	Cardiac Surgery	1
43312	Esophagoplasty (plastic	78	Cardiac Surgery	1
43313	Esophagoplasty for cong	78	Cardiac Surgery	1
43351	Esophagostomy, fistuliza	78	Cardiac Surgery	1
43400	Ligation, direct, esophag	78	Cardiac Surgery	1
43401	Transection of esophag	78	Cardiac Surgery	1

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43611	Excision, local; malignant	78	Cardiac Surgery	1
43622	Gastrectomy, total; with	78	Cardiac Surgery	1
43810	Gastroduodenostomy	78	Cardiac Surgery	1
43846	Gastric restrictive proce	78	Cardiac Surgery	1
43860	Revision of gastrojejuna	78	Cardiac Surgery	1
43880	Closure of gastrocolic fis	78	Cardiac Surgery	1
44010	Duodenotomy, for explo	78	Cardiac Surgery	1
44025	Colotomy, for exploratio	78	Cardiac Surgery	1
44125	Enterectomy, resection o	78	Cardiac Surgery	1
44126	Enterectomy, resection o	78	Cardiac Surgery	1
44151	Colectomy, total, abdom	78	Cardiac Surgery	1
44206	Laparoscopy, surgical; c	78	Cardiac Surgery	1
44210	Laparoscopy, surgical; c	78	Cardiac Surgery	1
44345	Revision of colostomy; c	78	Cardiac Surgery	1
44650	Closure of enteroenteric	78	Cardiac Surgery	1
44660	Closure of enterovesical	78	Cardiac Surgery	1
44820	Excision of lesion of me	78	Cardiac Surgery	1
45100	Biopsy of anorectal wall,	78	Cardiac Surgery	1
45170	Excision of rectal tumor,	78	Cardiac Surgery	1
45190	Destruction of rectal tum	78	Cardiac Surgery	1
46045	Incision and drainage of	78	Cardiac Surgery	1
46060	Incision and drainage of	78	Cardiac Surgery	1
46945	Ligation of internal hemo	78	Cardiac Surgery	1
47015	Laparotomy, with aspira	78	Cardiac Surgery	1
47120	Hepatectomy, resection	78	Cardiac Surgery	1
47125	Hepatectomy, resection	78	Cardiac Surgery	1
47612	Cholecystectomy with ex	78	Cardiac Surgery	1
47760	Anastomosis, of extrahe	78	Cardiac Surgery	1
47780	Anastomosis, Roux-en-Y	78	Cardiac Surgery	1
48100	Biopsy of pancreas, ope	78	Cardiac Surgery	1
48105	Resection or debrideme	78	Cardiac Surgery	1
48140	Pancreatectomy, distal s	78	Cardiac Surgery	1
48150	Pancreatectomy, proxim	78	Cardiac Surgery	1
48153	Pancreatectomy, proxim	78	Cardiac Surgery	1
49323	Laparoscopy, surgical; v	78	Cardiac Surgery	1
49402	Removal of peritoneal fo	78	Cardiac Surgery	1
49553	Repair initial femoral he	78	Cardiac Surgery	1
50234	Nephrectomy with total u	78	Cardiac Surgery	1
50240	Nephrectomy, partial	78	Cardiac Surgery	1
50540	Symphysiotomy for hors	78	Cardiac Surgery	1
50546	Laparoscopy, surgical; r	78	Cardiac Surgery	1
50605	Ureterotomy for insertio	78	Cardiac Surgery	1
50715	Ureterolysis, with or with	78	Cardiac Surgery	1
51040	Cystostomy, cystotomy v	78	Cardiac Surgery	1
51555	Cystectomy, partial; com	78	Cardiac Surgery	1
55040	Excision of hydrocele; u	78	Cardiac Surgery	1
55060	Repair of tunica vaginali	78	Cardiac Surgery	1
55500	Excision of hydrocele of	78	Cardiac Surgery	1
57300	Closure of rectovaginal f	78	Cardiac Surgery	1
58140	Myomectomy, excision o	78	Cardiac Surgery	1
58660	Laparoscopy, surgical; v	78	Cardiac Surgery	1
58925	Ovarian cystectomy, uni	78	Cardiac Surgery	1

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60212	Partial thyroid lobectomy	78	Cardiac Surgery	1	
60225	Total thyroid lobectomy,	78	Cardiac Surgery	1	
60254	Thyroidectomy, total or s	78	Cardiac Surgery	1	
61313	Craniectomy or cranioto	78	Cardiac Surgery	1	
61512	Craniectomy, trephinic	78	Cardiac Surgery	1	
61520	Craniectomy for excision	78	Cardiac Surgery	1	
61615	Resection or excision of	78	Cardiac Surgery	1	
62220	Creation of shunt; ventri	78	Cardiac Surgery	1	
62256	Removal of complete ce	78	Cardiac Surgery	1	
62355	Removal of previously in	78	Cardiac Surgery	1	
62360	Implantation or replacen	78	Cardiac Surgery	1	
62365	Removal of subcutaneous	78	Cardiac Surgery	1	
63030	Laminotomy (hemilamin	78	Cardiac Surgery	1	
63045	Laminectomy, facetecto	78	Cardiac Surgery	1	
63055	Transpedicular approach	78	Cardiac Surgery	1	
63081	Vertebral corpectomy (v	78	Cardiac Surgery	1	
63102	Vertebral corpectomy (v	78	Cardiac Surgery	1	
63267	Laminectomy for excisio	78	Cardiac Surgery	1	
63302	Vertebral corpectomy (v	78	Cardiac Surgery	1	
63303	Vertebral corpectomy (v	78	Cardiac Surgery	1	
63305	Vertebral corpectomy (v	78	Cardiac Surgery	1	
63688	Revision or removal of in	78	Cardiac Surgery	1	
63710	Dural graft, spinal	78	Cardiac Surgery	1	
64580	Incision for implantation	78	Cardiac Surgery	1	
64713	Neuroplasty, major perip	78	Cardiac Surgery	1	
64714	Neuroplasty, major perip	78	Cardiac Surgery	1	
64722	Decompression; unspec	78	Cardiac Surgery	1	
64784	Excision of neuroma; ma	78	Cardiac Surgery	1	
66984	Extracapsular cataract r	78	Cardiac Surgery	1	
92990	Percutaneous balloon va	78	Cardiac Surgery	1	
58957	Resection (tumor debulk	78	Cardiac Surgery	1	
44130	Enteroenterostomy, ana	78	Cardiac Surgery	1	
15115	Epidermal autograft, fac	78	Cardiac Surgery	1	
15400	Xenograft, skin (dermal)	78	Cardiac Surgery	0	
44187	Laparoscopy, surgical; il	78	Cardiac Surgery	0	
15110	Epidermal autograft, tru	78	Cardiac Surgery	0	
15130	Dermal autograft, trunk,	78	Cardiac Surgery	0	
58958	Resection (tumor debulk	78	Cardiac Surgery	0	
38780	Retroperitoneal transab	78	Cardiac Surgery	0	
15150	Tissue cultured epiderm	78	Cardiac Surgery	0	
43886	Gastric restrictive proce	78	Cardiac Surgery	0	
43888	Gastric restrictive proce	78	Cardiac Surgery	0	
44157	Colectomy, total, abdom	78	Cardiac Surgery	0	
44158	Colectomy, total, abdom	78	Cardiac Surgery	0	
15420	Xenograft skin (dermal),	78	Cardiac Surgery	0	
15135	Dermal autograft, face, s	78	Cardiac Surgery	0	
15175	Acellular dermal replace	78	Cardiac Surgery	0	
43770	Laparoscopy, surgical, g	78	Cardiac Surgery	0	
43774	Laparoscopy, surgical, g	78	Cardiac Surgery	0	
64910	Nerve repair; with synthe	78	Cardiac Surgery	0	
64911	Nerve repair; with autog	78	Cardiac Surgery	0	227,379
46934	Destruction of hemorrh	28	Colorectal Surgery	7,660	

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44140	Colectomy, partial; with	28	Colorectal Surgery	3,490
44145	Colectomy, partial; with	28	Colorectal Surgery	3,074
44160	Colectomy, partial, with	28	Colorectal Surgery	2,606
46260	Hemorrhoidectomy, inte	28	Colorectal Surgery	2,577
45170	Excision of rectal tumor,	28	Colorectal Surgery	2,457
44204	Laparoscopy, surgical; c	28	Colorectal Surgery	2,137
44205	Laparoscopy, surgical; c	28	Colorectal Surgery	1,755
44120	Enterectomy, resection o	28	Colorectal Surgery	1,455
45130	Excision of rectal procid	28	Colorectal Surgery	1,450
44207	Laparoscopy, surgical; c	28	Colorectal Surgery	1,301
49560	Repair initial incisional o	28	Colorectal Surgery	1,150
46947	Hemorrhoidopexy (eg, fe	28	Colorectal Surgery	1,106
44143	Colectomy, partial; with	28	Colorectal Surgery	1,070
46040	Incision and drainage of	28	Colorectal Surgery	860
47562	Laparoscopy, surgical; c	28	Colorectal Surgery	860
46200	Fissurectomy, with or wi	28	Colorectal Surgery	798
44150	Colectomy, total, abdom	28	Colorectal Surgery	791
46280	Surgical treatment of an	28	Colorectal Surgery	721
46255	Hemorrhoidectomy, inte	28	Colorectal Surgery	701
45110	Proctectomy; complete,	28	Colorectal Surgery	638
44310	Ileostomy or jejunostom	28	Colorectal Surgery	638
44320	Colostomy or skin level	28	Colorectal Surgery	634
49505	Repair initial inguinal he	28	Colorectal Surgery	600
44005	Enterolysis (freeing of in	28	Colorectal Surgery	584
46945	Ligation of internal hemo	28	Colorectal Surgery	576
44626	Closure of enterostomy,	28	Colorectal Surgery	552
44625	Closure of enterostomy,	28	Colorectal Surgery	508
44146	Colectomy, partial; with	28	Colorectal Surgery	490
45395	Laparoscopy, surgical; p	28	Colorectal Surgery	490
44227	Laparoscopy, surgical, c	28	Colorectal Surgery	484
47600	Cholecystectomy;	28	Colorectal Surgery	471
46275	Surgical treatment of an	28	Colorectal Surgery	457
44620	Closure of enterostomy,	28	Colorectal Surgery	437
46700	Anoplasty, plastic opera	28	Colorectal Surgery	427
45100	Biopsy of anorectal wall,	28	Colorectal Surgery	405
47563	Laparoscopy, surgical; c	28	Colorectal Surgery	389
46060	Incision and drainage of	28	Colorectal Surgery	375
46936	Destruction of hemorrhoid	28	Colorectal Surgery	374
46946	Ligation of internal hemo	28	Colorectal Surgery	365
45123	Proctectomy, partial, wit	28	Colorectal Surgery	352
46750	Sphincteroplasty, anal, f	28	Colorectal Surgery	348
45560	Repair of rectocele (sep	28	Colorectal Surgery	334
46250	Hemorrhoidectomy, exte	28	Colorectal Surgery	328
44346	Revision of colostomy; v	28	Colorectal Surgery	326
44188	Laparoscopy, surgical, c	28	Colorectal Surgery	323
49561	Repair initial incisional o	28	Colorectal Surgery	315
49585	Repair umbilical hernia,	28	Colorectal Surgery	307
46270	Surgical treatment of an	28	Colorectal Surgery	294
45400	Laparoscopy, surgical; p	28	Colorectal Surgery	288
44602	Suture of small intestine	28	Colorectal Surgery	277
44155	Colectomy, total, abdom	28	Colorectal Surgery	275
46261	Hemorrhoidectomy, inte	28	Colorectal Surgery	270

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44700	Exclusion of small intestine	28	Colorectal Surgery	268
43830	Gastrostomy, open; with	28	Colorectal Surgery	261
44141	Colectomy, partial; with	28	Colorectal Surgery	251
49020	Drainage of peritoneal a	28	Colorectal Surgery	248
49000	Exploratory laparotomy,	28	Colorectal Surgery	238
45541	Proctopexy (eg, for prol	28	Colorectal Surgery	230
49565	Repair recurrent incision	28	Colorectal Surgery	225
58720	Salpingo-oophorectomy	28	Colorectal Surgery	225
45505	Proctoplasty; for prolaps	28	Colorectal Surgery	223
47100	Biopsy of liver, wedge	28	Colorectal Surgery	223
44314	Revision of ileostomy; co	28	Colorectal Surgery	170
44147	Colectomy, partial; abdo	28	Colorectal Surgery	169
44970	Laparoscopy, surgical, a	28	Colorectal Surgery	163
45402	Laparoscopy, surgical; p	28	Colorectal Surgery	157
46761	Sphincteroplasty, anal, f	28	Colorectal Surgery	157
49002	Reopening of recent lap	28	Colorectal Surgery	157
49566	Repair recurrent incision	28	Colorectal Surgery	156
44345	Revision of colostomy; c	28	Colorectal Surgery	153
44144	Colectomy, partial; with	28	Colorectal Surgery	149
45550	Proctopexy (eg, for prol	28	Colorectal Surgery	143
49507	Repair initial inguinal he	28	Colorectal Surgery	140
45397	Laparoscopy, surgical; p	28	Colorectal Surgery	138
45112	Proctectomy, combined	28	Colorectal Surgery	138
44187	Laparoscopy, surgical; il	28	Colorectal Surgery	138
45119	Proctectomy, combined	28	Colorectal Surgery	136
45190	Destruction of rectal tum	28	Colorectal Surgery	134
44604	Suture of large intestine	28	Colorectal Surgery	130
44603	Suture of small intestine	28	Colorectal Surgery	125
44125	Enterectomy, resection	28	Colorectal Surgery	113
44640	Closure of intestinal cuta	28	Colorectal Surgery	113
44210	Laparoscopy, surgical; c	28	Colorectal Surgery	112
44208	Laparoscopy, surgical; c	28	Colorectal Surgery	108
46288	Closure of anal fistula w	28	Colorectal Surgery	106
44130	Enteroenterostomy, ana	28	Colorectal Surgery	104
44661	Closure of enterovesical	28	Colorectal Surgery	101
44202	Laparoscopy, surgical; e	28	Colorectal Surgery	97
57250	Posterior colporrhaphy,	28	Colorectal Surgery	97
44180	Laparoscopy, surgical, e	28	Colorectal Surgery	95
45111	Proctectomy; partial res	28	Colorectal Surgery	93
46262	Hemorrhoidectomy, inte	28	Colorectal Surgery	93
49587	Repair umbilical hernia,	28	Colorectal Surgery	93
44206	Laparoscopy, surgical; c	28	Colorectal Surgery	91
58940	Oophorectomy, partial o	28	Colorectal Surgery	87
49650	Laparoscopy, surgical; r	28	Colorectal Surgery	86
49900	Suture, secondary, of ab	28	Colorectal Surgery	86
13160	Secondary closure of su	28	Colorectal Surgery	80
44050	Reduction of volvulus, ir	28	Colorectal Surgery	78
57106	Vaginectomy, partial ren	28	Colorectal Surgery	78
44950	Appendectomy;	28	Colorectal Surgery	77
22900	Excision, abdominal wal	28	Colorectal Surgery	74
46753	Graft (Thiersch operatio	28	Colorectal Surgery	74
46257	Hemorrhoidectomy, inte	28	Colorectal Surgery	73

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57305	Closure of rectovaginal fistula	28	Colorectal Surgery	71
44340	Revision of colostomy; simple	28	Colorectal Surgery	69
43840	Gastrorrhaphy, suture of	28	Colorectal Surgery	68
57280	Colpopexy, abdominal approach	28	Colorectal Surgery	66
46285	Surgical treatment of anal fissure	28	Colorectal Surgery	65
57300	Closure of rectovaginal fistula	28	Colorectal Surgery	65
44960	Appendectomy; for ruptured appendix	28	Colorectal Surgery	64
49520	Repair recurrent inguinal hernia	28	Colorectal Surgery	63
58150	Total abdominal hysterectomy	28	Colorectal Surgery	63
19125	Excision of breast lesion	28	Colorectal Surgery	62
44300	Placement, enterostomy	28	Colorectal Surgery	62
45500	Proctoplasty; for stenosis	28	Colorectal Surgery	62
46045	Incision and drainage of abscess	28	Colorectal Surgery	61
44312	Revision of ileostomy; simple	28	Colorectal Surgery	59
45020	Incision and drainage of abscess	28	Colorectal Surgery	57
19120	Excision of cyst, fibroadenoma	28	Colorectal Surgery	56
44110	Excision of one or more skin tags	28	Colorectal Surgery	56
45160	Excision of rectal tumor	28	Colorectal Surgery	53
38100	Splenectomy; total (separate	28	Colorectal Surgery	52
44615	Intestinal stricturoplasty	28	Colorectal Surgery	51
11772	Excision of pilonidal cyst	28	Colorectal Surgery	50
45150	Division of stricture of rectum	28	Colorectal Surgery	49
50715	Ureterolysis, with or without	28	Colorectal Surgery	49
11470	Excision of skin and subcutaneous	28	Colorectal Surgery	48
38525	Biopsy or excision of lymph node	28	Colorectal Surgery	48
45000	Transrectal drainage of abscess	28	Colorectal Surgery	48
45113	Proctectomy, partial, with	28	Colorectal Surgery	48
44212	Laparoscopy, surgical; diagnostic	28	Colorectal Surgery	47
14040	Adjacent tissue transfer	28	Colorectal Surgery	45
49255	Omentectomy, epiploectomy	28	Colorectal Surgery	44
44800	Excision of Meckel's diverticulum	28	Colorectal Surgery	44
47605	Cholecystectomy; with cholecystitis	28	Colorectal Surgery	43
44211	Laparoscopy, surgical; diagnostic	28	Colorectal Surgery	42
44650	Closure of enteroenteric fistula	28	Colorectal Surgery	42
19307	Mastectomy, modified radical	28	Colorectal Surgery	41
27447	Arthroplasty, knee, condylar	28	Colorectal Surgery	38
49521	Repair recurrent inguinal hernia	28	Colorectal Surgery	36
11471	Excision of skin and subcutaneous	28	Colorectal Surgery	35
47610	Cholecystectomy with exploration	28	Colorectal Surgery	34
49553	Repair initial femoral hernia	28	Colorectal Surgery	34
11771	Excision of pilonidal cyst	28	Colorectal Surgery	33
33533	Coronary artery bypass, arterial	28	Colorectal Surgery	33
49402	Removal of peritoneal fluid	28	Colorectal Surgery	33
58925	Ovarian cystectomy, unilateral	28	Colorectal Surgery	33
49060	Drainage of retroperitoneal abscess	28	Colorectal Surgery	32
49525	Repair inguinal hernia, simple	28	Colorectal Surgery	32
43820	Gastrojejunostomy; with	28	Colorectal Surgery	31
49215	Excision of presacral or coccygeal	28	Colorectal Surgery	31
51550	Cystectomy, partial; simple	28	Colorectal Surgery	31
47120	Hepatectomy, resection	28	Colorectal Surgery	30
51860	Cystorrhaphy, suture of	28	Colorectal Surgery	30
14000	Adjacent tissue transfer	28	Colorectal Surgery	29

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19301	Mastectomy, partial (eg,	28	Colorectal Surgery	29
44025	Colotomy, for exploratio	28	Colorectal Surgery	29
58660	Laparoscopy, surgical; v	28	Colorectal Surgery	29
15734	Muscle, myocutaneous,	28	Colorectal Surgery	28
19302	Mastectomy, partial (eg,	28	Colorectal Surgery	28
38770	Pelvic lymphadenectom	28	Colorectal Surgery	28
55520	Excision of lesion of spe	28	Colorectal Surgery	27
58957	Resection (tumor debulk	28	Colorectal Surgery	26
35301	Thromboendarterectomy	28	Colorectal Surgery	26
44021	Enterotomy, small intest	28	Colorectal Surgery	26
57270	Repair of enterocele, ab	28	Colorectal Surgery	26
21930	Excision, tumor, soft tiss	28	Colorectal Surgery	25
51555	Cystectomy, partial; con	28	Colorectal Surgery	25
26990	Incision and drainage, p	28	Colorectal Surgery	24
33405	Replacement, aortic valv	28	Colorectal Surgery	24
38115	Repair of ruptured splee	28	Colorectal Surgery	24
46258	Hemorrhoidectomy, inte	28	Colorectal Surgery	24
49040	Drainage of subdiaphrag	28	Colorectal Surgery	23
44020	Enterotomy, small intest	28	Colorectal Surgery	22
44660	Closure of enterovesical	28	Colorectal Surgery	22
27130	Arthroplasty, acetabular	28	Colorectal Surgery	21
43611	Excision, local; malignar	28	Colorectal Surgery	21
57308	Closure of rectovaginal f	28	Colorectal Surgery	21
58700	Salpingectomy, complet	28	Colorectal Surgery	21
43632	Gastrectomy, partial, dis	28	Colorectal Surgery	20
32480	Removal of lung, other t	28	Colorectal Surgery	19
27880	Amputation, leg, through	28	Colorectal Surgery	19
45108	Anorectal myomectomy	28	Colorectal Surgery	19
45135	Excision of rectal procid	28	Colorectal Surgery	19
45136	Excision of ileoanal rese	28	Colorectal Surgery	19
46760	Sphincteroplasty, anal, f	28	Colorectal Surgery	19
46762	Sphincteroplasty, anal, f	28	Colorectal Surgery	19
14001	Adjacent tissue transfer	28	Colorectal Surgery	18
38760	Inguinofemoral lymphad	28	Colorectal Surgery	18
43633	Gastrectomy, partial, dis	28	Colorectal Surgery	18
44605	Suture of large intestine	28	Colorectal Surgery	18
49651	Laparoscopy, surgical; r	28	Colorectal Surgery	18
45820	Closure of rectourethral	28	Colorectal Surgery	17
19303	Mastectomy, simple, cor	28	Colorectal Surgery	16
21556	Excision tumor, soft tiss	28	Colorectal Surgery	16
39502	Repair, paraesophageal	28	Colorectal Surgery	16
43610	Excision, local; ulcer or l	28	Colorectal Surgery	16
45126	Pelvic exenteration for c	28	Colorectal Surgery	16
21555	Excision tumor, soft tiss	28	Colorectal Surgery	15
43832	Gastrostomy, open; with	28	Colorectal Surgery	15
44111	Excision of one or more	28	Colorectal Surgery	15
27301	Incision and drainage, d	28	Colorectal Surgery	14
27590	Amputation, thigh, throu	28	Colorectal Surgery	14
33208	Insertion or replacemen	28	Colorectal Surgery	14
45562	Exploration, repair, and	28	Colorectal Surgery	14
47380	Ablation, open, of one o	28	Colorectal Surgery	14
49010	Exploration, retroperiton	28	Colorectal Surgery	14

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49590	Repair spigelian hernia	28	Colorectal Surgery	14
60500	Parathyroidectomy or ex	28	Colorectal Surgery	14
15740	Flap; island pedicle	28	Colorectal Surgery	13
33426	Valvuloplasty, mitral valv	28	Colorectal Surgery	13
35840	Exploration for postoper	28	Colorectal Surgery	13
43501	Gastrotomy; with suture	28	Colorectal Surgery	13
43631	Gastrectomy, partial, dis	28	Colorectal Surgery	13
49421	Insertion of intraperitone	28	Colorectal Surgery	13
51590	Cystectomy, complete, v	28	Colorectal Surgery	13
57284	Paravaginal defect repa	28	Colorectal Surgery	13
14041	Adjacent tissue transfer	28	Colorectal Surgery	12
27080	Coccygectomy, primary	28	Colorectal Surgery	12
43280	Laparoscopy, surgical, e	28	Colorectal Surgery	12
43870	Closure of gastrotomy,	28	Colorectal Surgery	12
45800	Closure of rectovesical f	28	Colorectal Surgery	12
46210	Cryptectomy; single	28	Colorectal Surgery	12
57107	Vaginectomy, partial ren	28	Colorectal Surgery	12
27047	Excision, tumor, pelvis a	28	Colorectal Surgery	11
60220	Total thyroid lobectomy,	28	Colorectal Surgery	11
57295	Revision (including remc	28	Colorectal Surgery	11
15330	Acellular dermal allograf	28	Colorectal Surgery	10
33202	Insertion of epicardial el	28	Colorectal Surgery	10
49550	Repair initial femoral he	28	Colorectal Surgery	10
50820	Ureteroileal conduit (ilea	28	Colorectal Surgery	10
57200	Colporrhaphy, suture of	28	Colorectal Surgery	10
57265	Combined anteroposteri	28	Colorectal Surgery	10
58140	Myomectomy, excision o	28	Colorectal Surgery	10
14300	Adjacent tissue transfer	28	Colorectal Surgery	9
38740	Axillary lymphadenectom	28	Colorectal Surgery	9
43640	Vagotomy including pylc	28	Colorectal Surgery	9
46211	Cryptectomy; multiple (s	28	Colorectal Surgery	9
47010	Hepatotomy; for open dr	28	Colorectal Surgery	9
47130	Hepatectomy, resection	28	Colorectal Surgery	9
48100	Biopsy of pancreas, ope	28	Colorectal Surgery	9
48140	Pancreatectomy, distal s	28	Colorectal Surgery	9
57268	Repair of enterocele, va	28	Colorectal Surgery	9
58180	Supracervical abdomina	28	Colorectal Surgery	9
44157	Colectomy, total, abdom	28	Colorectal Surgery	8
44158	Colectomy, total, abdom	28	Colorectal Surgery	8
15830	Excision, excessive skin	28	Colorectal Surgery	8
11462	Excision of skin and sub	28	Colorectal Surgery	8
45114	Proctectomy, partial, wit	28	Colorectal Surgery	8
45563	Exploration, repair, and	28	Colorectal Surgery	8
48150	Pancreatectomy, proxim	28	Colorectal Surgery	8
55845	Prostatectomy, retropub	28	Colorectal Surgery	8
57010	Colpotomy; with drainag	28	Colorectal Surgery	8
46710	Repair of ileoanal pouch	28	Colorectal Surgery	7
46712	Repair of ileoanal pouch	28	Colorectal Surgery	7
19020	Mastotomy with explorat	28	Colorectal Surgery	7
21501	Incision and drainage, d	28	Colorectal Surgery	7
27603	Incision and drainage, le	28	Colorectal Surgery	7
32500	Removal of lung, other t	28	Colorectal Surgery	7

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37617	Ligation, major artery (e	28	Colorectal Surgery	7
44151	Colectomy, total, abdom	28	Colorectal Surgery	7
44156	Colectomy, total, abdom	28	Colorectal Surgery	7
45120	Proctectomy, complete (	28	Colorectal Surgery	7
49557	Repair recurrent femora	28	Colorectal Surgery	7
50230	Nephrectomy, including	28	Colorectal Surgery	7
51595	Cystectomy, complete, v	28	Colorectal Surgery	7
51865	Cystorrhaphy, suture of	28	Colorectal Surgery	7
57307	Closure of rectovaginal f	28	Colorectal Surgery	7
43770	Laparoscopy, surgical, g	28	Colorectal Surgery	6
15430	Acellular xenograft impla	28	Colorectal Surgery	6
15738	Muscle, myocutaneous,	28	Colorectal Surgery	6
27041	Biopsy, soft tissue of pe	28	Colorectal Surgery	6
27049	Radical resection of tum	28	Colorectal Surgery	6
27327	Excision, tumor, thigh or	28	Colorectal Surgery	6
27446	Arthroplasty, knee, cond	28	Colorectal Surgery	6
33514	Coronary artery bypass,	28	Colorectal Surgery	6
33534	Coronary artery bypass,	28	Colorectal Surgery	6
43621	Gastrectomy, total; with	28	Colorectal Surgery	6
43644	Laparoscopy, surgical, g	28	Colorectal Surgery	6
44010	Duodenotomy, for explo	28	Colorectal Surgery	6
44055	Correction of malrotatio	28	Colorectal Surgery	6
44186	Laparoscopy, surgical; je	28	Colorectal Surgery	6
47480	Cholecystotomy or chole	28	Colorectal Surgery	6
48105	Resection or debrideme	28	Colorectal Surgery	6
49572	Repair epigastric hernia	28	Colorectal Surgery	6
50240	Nephrectomy, partial	28	Colorectal Surgery	6
51597	Pelvic exenteration, com	28	Colorectal Surgery	6
57260	Combined anteroposteri	28	Colorectal Surgery	6
60650	Laparoscopy, surgical, v	28	Colorectal Surgery	6
15100	Split-thickness autograft	28	Colorectal Surgery	6
58958	Resection (tumor debulk	28	Colorectal Surgery	5
11450	Excision of skin and sub	28	Colorectal Surgery	5
22558	Arthrodesis, anterior inte	28	Colorectal Surgery	5
23076	Excision, soft tissue tum	28	Colorectal Surgery	5
24075	Excision, tumor, soft tiss	28	Colorectal Surgery	5
27889	Ankle disarticulation	28	Colorectal Surgery	5
33213	Insertion or replacement	28	Colorectal Surgery	5
33510	Coronary artery bypass,	28	Colorectal Surgery	5
39541	Repair, diaphragmatic h	28	Colorectal Surgery	5
43324	Esophagogastric fundop	28	Colorectal Surgery	5
43800	Pyloroplasty	28	Colorectal Surgery	5
43880	Closure of gastrocolic fis	28	Colorectal Surgery	5
45805	Closure of rectovesical f	28	Colorectal Surgery	5
47370	Laparoscopy, surgical, a	28	Colorectal Surgery	5
49419	Insertion of intraperitone	28	Colorectal Surgery	5
49570	Repair epigastric hernia	28	Colorectal Surgery	5
49904	Omental flap, extra-abdo	28	Colorectal Surgery	5
51530	Cystotomy; for excision	28	Colorectal Surgery	5
54520	Orchiectomy, simple (inc	28	Colorectal Surgery	5
57210	Colpoperineorrhaphy, su	28	Colorectal Surgery	5
57240	Anterior colporrhaphy, re	28	Colorectal Surgery	5

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57288	Sling operation for stres	28	Colorectal Surgery	5
58200	Total abdominal hystere	28	Colorectal Surgery	5
58240	Pelvic exenteration for g	28	Colorectal Surgery	5
58400	Uterine suspension, with	28	Colorectal Surgery	5
58662	Laparoscopy, surgical; v	28	Colorectal Surgery	5
60240	Thyroidectomy, total or c	28	Colorectal Surgery	5
15240	Full thickness graft, free	28	Colorectal Surgery	4
15920	Excision, coccygeal pres	28	Colorectal Surgery	4
27324	Biopsy, soft tissue of thi	28	Colorectal Surgery	4
35081	Direct repair of aneurysr	28	Colorectal Surgery	4
35820	Exploration for postoper	28	Colorectal Surgery	4
37765	Stab phlebectomy of var	28	Colorectal Surgery	4
38120	Laparoscopy, surgical, s	28	Colorectal Surgery	4
38745	Axillary lymphadenectom	28	Colorectal Surgery	4
43846	Gastric restrictive proce	28	Colorectal Surgery	4
44322	Colostomy or skin level	28	Colorectal Surgery	4
44850	Suture of mesentery (se	28	Colorectal Surgery	4
45825	Closure of rectourethral	28	Colorectal Surgery	4
47350	Management of liver he	28	Colorectal Surgery	4
47612	Cholecystectomy with ex	28	Colorectal Surgery	4
47760	Anastomosis, of extrahe	28	Colorectal Surgery	4
48000	Placement of drains, pe	28	Colorectal Surgery	4
48510	External drainage, pseu	28	Colorectal Surgery	4
48547	Duodenal exclusion with	28	Colorectal Surgery	4
50760	Ureteroureterostomy	28	Colorectal Surgery	4
50815	Ureterocolon conduit, in	28	Colorectal Surgery	4
55840	Prostatectomy, retropub	28	Colorectal Surgery	4
57282	Colpopexy, vaginal; extr	28	Colorectal Surgery	4
58900	Biopsy of ovary, unilater	28	Colorectal Surgery	4
58950	Resection (initial) of ova	28	Colorectal Surgery	4
58552	Laparoscopy, surgical, v	28	Colorectal Surgery	4
33254	Operative tissue ablatio	28	Colorectal Surgery	4
33256	Operative tissue ablatio	28	Colorectal Surgery	3
11451	Excision of skin and sub	28	Colorectal Surgery	3
15300	Allograft skin for tempor	28	Colorectal Surgery	3
15931	Excision, sacral pressur	28	Colorectal Surgery	3
15936	Excision, sacral pressur	28	Colorectal Surgery	3
15937	Excision, sacral pressur	28	Colorectal Surgery	3
19260	Excision of chest wall tu	28	Colorectal Surgery	3
19304	Mastectomy, subcutane	28	Colorectal Surgery	3
24076	Excision, tumor, soft tiss	28	Colorectal Surgery	3
25075	Excision, tumor, soft tiss	28	Colorectal Surgery	3
27048	Excision, tumor, pelvis a	28	Colorectal Surgery	3
28003	Incision and drainage be	28	Colorectal Surgery	3
28805	Amputation, foot; trans	28	Colorectal Surgery	3
28810	Amputation, metatarsal,	28	Colorectal Surgery	3
31610	Tracheostomy, fenestra	28	Colorectal Surgery	3
31613	Tracheostoma revision;	28	Colorectal Surgery	3
33206	Insertion or replacement	28	Colorectal Surgery	3
33416	Ventriculomyotomy (-my	28	Colorectal Surgery	3
33430	Replacement, mitral valv	28	Colorectal Surgery	3
33464	Valvuloplasty, tricuspid v	28	Colorectal Surgery	3

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33511	Coronary artery bypass,	28	Colorectal Surgery	3
33512	Coronary artery bypass,	28	Colorectal Surgery	3
33513	Coronary artery bypass,	28	Colorectal Surgery	3
33860	Ascending aorta graft, w	28	Colorectal Surgery	3
34151	Embolectomy or thromb	28	Colorectal Surgery	3
34201	Embolectomy or thromb	28	Colorectal Surgery	3
35221	Repair blood vessel, dire	28	Colorectal Surgery	3
35226	Repair blood vessel, dire	28	Colorectal Surgery	3
35371	Thromboendarterectomy	28	Colorectal Surgery	3
35566	Bypass graft, with vein; f	28	Colorectal Surgery	3
35656	Bypass graft, with other	28	Colorectal Surgery	3
36830	Creation of arteriovenou	28	Colorectal Surgery	3
38520	Biopsy or excision of lym	28	Colorectal Surgery	3
38564	Limited lymphadenector	28	Colorectal Surgery	3
38765	Inguinofemoral lymphad	28	Colorectal Surgery	3
43108	Total or near total esoph	28	Colorectal Surgery	3
43500	Gastrotomy; with explor	28	Colorectal Surgery	3
43653	Laparoscopy, surgical; c	28	Colorectal Surgery	3
43860	Revision of gastrojejuna	28	Colorectal Surgery	3
44900	Incision and drainage of	28	Colorectal Surgery	3
45121	Proctectomy, complete (	28	Colorectal Surgery	3
47300	Marsupialization of cyst	28	Colorectal Surgery	3
47420	Choledochotomy or cho	28	Colorectal Surgery	3
47564	Laparoscopy, surgical; c	28	Colorectal Surgery	3
50810	Ureterosigmoidostomy, i	28	Colorectal Surgery	3
51040	Cystostomy, cystotomy v	28	Colorectal Surgery	3
57110	Vaginectomy, complete	28	Colorectal Surgery	3
57283	Colpopexy, vaginal; intra	28	Colorectal Surgery	3
58210	Radical abdominal hyste	28	Colorectal Surgery	3
58262	Vaginal hysterectomy, fo	28	Colorectal Surgery	3
58740	Lysis of adhesions (salp	28	Colorectal Surgery	3
58825	Transposition, ovary(s)	28	Colorectal Surgery	3
60210	Partial thyroid lobectomy	28	Colorectal Surgery	3
61793	Stereotactic radiosurger	28	Colorectal Surgery	3
62223	Creation of shunt; ventri	28	Colorectal Surgery	3
57296	Revision (including remo	28	Colorectal Surgery	2
11463	Excision of skin and sub	28	Colorectal Surgery	2
14020	Adjacent tissue transfer	28	Colorectal Surgery	2
15200	Full thickness graft, free	28	Colorectal Surgery	2
15574	Formation of direct or tu	28	Colorectal Surgery	2
15934	Excision, sacral pressur	28	Colorectal Surgery	2
15950	Excision, trochanteric pr	28	Colorectal Surgery	2
17106	Destruction of cutaneous	28	Colorectal Surgery	2
20680	Removal of implant; dee	28	Colorectal Surgery	2
21935	Radical resection of tum	28	Colorectal Surgery	2
25028	Incision and drainage, fo	28	Colorectal Surgery	2
26992	Incision, bone cortex, pe	28	Colorectal Surgery	2
27087	Removal of foreign body	28	Colorectal Surgery	2
27132	Conversion of previous i	28	Colorectal Surgery	2
27486	Revision of total knee ar	28	Colorectal Surgery	2
28825	Amputation, toe; interph	28	Colorectal Surgery	2
32110	Thoracotomy, major; wit	28	Colorectal Surgery	2

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32440	Removal of lung, total p	28	Colorectal Surgery	2
32657	Thoracoscopy, surgical;	28	Colorectal Surgery	2
32663	Thoracoscopy, surgical;	28	Colorectal Surgery	2
33025	Creation of pericardial w	28	Colorectal Surgery	2
33427	Valvuloplasty, mitral valv	28	Colorectal Surgery	2
33641	Repair atrial septal defe	28	Colorectal Surgery	2
35142	Direct repair of aneurysr	28	Colorectal Surgery	2
35190	Repair, acquired or trau	28	Colorectal Surgery	2
36260	Insertion of implantable	28	Colorectal Surgery	2
36819	Arteriovenous anastomc	28	Colorectal Surgery	2
36831	Thrombectomy, open, a	28	Colorectal Surgery	2
36833	Revision, open, arteriove	28	Colorectal Surgery	2
37700	Ligation and division of l	28	Colorectal Surgery	2
38542	Dissection, deep jugular	28	Colorectal Surgery	2
39501	Repair, laceration of dia	28	Colorectal Surgery	2
39560	Resection, diaphragm; v	28	Colorectal Surgery	2
41120	Glossectomy; less than	28	Colorectal Surgery	2
43605	Biopsy of stomach; by la	28	Colorectal Surgery	2
43848	Revision, open, of gastri	28	Colorectal Surgery	2
44126	Enterectomy, resection	28	Colorectal Surgery	2
47125	Hepatectomy, resection	28	Colorectal Surgery	2
47361	Management of liver he	28	Colorectal Surgery	2
47720	Cholecystoenterostomy;	28	Colorectal Surgery	2
47721	Cholecystoenterostomy;	28	Colorectal Surgery	2
49250	Umbilectomy, omphalec	28	Colorectal Surgery	2
49425	Insertion of peritoneal-ve	28	Colorectal Surgery	2
49540	Repair lumbar hernia	28	Colorectal Surgery	2
49582	Repair umbilical hernia,	28	Colorectal Surgery	2
50220	Nephrectomy, including	28	Colorectal Surgery	2
50545	Laparoscopy, surgical; r	28	Colorectal Surgery	2
50728	Revision of urinary-cuta	28	Colorectal Surgery	2
50825	Continent diversion, incl	28	Colorectal Surgery	2
51045	Cystotomy, with insertio	28	Colorectal Surgery	2
51050	Cystolithotomy, cystoton	28	Colorectal Surgery	2
51565	Cystectomy, partial, with	28	Colorectal Surgery	2
51880	Closure of cystostomy (s	28	Colorectal Surgery	2
52500	Transurethral resection	28	Colorectal Surgery	2
53415	Urethroplasty, transpubi	28	Colorectal Surgery	2
55801	Prostatectomy, perineal,	28	Colorectal Surgery	2
57111	Vaginectomy, complete	28	Colorectal Surgery	2
57120	Colpocleisis (Le Fort typ	28	Colorectal Surgery	2
57556	Excision of cervical stum	28	Colorectal Surgery	2
58673	Laparoscopy, surgical; v	28	Colorectal Surgery	2
58943	Oophorectomy, partial o	28	Colorectal Surgery	2
58952	Resection (initial) of ova	28	Colorectal Surgery	2
58953	Bilateral salpingo-oopho	28	Colorectal Surgery	2
62230	Replacement or revisior	28	Colorectal Surgery	2
15400	Xenograft, skin (dermal)	28	Colorectal Surgery	2
43886	Gastric restrictive proce	28	Colorectal Surgery	2
43887	Gastric restrictive proce	28	Colorectal Surgery	2
43888	Gastric restrictive proce	28	Colorectal Surgery	2
43845	Gastric restrictive proce	28	Colorectal Surgery	1

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33255	Operative tissue ablation	28	Colorectal Surgery	1
43774	Laparoscopy, surgical, g	28	Colorectal Surgery	1
11960	Insertion of tissue expan	28	Colorectal Surgery	1
15170	Acellular dermal replace	28	Colorectal Surgery	1
15570	Formation of direct or tu	28	Colorectal Surgery	1
15835	Excision, excessive skin	28	Colorectal Surgery	1
15845	Graft for facial nerve par	28	Colorectal Surgery	1
15956	Excision, trochanteric pr	28	Colorectal Surgery	1
16035	Escharotomy; initial incis	28	Colorectal Surgery	1
19272	Excision of chest wall tu	28	Colorectal Surgery	1
19318	Reduction mammoplasty	28	Colorectal Surgery	1
19357	Breast reconstruction, in	28	Colorectal Surgery	1
20922	Fascia lata graft; by incis	28	Colorectal Surgery	1
21325	Open treatment of nasal	28	Colorectal Surgery	1
21502	Incision and drainage, d	28	Colorectal Surgery	1
21557	Radical resection of tum	28	Colorectal Surgery	1
21620	Ostectomy of sternum, p	28	Colorectal Surgery	1
23066	Biopsy, soft tissue of sh	28	Colorectal Surgery	1
24066	Biopsy, soft tissue of up	28	Colorectal Surgery	1
24077	Radical resection of tum	28	Colorectal Surgery	1
24105	Excision, olecranon bursa	28	Colorectal Surgery	1
24470	Hemiepiphyseal arrest (c	28	Colorectal Surgery	1
24545	Open treatment of hume	28	Colorectal Surgery	1
25076	Excision, tumor, soft tiss	28	Colorectal Surgery	1
25077	Radical resection of tum	28	Colorectal Surgery	1
25111	Excision of ganglion, wri	28	Colorectal Surgery	1
26160	Excision of lesion of ten	28	Colorectal Surgery	1
26910	Amputation, metacarpal	28	Colorectal Surgery	1
26991	Incision and drainage, p	28	Colorectal Surgery	1
27025	Fasciotomy, hip or thigh	28	Colorectal Surgery	1
27134	Revision of total hip arth	28	Colorectal Surgery	1
27138	Revision of total hip arth	28	Colorectal Surgery	1
27236	Open treatment of femo	28	Colorectal Surgery	1
27305	Fasciotomy, iliotibial (ter	28	Colorectal Surgery	1
27328	Excision, tumor, thigh or	28	Colorectal Surgery	1
27329	Radical resection of tum	28	Colorectal Surgery	1
27335	Arthrotomy, with synove	28	Colorectal Surgery	1
27372	Removal of foreign body	28	Colorectal Surgery	1
27438	Arthroplasty, patella; wit	28	Colorectal Surgery	1
27487	Revision of total knee ar	28	Colorectal Surgery	1
27596	Amputation, thigh, throu	28	Colorectal Surgery	1
27615	Radical resection of tum	28	Colorectal Surgery	1
27630	Excision of lesion of ten	28	Colorectal Surgery	1
27814	Open treatment of bima	28	Colorectal Surgery	1
27884	Amputation, leg, through	28	Colorectal Surgery	1
27886	Amputation, leg, through	28	Colorectal Surgery	1
28005	Incision, bone cortex (eg	28	Colorectal Surgery	1
31800	Suture of tracheal woun	28	Colorectal Surgery	1
31830	Revision of tracheostom	28	Colorectal Surgery	1
32141	Thoracotomy, major; wit	28	Colorectal Surgery	1
32160	Thoracotomy, major; wit	28	Colorectal Surgery	1
32220	Decortication, pulmonar	28	Colorectal Surgery	1

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32320	Decortication and pariet	28	Colorectal Surgery	1
32482	Removal of lung, other t	28	Colorectal Surgery	1
32650	Thoracoscopy, surgical;	28	Colorectal Surgery	1
32652	Thoracoscopy, surgical;	28	Colorectal Surgery	1
33030	Pericardiectomy, subtot	28	Colorectal Surgery	1
33050	Excision of pericardial c	28	Colorectal Surgery	1
33120	Excision of intracardiac	28	Colorectal Surgery	1
33207	Insertion or replacement	28	Colorectal Surgery	1
33215	Repositioning of previou	28	Colorectal Surgery	1
33216	Insertion of a transvenou	28	Colorectal Surgery	1
33236	Removal of permanent c	28	Colorectal Surgery	1
33241	Subcutaneous removal o	28	Colorectal Surgery	1
33243	Removal of single or du	28	Colorectal Surgery	1
33411	Replacement, aortic valv	28	Colorectal Surgery	1
33516	Coronary artery bypass,	28	Colorectal Surgery	1
33681	Closure of single ventric	28	Colorectal Surgery	1
33820	Repair of patent ductus	28	Colorectal Surgery	1
34802	Endovascular repair of i	28	Colorectal Surgery	1
35082	Direct repair of aneurysr	28	Colorectal Surgery	1
35103	Direct repair of aneurysr	28	Colorectal Surgery	1
35112	Direct repair of aneurysr	28	Colorectal Surgery	1
35251	Repair blood vessel with	28	Colorectal Surgery	1
35281	Repair blood vessel with	28	Colorectal Surgery	1
35286	Repair blood vessel with	28	Colorectal Surgery	1
35351	Thromboendarterectomy	28	Colorectal Surgery	1
35372	Thromboendarterectomy	28	Colorectal Surgery	1
35501	Bypass graft, with vein; c	28	Colorectal Surgery	1
35556	Bypass graft, with vein; t	28	Colorectal Surgery	1
35631	Bypass graft, with other	28	Colorectal Surgery	1
35646	Bypass graft, with other	28	Colorectal Surgery	1
35654	Bypass graft, with other	28	Colorectal Surgery	1
35907	Excision of infected graf	28	Colorectal Surgery	1
36262	Removal of implanted in	28	Colorectal Surgery	1
36821	Arteriovenous anastomc	28	Colorectal Surgery	1
37607	Ligation or banding of ar	28	Colorectal Surgery	1
37616	Ligation, major artery (e	28	Colorectal Surgery	1
37660	Ligation of common iliac	28	Colorectal Surgery	1
37718	Ligation, division, and st	28	Colorectal Surgery	1
37722	Ligation, division, and st	28	Colorectal Surgery	1
37766	Stab phlebectomy of var	28	Colorectal Surgery	1
37780	Ligation and division of s	28	Colorectal Surgery	1
38308	Lymphangiomy or othe	28	Colorectal Surgery	1
38562	Limited lymphadenector	28	Colorectal Surgery	1
39540	Repair, diaphragmatic h	28	Colorectal Surgery	1
39561	Resection, diaphragm; v	28	Colorectal Surgery	1
42205	Palatoplasty for cleft pal	28	Colorectal Surgery	1
43117	Partial esophagectomy,	28	Colorectal Surgery	1
43123	Partial esophagectomy,	28	Colorectal Surgery	1
43320	Esophagogastrostomy (c	28	Colorectal Surgery	1
43325	Esophagogastric fundop	28	Colorectal Surgery	1
43326	Esophagogastric fundop	28	Colorectal Surgery	1
43340	Esophagojejunostomy (v	28	Colorectal Surgery	1

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43361	Gastrointestinal reconst	28	Colorectal Surgery	1
43410	Suture of esophageal w	28	Colorectal Surgery	1
43415	Suture of esophageal w	28	Colorectal Surgery	1
43496	Free jejunum transfer w	28	Colorectal Surgery	1
43520	Pyloromyotomy, cutting	28	Colorectal Surgery	1
43622	Gastrectomy, total; with	28	Colorectal Surgery	1
43645	Laparoscopy, surgical, g	28	Colorectal Surgery	1
43825	Gastrojejunostomy; with	28	Colorectal Surgery	1
44316	Continent ileostomy (Ko	28	Colorectal Surgery	1
44680	Intestinal plication (sepa	28	Colorectal Surgery	1
44820	Excision of lesion of me	28	Colorectal Surgery	1
46740	Repair of high imperfora	28	Colorectal Surgery	1
46938	Cryosurgery of rectal tur	28	Colorectal Surgery	1
47015	Laparotomy, with aspira	28	Colorectal Surgery	1
47122	Hepatectomy, resection	28	Colorectal Surgery	1
47362	Management of liver he	28	Colorectal Surgery	1
47740	Cholecystoenterostomy;	28	Colorectal Surgery	1
47780	Anastomosis, Roux-en-Y	28	Colorectal Surgery	1
47801	Placement of choledoch	28	Colorectal Surgery	1
47900	Suture of extrahepatic b	28	Colorectal Surgery	1
48120	Excision of lesion of pan	28	Colorectal Surgery	1
48152	Pancreatectomy, proxim	28	Colorectal Surgery	1
48155	Pancreatectomy, total	28	Colorectal Surgery	1
48500	Marsupialization of panc	28	Colorectal Surgery	1
48520	Internal anastomosis of	28	Colorectal Surgery	1
49062	Drainage of extraperiton	28	Colorectal Surgery	1
49220	Staging laparotomy for H	28	Colorectal Surgery	1
49501	Repair initial inguinal he	28	Colorectal Surgery	1
49906	Free omental flap with n	28	Colorectal Surgery	1
50234	Nephrectomy with total u	28	Colorectal Surgery	1
50400	Pyeloplasty (Foley Y-pye	28	Colorectal Surgery	1
50405	Pyeloplasty (Foley Y-pye	28	Colorectal Surgery	1
50548	Laparoscopy, surgical; r	28	Colorectal Surgery	1
50650	Ureterectomy, with blade	28	Colorectal Surgery	1
50800	Ureteroenterostomy, dir	28	Colorectal Surgery	1
50900	Ureterorrhaphy, suture c	28	Colorectal Surgery	1
50940	Deligation of ureter	28	Colorectal Surgery	1
51500	Excision of urachal cyst	28	Colorectal Surgery	1
51570	Cystectomy, complete; (	28	Colorectal Surgery	1
51575	Cystectomy, complete; v	28	Colorectal Surgery	1
51596	Cystectomy, complete, v	28	Colorectal Surgery	1
51800	Cystoplasty or cystouret	28	Colorectal Surgery	1
51900	Closure of vesicovagina	28	Colorectal Surgery	1
51960	Enterocystoplasty, includ	28	Colorectal Surgery	1
55040	Excision of hydrocele; u	28	Colorectal Surgery	1
55540	Excision of varicocele or	28	Colorectal Surgery	1
55725	Prostatotomy, external c	28	Colorectal Surgery	1
56620	Vulvectomy simple; part	28	Colorectal Surgery	1
57109	Vaginectomy, partial ren	28	Colorectal Surgery	1
57220	Plastic operation on ure	28	Colorectal Surgery	1
57291	Construction of artificial	28	Colorectal Surgery	1
57311	Closure of urethrovagina	28	Colorectal Surgery	1

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57425	Laparoscopy, surgical, c	28	Colorectal Surgery	1	
57550	Excision of cervical stum	28	Colorectal Surgery	1	
58146	Myomectomy, excision c	28	Colorectal Surgery	1	
58270	Vaginal hysterectomy, fo	28	Colorectal Surgery	1	
58275	Vaginal hysterectomy, w	28	Colorectal Surgery	1	
58545	Laparoscopy, surgical, r	28	Colorectal Surgery	1	
58805	Drainage of ovarian cyst	28	Colorectal Surgery	1	
58920	Wedge resection or bise	28	Colorectal Surgery	1	
60225	Total thyroid lobectomy,	28	Colorectal Surgery	1	
60254	Thyroidectomy, total or s	28	Colorectal Surgery	1	
60260	Thyroidectomy, removal	28	Colorectal Surgery	1	
60271	Thyroidectomy, including	28	Colorectal Surgery	1	
60540	Adrenalectomy, partial c	28	Colorectal Surgery	1	
61312	Craniectomy or cranioto	28	Colorectal Surgery	1	
61315	Craniectomy or cranioto	28	Colorectal Surgery	1	
61697	Surgery of complex intra	28	Colorectal Surgery	1	
62141	Cranioplasty for skull de	28	Colorectal Surgery	1	
62256	Removal of complete ce	28	Colorectal Surgery	1	
62360	Implantation or replacen	28	Colorectal Surgery	1	
63740	Creation of shunt, lumba	28	Colorectal Surgery	1	
64774	Excision of neuroma; cu	28	Colorectal Surgery	1	
66170	Fistulization of sclera fo	28	Colorectal Surgery	1	
66984	Extracapsular cataract r	28	Colorectal Surgery	1	
50250	Ablation, open, one or m	28	Colorectal Surgery	1	
15120	Split-thickness autograft	28	Colorectal Surgery	1	
38780	Retroperitoneal transab	28	Colorectal Surgery	1	
32504	Resection of apical lung	28	Colorectal Surgery	1	
35883	Revision, femoral anaste	28	Colorectal Surgery	1	
35884	Revision, femoral anaste	28	Colorectal Surgery	1	
43771	Laparoscopy, surgical, c	28	Colorectal Surgery	1	
43772	Laparoscopy, surgical, c	28	Colorectal Surgery	1	
43773	Laparoscopy, surgical, c	28	Colorectal Surgery	1	
15420	Xenograft skin (dermal),	28	Colorectal Surgery	1	
35637	Bypass graft, with other	28	Colorectal Surgery	1	
35638	Bypass graft, with other	28	Colorectal Surgery	1	
33265	Endoscopy, surgical; op	28	Colorectal Surgery	0	
33266	Endoscopy, surgical; op	28	Colorectal Surgery	0	
32503	Resection of apical lung	28	Colorectal Surgery	0	
58542	Laparoscopy, surgical, s	28	Colorectal Surgery	0	
15115	Epidermal autograft, fac	28	Colorectal Surgery	0	
15110	Epidermal autograft, tru	28	Colorectal Surgery	0	
15130	Dermal autograft, trunk,	28	Colorectal Surgery	0	
15150	Tissue cultured epiderm	28	Colorectal Surgery	0	
15135	Dermal autograft, face, s	28	Colorectal Surgery	0	
15155	Tissue cultured epiderm	28	Colorectal Surgery	0	
15175	Acellular dermal replace	28	Colorectal Surgery	0	
64910	Nerve repair; with synthe	28	Colorectal Surgery	0	
64911	Nerve repair; with autog	28	Colorectal Surgery	0	64,189
47562	Laparoscopy, surgical; c	02	General Surgery	122,800	
49505	Repair initial inguinal he	02	General Surgery	83,344	
47563	Laparoscopy, surgical; c	02	General Surgery	66,834	
44140	Colectomy, partial; with	02	General Surgery	38,544	

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49560	Repair initial incisional o	02	General Surgery	37,611
19125	Excision of breast lesior	02	General Surgery	36,963
19120	Excision of cyst, fibroad	02	General Surgery	30,800
38525	Biopsy or excision of lym	02	General Surgery	30,606
35301	Thromboendarterectomy	02	General Surgery	30,085
19301	Mastectomy, partial (eg,	02	General Surgery	29,679
44120	Enterectomy, resection o	02	General Surgery	29,342
47600	Cholecystectomy;	02	General Surgery	25,242
49585	Repair umbilical hernia,	02	General Surgery	21,979
44160	Colectomy, partial, with	02	General Surgery	21,788
36821	Arteriovenous anastomc	02	General Surgery	18,998
19307	Mastectomy, modified ra	02	General Surgery	17,286
44005	Enterolysis (freeing of in	02	General Surgery	16,074
36830	Creation of arteriovenou	02	General Surgery	15,804
44143	Colectomy, partial; with	02	General Surgery	15,702
19303	Mastectomy, simple, col	02	General Surgery	15,331
49650	Laparoscopy, surgical; r	02	General Surgery	15,042
49561	Repair initial incisional o	02	General Surgery	14,759
44145	Colectomy, partial; with	02	General Surgery	13,616
44970	Laparoscopy, surgical, a	02	General Surgery	11,299
49507	Repair initial inguinal he	02	General Surgery	11,205
60500	Parathyroidectomy or ex	02	General Surgery	10,569
49520	Repair recurrent inguina	02	General Surgery	10,391
19302	Mastectomy, partial (eg,	02	General Surgery	10,299
36831	Thrombectomy, open, a	02	General Surgery	9,691
27590	Amputation, thigh, throu	02	General Surgery	9,512
44204	Laparoscopy, surgical; c	02	General Surgery	9,432
50360	Renal allotransplantatio	02	General Surgery	9,164
49000	Exploratory laparotomy,	02	General Surgery	9,123
49587	Repair umbilical hernia,	02	General Surgery	9,065
49565	Repair recurrent incisor	02	General Surgery	8,844
37620	Interruption, partial or c	02	General Surgery	8,345
43280	Laparoscopy, surgical, e	02	General Surgery	8,331
43830	Gastrostomy, open; with	02	General Surgery	8,199
33208	Insertion or replacemen	02	General Surgery	7,473
36832	Revision, open, arteriove	02	General Surgery	7,217
27880	Amputation, leg, through	02	General Surgery	7,200
44205	Laparoscopy, surgical; c	02	General Surgery	6,950
47605	Cholecystectomy; with c	02	General Surgery	6,852
21930	Excision, tumor, soft tiss	02	General Surgery	6,678
33533	Coronary artery bypass,	02	General Surgery	6,201
36833	Revision, open, arteriove	02	General Surgery	6,016
28810	Amputation, metatarsal,	02	General Surgery	5,986
49421	Insertion of intraperitone	02	General Surgery	5,926
35656	Bypass graft, with other	02	General Surgery	5,876
15100	Split-thickness autograft	02	General Surgery	5,807
36819	Arteriovenous anastomc	02	General Surgery	5,796
46260	Hemorrhoidectomy, inte	02	General Surgery	5,725
47100	Biopsy of liver, wedge	02	General Surgery	5,657
44950	Appendectomy;	02	General Surgery	5,333
44320	Colostomy or skin level	02	General Surgery	5,330
21555	Excision tumor, soft tiss	02	General Surgery	5,292

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60220	Total thyroid lobectomy,	02	General Surgery	5,241
46934	Destruction of hemorrhoid	02	General Surgery	5,219
37607	Ligation or banding of ar	02	General Surgery	5,158
60240	Thyroidectomy, total or c	02	General Surgery	4,987
43840	Gastrorrhaphy, suture or	02	General Surgery	4,965
49566	Repair recurrent incision	02	General Surgery	4,964
44626	Closure of enterostomy,	02	General Surgery	4,887
15430	Acellular xenograft impla	02	General Surgery	4,816
44150	Colectomy, total, abdom	02	General Surgery	4,815
49002	Reopening of recent lap	02	General Surgery	4,660
44180	Laparoscopy, surgical, e	02	General Surgery	4,586
49020	Drainage of peritoneal a	02	General Surgery	4,532
27447	Arthroplasty, knee, cond	02	General Surgery	4,522
44602	Suture of small intestine	02	General Surgery	4,504
28820	Amputation, toe; metata	02	General Surgery	4,380
44960	Appendectomy; for ruptu	02	General Surgery	4,328
35903	Excision of infected graf	02	General Surgery	4,287
45170	Excision of rectal tumor,	02	General Surgery	4,261
34802	Endovascular repair of il	02	General Surgery	4,230
46040	Incision and drainage of	02	General Surgery	4,160
44207	Laparoscopy, surgical; c	02	General Surgery	4,089
43644	Laparoscopy, surgical, c	02	General Surgery	3,976
38100	Splenectomy; total (sepa	02	General Surgery	3,553
37765	Stab phlebectomy of var	02	General Surgery	3,344
34825	Placement of proximal c	02	General Surgery	3,259
32480	Removal of lung, other t	02	General Surgery	3,258
46947	Hemorrhoidopexy (eg, fo	02	General Surgery	3,249
36825	Creation of arteriovenou	02	General Surgery	3,183
47610	Cholecystectomy with ex	02	General Surgery	3,183
44141	Colectomy, partial; with	02	General Surgery	3,182
49553	Repair initial femoral he	02	General Surgery	3,141
35371	Thromboendarterectomy	02	General Surgery	3,109
46255	Hemorrhoidectomy, inte	02	General Surgery	3,089
38745	Axillary lymphadenectom	02	General Surgery	2,977
36818	Arteriovenous anastomc	02	General Surgery	2,955
44144	Colectomy, partial; with	02	General Surgery	2,947
13160	Secondary closure of su	02	General Surgery	2,915
21556	Excision tumor, soft tiss	02	General Surgery	2,856
49521	Repair recurrent inguina	02	General Surgery	2,834
64721	Neuroplasty and/or trans	02	General Surgery	2,795
34201	Embolectomy or thromb	02	General Surgery	2,756
33207	Insertion or replacement	02	General Surgery	2,705
44310	Ileostomy or jejunostom	02	General Surgery	2,704
43632	Gastrectomy, partial, dis	02	General Surgery	2,681
44050	Reduction of volvulus, ir	02	General Surgery	2,629
33213	Insertion or replacement	02	General Surgery	2,607
44300	Placement, enterostomy	02	General Surgery	2,593
43820	Gastrojejunostomy; with	02	General Surgery	2,513
49651	Laparoscopy, surgical; r	02	General Surgery	2,466
22900	Excision, abdominal wal	02	General Surgery	2,456
14040	Adjacent tissue transfer	02	General Surgery	2,446
39502	Repair, paraesophageal	02	General Surgery	2,403

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49525	Repair inguinal hernia, s	02	General Surgery	2,372
55520	Excision of lesion of spe	02	General Surgery	2,318
44620	Closure of enterostomy,	02	General Surgery	2,280
35556	Bypass graft, with vein; t	02	General Surgery	2,278
36870	Thrombectomy, percuta	02	General Surgery	2,274
35081	Direct repair of aneurysr	02	General Surgery	2,262
24075	Excision, tumor, soft tiss	02	General Surgery	2,133
33233	Removal of permanent p	02	General Surgery	2,110
38740	Axillary lymphadenectom	02	General Surgery	2,090
37766	Stab phlebectomy of var	02	General Surgery	2,082
33405	Replacement, aortic valv	02	General Surgery	2,068
44604	Suture of large intestine	02	General Surgery	2,031
47564	Laparoscopy, surgical; c	02	General Surgery	1,929
48150	Pancreatectomy, proxim	02	General Surgery	1,893
27130	Arthroplasty, acetabular	02	General Surgery	1,886
47135	Liver allotransplantation	02	General Surgery	1,866
28805	Amputation, foot; transr	02	General Surgery	1,846
58720	Salpingo-oophorectomy	02	General Surgery	1,840
44146	Colectomy, partial; with	02	General Surgery	1,815
15734	Muscle, myocutaneous,	02	General Surgery	1,786
47120	Hepatectomy, resection	02	General Surgery	1,780
35661	Bypass graft, with other	02	General Surgery	1,777
49550	Repair initial femoral he	02	General Surgery	1,761
43770	Laparoscopy, surgical, g	02	General Surgery	1,744
48140	Pancreatectomy, distal s	02	General Surgery	1,723
44227	Laparoscopy, surgical, c	02	General Surgery	1,719
14000	Adjacent tissue transfer	02	General Surgery	1,708
35566	Bypass graft, with vein; t	02	General Surgery	1,700
49900	Suture, secondary, of ab	02	General Surgery	1,690
58150	Total abdominal hystere	02	General Surgery	1,678
44603	Suture of small intestine	02	General Surgery	1,653
27327	Excision, tumor, thigh or	02	General Surgery	1,648
44188	Laparoscopy, surgical, c	02	General Surgery	1,642
22558	Arthrodesis, anterior inte	02	General Surgery	1,635
14020	Adjacent tissue transfer	02	General Surgery	1,626
44202	Laparoscopy, surgical; e	02	General Surgery	1,624
45110	Proctectomy; complete,	02	General Surgery	1,618
35372	Thromboendarterectomy	02	General Surgery	1,611
43324	Esophagogastric fundop	02	General Surgery	1,611
44130	Enteroenterostomy, ana	02	General Surgery	1,595
43631	Gastrectomy, partial, dis	02	General Surgery	1,592
32657	Thoracoscopy, surgical;	02	General Surgery	1,587
27301	Incision and drainage, d	02	General Surgery	1,581
25075	Excision, tumor, soft tiss	02	General Surgery	1,578
44346	Revision of colostomy; v	02	General Surgery	1,568
43633	Gastrectomy, partial, dis	02	General Surgery	1,566
14060	Adjacent tissue transfer	02	General Surgery	1,556
44625	Closure of enterostomy,	02	General Surgery	1,551
35102	Direct repair of aneurysr	02	General Surgery	1,475
36820	Arteriovenous anastomc	02	General Surgery	1,450
32650	Thoracoscopy, surgical;	02	General Surgery	1,432
37785	Ligation, division, and/or	02	General Surgery	1,429

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46250	Hemorrhoidectomy, exte	02	General Surgery	1,424
50547	Laparoscopy, surgical; c	02	General Surgery	1,372
27603	Incision and drainage, le	02	General Surgery	1,360
33212	Insertion or replacement	02	General Surgery	1,351
14001	Adjacent tissue transfer	02	General Surgery	1,344
32500	Removal of lung, other t	02	General Surgery	1,326
44110	Excision of one or more	02	General Surgery	1,322
19020	Mastotomy with explorat	02	General Surgery	1,320
38120	Laparoscopy, surgical, s	02	General Surgery	1,301
35646	Bypass graft, with other	02	General Surgery	1,300
19300	Mastectomy for gynecor	02	General Surgery	1,286
28825	Amputation, toe; interph	02	General Surgery	1,285
14300	Adjacent tissue transfer	02	General Surgery	1,281
15120	Split-thickness autograft	02	General Surgery	1,279
43846	Gastric restrictive proce	02	General Surgery	1,279
35860	Exploration for postoper	02	General Surgery	1,252
35875	Thrombectomy of arteria	02	General Surgery	1,243
35141	Direct repair of aneurysr	02	General Surgery	1,241
48153	Pancreatectomy, proxim	02	General Surgery	1,241
63047	Laminectomy, facetecto	02	General Surgery	1,239
58940	Oophorectomy, partial o	02	General Surgery	1,234
27236	Open treatment of femo	02	General Surgery	1,229
46270	Surgical treatment of an	02	General Surgery	1,220
35585	In-situ vein bypass; fem	02	General Surgery	1,219
43610	Excision, local; ulcer or l	02	General Surgery	1,219
34803	Endovascular repair of il	02	General Surgery	1,213
45395	Laparoscopy, surgical; p	02	General Surgery	1,197
43832	Gastrostomy, open; with	02	General Surgery	1,194
21501	Incision and drainage, d	02	General Surgery	1,190
37722	Ligation, division, and st	02	General Surgery	1,188
49590	Repair spigelian hernia	02	General Surgery	1,162
38760	Inguinofemoral lymphad	02	General Surgery	1,160
44125	Enterectomy, resection	02	General Surgery	1,150
19110	Nipple exploration, with	02	General Surgery	1,146
35226	Repair blood vessel, dire	02	General Surgery	1,133
44640	Closure of intestinal cuta	02	General Surgery	1,129
60210	Partial thyroid lobectomy	02	General Surgery	1,113
47780	Anastomosis, Roux-en-Y	02	General Surgery	1,110
35583	In-situ vein bypass; fem	02	General Surgery	1,066
35761	Exploration (not followe	02	General Surgery	1,052
27047	Excision, tumor, pelvis a	02	General Surgery	1,047
38308	Lymphangiomy or othe	02	General Surgery	1,043
35082	Direct repair of aneurysr	02	General Surgery	1,031
49402	Removal of peritoneal fo	02	General Surgery	1,013
35666	Bypass graft, with other	02	General Surgery	991
49060	Drainage of retroperiton	02	General Surgery	980
26990	Incision and drainage, p	02	General Surgery	970
49010	Exploration, retroperiton	02	General Surgery	965
50370	Removal of transplanted	02	General Surgery	960
48100	Biopsy of pancreas, ope	02	General Surgery	957
23076	Excision, soft tissue tum	02	General Surgery	956
46200	Fissurectomy, with or wi	02	General Surgery	948

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44345	Revision of colostomy; c	02	General Surgery	933
15936	Excision, sacral pressur	02	General Surgery	930
49570	Repair epigastric hernia	02	General Surgery	928
21015	Radical resection of tum	02	General Surgery	911
35571	Bypass graft, with vein; i	02	General Surgery	905
44020	Enterotomy, small intest	02	General Surgery	896
44206	Laparoscopy, surgical; c	02	General Surgery	894
60200	Excision of cyst or aden	02	General Surgery	892
45130	Excision of rectal procid	02	General Surgery	890
35840	Exploration for postoper	02	General Surgery	887
27328	Excision, tumor, thigh or	02	General Surgery	870
44187	Laparoscopy, surgical; il	02	General Surgery	853
43501	Gastrotomy; with suture	02	General Surgery	852
15300	Allograft skin for tempor	02	General Surgery	845
44021	Enterotomy, small intest	02	General Surgery	840
55040	Excision of hydrocele; u	02	General Surgery	840
15260	Full thickness graft, free	02	General Surgery	837
34101	Embolectomy or thromb	02	General Surgery	823
36834	Plastic repair of arteriove	02	General Surgery	815
34203	Embolectomy or thromb	02	General Surgery	809
45100	Biopsy of anorectal wall,	02	General Surgery	807
26160	Excision of lesion of ten	02	General Surgery	803
43653	Laparoscopy, surgical; g	02	General Surgery	803
25111	Excision of ganglion, wri	02	General Surgery	790
50230	Nephrectomy, including	02	General Surgery	788
50605	Ureterotomy for insertio	02	General Surgery	785
24076	Excision, tumor, soft tiss	02	General Surgery	780
22612	Arthrodesis, posterior or	02	General Surgery	779
21557	Radical resection of tum	02	General Surgery	777
43621	Gastrectomy, total; with	02	General Surgery	774
46280	Surgical treatment of an	02	General Surgery	771
44147	Colectomy, partial; abdo	02	General Surgery	770
43611	Excision, local; malignan	02	General Surgery	769
14021	Adjacent tissue transfer	02	General Surgery	758
26951	Amputation, finger or thu	02	General Surgery	754
60650	Laparoscopy, surgical, v	02	General Surgery	753
15240	Full thickness graft, free	02	General Surgery	744
21935	Radical resection of tum	02	General Surgery	741
60225	Total thyroid lobectomy,	02	General Surgery	740
43800	Pyloroplasty	02	General Surgery	739
62223	Creation of shunt; ventri	02	General Surgery	738
35206	Repair blood vessel, dire	02	General Surgery	733
44800	Excision of Meckel's div	02	General Surgery	724
15931	Excision, sacral pressur	02	General Surgery	709
49572	Repair epigastric hernia	02	General Surgery	706
60271	Thyroidectomy, including	02	General Surgery	701
46936	Destruction of hemorrh	02	General Surgery	699
27244	Treatment of intertrocha	02	General Surgery	692
27618	Excision, tumor, leg or a	02	General Surgery	678
35355	Thromboendarterectomy	02	General Surgery	675
37760	Ligation of perforator ve	02	General Surgery	675
35876	Thrombectomy of arteria	02	General Surgery	674

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44314	Revision of ileostomy; co	02	General Surgery	672
33025	Creation of pericardial w	02	General Surgery	671
35665	Bypass graft, with other	02	General Surgery	671
35221	Repair blood vessel, dire	02	General Surgery	669
47760	Anastomosis, of extrahe	02	General Surgery	669
43870	Closure of gastrostomy,	02	General Surgery	661
60252	Thyroidectomy, total or s	02	General Surgery	659
47420	Choledochotomy or cho	02	General Surgery	656
15220	Full thickness graft, free	02	General Surgery	651
37700	Ligation and division of l	02	General Surgery	645
44340	Revision of colostomy; s	02	General Surgery	645
43640	Vagotomy including pylc	02	General Surgery	643
19304	Mastectomy, subcutane	02	General Surgery	641
35011	Direct repair of aneurysr	02	General Surgery	641
44661	Closure of enterovesical	02	General Surgery	638
46945	Ligation of internal hemo	02	General Surgery	637
54520	Orchiectomy, simple (inc	02	General Surgery	637
46060	Incision and drainage of	02	General Surgery	631
44615	Intestinal stricturoplasty	02	General Surgery	628
44155	Colectomy, total, abdom	02	General Surgery	624
43845	Gastric restrictive proce	02	General Surgery	620
17108	Destruction of cutaneous	02	General Surgery	613
50205	Renal biopsy; by surgical	02	General Surgery	613
49040	Drainage of subdiaphrag	02	General Surgery	612
46275	Surgical treatment of an	02	General Surgery	611
15738	Muscle, myocutaneous,	02	General Surgery	610
60260	Thyroidectomy, removal	02	General Surgery	608
26055	Tendon sheath incision	02	General Surgery	603
48554	Transplantation of pancr	02	General Surgery	594
43860	Revision of gastrojejuna	02	General Surgery	590
44010	Duodenotomy, for explo	02	General Surgery	590
48105	Resection or debrideme	02	General Surgery	580
27596	Amputation, thigh, throu	02	General Surgery	579
63030	Laminotomy (hemilamin	02	General Surgery	579
33430	Replacement, mitral valv	02	General Surgery	573
43117	Partial esophagectomy,	02	General Surgery	564
27886	Amputation, leg, through	02	General Surgery	558
15946	Excision, ischial pressur	02	General Surgery	549
27048	Excision, tumor, pelvis a	02	General Surgery	549
37215	Transcatheter placemen	02	General Surgery	543
44186	Laparoscopy, surgical; je	02	General Surgery	542
47130	Hepatectomy, resection	02	General Surgery	542
14041	Adjacent tissue transfer	02	General Surgery	541
35190	Repair, acquired or trau	02	General Surgery	539
50220	Nephrectomy, including	02	General Surgery	539
57288	Sling operation for stres	02	General Surgery	535
11450	Excision of skin and sub	02	General Surgery	526
27882	Amputation, leg, through	02	General Surgery	526
47612	Cholecystectomy with ex	02	General Surgery	524
58660	Laparoscopy, surgical; v	02	General Surgery	523
35800	Exploration for postoper	02	General Surgery	522
21800	Closed treatment of rib f	02	General Surgery	512

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15937	Excision, sacral pressur	02	General Surgery	511
47480	Cholecystotomy or chole	02	General Surgery	511
55845	Prostatectomy, retropub	02	General Surgery	511
27602	Decompression fascioto	02	General Surgery	508
11771	Excision of pilonidal cys	02	General Surgery	500
25028	Incision and drainage, fo	02	General Surgery	499
15830	Excision, excessive skin	02	General Surgery	495
44025	Colotomy, for exploratio	02	General Surgery	492
33510	Coronary artery bypass,	02	General Surgery	486
38520	Biopsy or excision of lym	02	General Surgery	479
21925	Biopsy, soft tissue of ba	02	General Surgery	477
22554	Arthrodesis, anterior inte	02	General Surgery	472
32100	Thoracotomy, major; wit	02	General Surgery	465
20680	Removal of implant; dee	02	General Surgery	464
49255	Omentectomy, epiploec	02	General Surgery	463
38724	Cervical lymphadenecto	02	General Surgery	461
38562	Limited lymphadenector	02	General Surgery	453
60502	Parathyroidectomy or ex	02	General Surgery	452
35091	Direct repair of aneurysr	02	General Surgery	451
27245	Treatment of intertrocha	02	General Surgery	442
33534	Coronary artery bypass,	02	General Surgery	440
35351	Thromboendarterectomy	02	General Surgery	437
46946	Ligation of internal hemo	02	General Surgery	434
43500	Gastrotomy; with explor	02	General Surgery	432
35721	Exploration (not followe	02	General Surgery	431
33511	Coronary artery bypass,	02	General Surgery	429
35654	Bypass graft, with other	02	General Surgery	415
47380	Ablation, open, of one o	02	General Surgery	415
43107	Total or near total esoph	02	General Surgery	411
27324	Biopsy, soft tissue of thi	02	General Surgery	407
47010	Hepatotomy; for open dr	02	General Surgery	406
57240	Anterior colporrhaphy, re	02	General Surgery	404
32220	Decortication, pulmonar	02	General Surgery	403
26115	Excision, tumor or vascu	02	General Surgery	399
25076	Excision, tumor, soft tiss	02	General Surgery	396
27125	Hemiarthroplasty, hip, p	02	General Surgery	396
57260	Combined anteroposteri	02	General Surgery	394
28003	Incision and drainage be	02	General Surgery	393
58957	Resection (tumor debulk	02	General Surgery	392
15170	Acellular dermal replace	02	General Surgery	390
32651	Thoracoscopy, surgical;	02	General Surgery	386
63075	Discectomy, anterior, wi	02	General Surgery	386
51860	Cystorrhaphy, suture of	02	General Surgery	385
47370	Laparoscopy, surgical, a	02	General Surgery	384
37618	Ligation, major artery (e	02	General Surgery	383
35820	Exploration for postoper	02	General Surgery	380
45111	Proctectomy; partial res	02	General Surgery	378
60540	Adrenalectomy, partial c	02	General Surgery	378
15330	Acellular dermal allograf	02	General Surgery	377
15115	Epidermal autograft, fac	02	General Surgery	372
37617	Ligation, major artery (e	02	General Surgery	371
27615	Radical resection of tum	02	General Surgery	370

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33426	Valvuloplasty, mitral valv	02	General Surgery	368
50545	Laparoscopy, surgical; r	02	General Surgery	366
27329	Radical resection of tum	02	General Surgery	364
45020	Incision and drainage of	02	General Surgery	363
44650	Closure of enteroenteric	02	General Surgery	358
32663	Thoracoscopy, surgical;	02	General Surgery	353
35151	Direct repair of aneurysr	02	General Surgery	353
15956	Excision, trochanteric pr	02	General Surgery	348
44312	Revision of ileostomy; si	02	General Surgery	348
32095	Thoracotomy, limited, fo	02	General Surgery	347
24077	Radical resection of tum	02	General Surgery	345
19260	Excision of chest wall tu	02	General Surgery	343
32652	Thoracoscopy, surgical;	02	General Surgery	341
47125	Hepatectomy, resection	02	General Surgery	341
35879	Revision, lower extremit	02	General Surgery	339
44210	Laparoscopy, surgical; c	02	General Surgery	339
42415	Excision of parotid tumo	02	General Surgery	338
11772	Excision of pilonidal cys	02	General Surgery	337
49557	Repair recurrent femora	02	General Surgery	337
33512	Coronary artery bypass,	02	General Surgery	329
43122	Partial esophagectomy,	02	General Surgery	328
43130	Diverticulectomy of hypc	02	General Surgery	325
44700	Exclusion of small intest	02	General Surgery	319
45400	Laparoscopy, surgical; p	02	General Surgery	317
47785	Anastomosis, Roux-en-Y	02	General Surgery	314
35103	Direct repair of aneurysr	02	General Surgery	310
46261	Hemorrhoidectomy, inte	02	General Surgery	309
43848	Revision, open, of gastr	02	General Surgery	307
17107	Destruction of cutaneous	02	General Surgery	305
36838	Distal revascularization	02	General Surgery	305
38542	Dissection, deep jugular	02	General Surgery	304
44208	Laparoscopy, surgical; c	02	General Surgery	304
15400	Xenograft, skin (dermal)	02	General Surgery	302
47350	Management of liver he	02	General Surgery	300
62362	Implantation or replacen	02	General Surgery	293
19305	Mastectomy, radical, inc	02	General Surgery	292
69110	Excision external ear; pa	02	General Surgery	292
22630	Arthrodesis, posterior in	02	General Surgery	291
32484	Removal of lung, other t	02	General Surgery	287
35286	Repair blood vessel with	02	General Surgery	287
45505	Proctoplasty; for prolaps	02	General Surgery	287
27619	Excision, tumor, leg or a	02	General Surgery	286
35631	Bypass graft, with other	02	General Surgery	286
25077	Radical resection of tum	02	General Surgery	282
32482	Removal of lung, other t	02	General Surgery	282
33215	Repositioning of previou	02	General Surgery	281
39520	Repair, diaphragmatic h	02	General Surgery	280
51550	Cystectomy, partial; sim	02	General Surgery	280
24105	Excision, olecranon burs	02	General Surgery	279
38564	Limited lymphadenector	02	General Surgery	279
58925	Ovarian cystectomy, uni	02	General Surgery	279
27884	Amputation, leg, through	02	General Surgery	278

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46700	Anoplasty, plastic opera	02	General Surgery	274
20926	Tissue grafts, other (eg,	02	General Surgery	273
44055	Correction of malrotatio	02	General Surgery	273
45541	Proctopexy (eg, for prola	02	General Surgery	268
35621	Bypass graft, with other	02	General Surgery	266
32320	Decortication and pariet	02	General Surgery	262
57250	Posterior colporrhaphy,	02	General Surgery	261
44605	Suture of large intestine	02	General Surgery	260
35256	Repair blood vessel with	02	General Surgery	258
33222	Revision or relocation of	02	General Surgery	256
46045	Incision and drainage of	02	General Surgery	255
49425	Insertion of peritoneal-ve	02	General Surgery	254
37718	Ligation, division, and st	02	General Surgery	253
48520	Internal anastomosis of	02	General Surgery	253
57305	Closure of rectovaginal f	02	General Surgery	252
33254	Operative tissue ablatio	02	General Surgery	251
45560	Repair of rectocele (sep	02	General Surgery	248
28005	Incision, bone cortex (eg	02	General Surgery	247
35606	Bypass graft, with other	02	General Surgery	244
29848	Endoscopy, wrist, surgic	02	General Surgery	242
47800	Reconstruction, plastic,	02	General Surgery	241
27598	Disarticulation at knee	02	General Surgery	239
23077	Radical resection of tum	02	General Surgery	234
33217	Insertion of a transveno	02	General Surgery	234
35558	Bypass graft, with vein; t	02	General Surgery	234
63042	Laminotomy (hemilamin	02	General Surgery	234
66984	Extracapsular cataract r	02	General Surgery	234
35302	Thromboendarterectomy	02	General Surgery	234
35303	Thromboendarterectomy	02	General Surgery	234
35304	Thromboendarterectomy	02	General Surgery	234
35305	Thromboendarterectomy	02	General Surgery	234
39501	Repair, laceration of dia	02	General Surgery	232
43605	Biopsy of stomach; by la	02	General Surgery	232
15731	Forehead flap with prese	02	General Surgery	232
34111	Embolectomy or thromb	02	General Surgery	231
15940	Excision, ischial pressur	02	General Surgery	229
58260	Vaginal hysterectomy, fo	02	General Surgery	229
11462	Excision of skin and sub	02	General Surgery	226
57265	Combined anteroposteri	02	General Surgery	226
11470	Excision of skin and sub	02	General Surgery	225
63090	Vertebral corpectomy (v	02	General Surgery	225
31610	Tracheostomy, fenestra	02	General Surgery	224
38770	Pelvic lymphadenectom	02	General Surgery	223
50546	Laparoscopy, surgical; r	02	General Surgery	221
28122	Partial excision (crateriz	02	General Surgery	219
45190	Destruction of rectal tum	02	General Surgery	219
43847	Gastric restrictive proce	02	General Surgery	218
15320	Allograft skin for tempor	02	General Surgery	216
23420	Reconstruction of comp	02	General Surgery	216
27041	Biopsy, soft tissue of pe	02	General Surgery	216
42410	Excision of parotid tumo	02	General Surgery	215
33256	Operative tissue ablatio	02	General Surgery	214

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55500	Excision of hydrocele of	02	General Surgery	212
33860	Ascending aorta graft, w	02	General Surgery	209
35236	Repair blood vessel with	02	General Surgery	209
27614	Biopsy, soft tissue of leg	02	General Surgery	208
42440	Excision of submandibu	02	General Surgery	208
35131	Direct repair of aneurysr	02	General Surgery	207
61885	Insertion or replacement	02	General Surgery	207
34900	Endovascular graft place	02	General Surgery	206
44660	Closure of enterovesical	02	General Surgery	206
45550	Proctopexy (eg, for prol	02	General Surgery	203
32440	Removal of lung, total p	02	General Surgery	202
26910	Amputation, metacarpal	02	General Surgery	201
32655	Thoracoscopy, surgical;	02	General Surgery	201
37500	Vascular endoscopy, su	02	General Surgery	201
32124	Thoracotomy, major; wit	02	General Surgery	199
39560	Resection, diaphragm; v	02	General Surgery	199
27446	Arthroplasty, knee, cond	02	General Surgery	198
38115	Repair of ruptured splee	02	General Surgery	198
34804	Endovascular repair of i	02	General Surgery	197
39541	Repair, diaphragmatic h	02	General Surgery	197
15200	Full thickness graft, free	02	General Surgery	195
50715	Ureterolysis, with or with	02	General Surgery	195
34151	Embolectomy or thromb	02	General Surgery	194
35587	In-situ vein bypass; popl	02	General Surgery	194
60212	Partial thyroid lobectomy	02	General Surgery	194
27600	Decompression fasciot	02	General Surgery	193
27881	Amputation, leg, through	02	General Surgery	193
32653	Thoracoscopy, surgical;	02	General Surgery	193
19328	Removal of intact mamr	02	General Surgery	191
46750	Sphincteroplasty, anal, f	02	General Surgery	191
27049	Radical resection of tum	02	General Surgery	190
44111	Excision of one or more	02	General Surgery	190
49555	Repair recurrent femora	02	General Surgery	190
55540	Excision of varicocele or	02	General Surgery	190
58700	Salpingectomy, complet	02	General Surgery	190
43880	Closure of gastrocolic fi	02	General Surgery	188
44900	Incision and drainage of	02	General Surgery	188
50240	Nephrectomy, partial	02	General Surgery	188
15420	Xenograft skin (dermal),	02	General Surgery	187
39010	Mediastinotomy with exp	02	General Surgery	187
45402	Laparoscopy, surgical; p	02	General Surgery	185
31613	Tracheostoma revision;	02	General Surgery	185
38530	Biopsy or excision of lym	02	General Surgery	185
35321	Thromboendarterectomy	02	General Surgery	184
43330	Esophagomyotomy (Hel	02	General Surgery	184
28120	Partial excision (crateriz	02	General Surgery	182
15130	Dermal autograft, trunk,	02	General Surgery	182
48120	Excision of lesion of par	02	General Surgery	181
50320	Donor nephrectomy (inc	02	General Surgery	181
52601	Transurethral electrosur	02	General Surgery	181
58740	Lysis of adhesions (salp	02	General Surgery	181
49250	Umbilectomy, omphalec	02	General Surgery	180

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45123	Proctectomy, partial, with	02	General Surgery	179
57282	Colpopexy, vaginal; extr	02	General Surgery	178
15110	Epidermal autograft, tru	02	General Surgery	178
35883	Revision, femoral anasto	02	General Surgery	178
35884	Revision, femoral anasto	02	General Surgery	178
15933	Excision, sacral pressur	02	General Surgery	177
27594	Amputation, thigh, throu	02	General Surgery	177
28800	Amputation, foot; midtar	02	General Surgery	177
15736	Muscle, myocutaneous,	02	General Surgery	176
50590	Lithotripsy, extracorpore	02	General Surgery	176
43620	Gastrectomy, total; with	02	General Surgery	174
44850	Suture of mesentery (se	02	General Surgery	174
11451	Excision of skin and sub	02	General Surgery	173
19318	Reduction mammoplast	02	General Surgery	173
35881	Revision, lower extremi	02	General Surgery	173
60520	Thymectomy, partial or t	02	General Surgery	173
64573	Incision for implantation	02	General Surgery	172
32656	Thoracoscopy, surgical;	02	General Surgery	171
45112	Proctectomy, combined	02	General Surgery	171
63685	Insertion or replacement	02	General Surgery	171
55866	Laparoscopy, surgical p	02	General Surgery	170
27487	Revision of total knee ar	02	General Surgery	169
43415	Suture of esophageal we	02	General Surgery	168
35907	Excision of infected graf	02	General Surgery	167
51040	Cystostomy, cystotomy v	02	General Surgery	167
57280	Colpopexy, abdominal a	02	General Surgery	167
35045	Direct repair of aneurysm	02	General Surgery	165
35201	Repair blood vessel, dire	02	General Surgery	165
33881	Endovascular repair of c	02	General Surgery	164
51865	Cystorrhaphy, suture of	02	General Surgery	164
58552	Laparoscopy, surgical, v	02	General Surgery	163
51045	Cystotomy, with insertio	02	General Surgery	163
23412	Repair of ruptured musc	02	General Surgery	161
24066	Biopsy, soft tissue of up	02	General Surgery	161
51595	Cystectomy, complete, v	02	General Surgery	161
47711	Excision of bile duct tum	02	General Surgery	160
49062	Drainage of extraperiton	02	General Surgery	159
49323	Laparoscopy, surgical; v	02	General Surgery	158
47122	Hepatectomy, resection	02	General Surgery	157
47300	Marsupialization of cyst	02	General Surgery	157
49426	Revision of peritoneal-ve	02	General Surgery	157
33216	Insertion of a transveno	02	General Surgery	156
50820	Ureteroileal conduit (ilea	02	General Surgery	156
26116	Excision, tumor or vascu	02	General Surgery	155
15360	Tissue cultured allogene	02	General Surgery	154
35701	Exploration (not followe	02	General Surgery	153
15175	Acellular dermal replace	02	General Surgery	150
43825	Gastrojejunostomy; with	02	General Surgery	149
14061	Adjacent tissue transfer	02	General Surgery	147
17106	Destruction of cutaneous	02	General Surgery	147
25600	Closed treatment of dist	02	General Surgery	147
33206	Insertion or replacement	02	General Surgery	147

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35142	Direct repair of aneurysm	02	General Surgery	147
29826	Arthroscopy, shoulder, s	02	General Surgery	146
46257	Hemorrhoidectomy, inte	02	General Surgery	146
15934	Excision, sacral pressur	02	General Surgery	144
61793	Stereotactic radiosurger	02	General Surgery	144
33202	Insertion of epicardial el	02	General Surgery	144
27592	Amputation, thigh, throu	02	General Surgery	143
35637	Bypass graft, with other	02	General Surgery	143
35638	Bypass graft, with other	02	General Surgery	143
62230	Replacement or revisior	02	General Surgery	142
21600	Excision of rib, partial	02	General Surgery	141
33249	Insertion or repositioning	02	General Surgery	140
50780	Ureteroneocystostomy; r	02	General Surgery	140
19316	Mastopexy	02	General Surgery	138
23066	Biopsy, soft tissue of sh	02	General Surgery	138
33641	Repair atrial septal defe	02	General Surgery	138
35001	Direct repair of aneurysm	02	General Surgery	138
35741	Exploration (not followe	02	General Surgery	138
48510	External drainage, pseu	02	General Surgery	138
19357	Breast reconstruction, in	02	General Surgery	137
21627	Sternal debridement	02	General Surgery	137
32110	Thoracotomy, major; wit	02	General Surgery	137
43645	Laparoscopy, surgical, g	02	General Surgery	137
15950	Excision, trochanteric pr	02	General Surgery	136
33427	Valvuloplasty, mitral valv	02	General Surgery	136
34800	Endovascular repair of il	02	General Surgery	136
43774	Laparoscopy, surgical, g	02	General Surgery	136
58952	Resection (initial) of ova	02	General Surgery	136
15732	Muscle, myocutaneous,	02	General Surgery	135
16035	Escharotomy; initial incis	02	General Surgery	135
27134	Revision of total hip arth	02	General Surgery	134
58180	Supracervical abdomina	02	General Surgery	134
19366	Breast reconstruction wi	02	General Surgery	133
46262	Hemorrhoidectomy, inte	02	General Surgery	133
48000	Placement of drains, pe	02	General Surgery	132
49540	Repair lumbar hernia	02	General Surgery	132
35341	Thromboendarterectomy	02	General Surgery	130
47361	Management of liver he	02	General Surgery	130
55840	Prostatectomy, retropub	02	General Surgery	130
38765	Inguinofemoral lymphad	02	General Surgery	129
44820	Excision of lesion of me	02	General Surgery	129
47720	Cholecystoenterostomy;	02	General Surgery	129
23120	Claviclectomy; partial	02	General Surgery	128
25447	Arthroplasty, interpositio	02	General Surgery	128
36262	Removal of implanted in	02	General Surgery	128
33464	Valvuloplasty, tricuspid v	02	General Surgery	127
35647	Bypass graft, with other	02	General Surgery	127
45000	Transrectal drainage of	02	General Surgery	127
50365	Renal allotransplantatio	02	General Surgery	127
28043	Excision, tumor, foot; su	02	General Surgery	126
33513	Coronary artery bypass,	02	General Surgery	125
35671	Bypass graft, with other	02	General Surgery	125

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38720	Cervical lymphadenecto	02	General Surgery	124
43030	Cricopharyngeal myoton	02	General Surgery	123
35525	Bypass graft, with vein; i	02	General Surgery	122
32225	Decortication, pulmonar	02	General Surgery	121
47510	Introduction of percutane	02	General Surgery	121
47900	Suture of extrahepatic b	02	General Surgery	121
28192	Removal of foreign body	02	General Surgery	120
28140	Metatarsectomy	02	General Surgery	118
58662	Laparoscopy, surgical; v	02	General Surgery	118
32120	Thoracotomy, major; for	02	General Surgery	117
48155	Pancreatectomy, total	02	General Surgery	116
35013	Direct repair of aneurysm	02	General Surgery	114
35092	Direct repair of aneurysm	02	General Surgery	114
35331	Thromboendarterectomy	02	General Surgery	113
36260	Insertion of implantable	02	General Surgery	113
43622	Gastrectomy, total; with	02	General Surgery	113
47801	Placement of choledoch	02	General Surgery	113
55060	Repair of tunica vaginali	02	General Surgery	113
15574	Formation of direct or tu	02	General Surgery	112
42420	Excision of parotid tumo	02	General Surgery	112
43112	Total or near total esoph	02	General Surgery	112
43326	Esophagogastric fundop	02	General Surgery	112
47630	Biliary duct stone extrac	02	General Surgery	112
50760	Ureteroureterostomy	02	General Surgery	112
26123	Fasciectomy, partial pal	02	General Surgery	111
64788	Excision of neurofibroma	02	General Surgery	109
33284	Removal of an implantab	02	General Surgery	108
43843	Gastric restrictive proce	02	General Surgery	108
51555	Cystectomy, partial; com	02	General Surgery	108
15150	Tissue cultured epiderm	02	General Surgery	108
27080	Coccygectomy, primary	02	General Surgery	106
50234	Nephrectomy with total u	02	General Surgery	106
29881	Arthroscopy, knee, surg	02	General Surgery	105
48556	Removal of transplanted	02	General Surgery	105
61510	Craniectomy, trephinic	02	General Surgery	105
35565	Bypass graft, with vein; i	02	General Surgery	104
37780	Ligation and division of s	02	General Surgery	104
47620	Cholecystectomy with ex	02	General Surgery	104
52648	Laser vaporization of pro	02	General Surgery	104
54530	Orchiectomy, radical, fo	02	General Surgery	104
61312	Craniectomy or cranioto	02	General Surgery	104
63087	Vertebral corpectomy (v	02	General Surgery	104
45397	Laparoscopy, surgical; p	02	General Surgery	104
32504	Resection of apical lung	02	General Surgery	103
35251	Repair blood vessel with	02	General Surgery	103
48540	Internal anastomosis of	02	General Surgery	103
57106	Vaginectomy, partial ren	02	General Surgery	103
58950	Resection (initial) of ova	02	General Surgery	103
43771	Laparoscopy, surgical, g	02	General Surgery	103
15050	Pinch graft, single or mu	02	General Surgery	102
60545	Adrenalectomy, partial c	02	General Surgery	102
48548	Pancreaticojejunostomy	02	General Surgery	101

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15958	Excision, trochanteric pr	02	General Surgery	100
19371	Periprosthetic capsulect	02	General Surgery	100
25248	Exploration with remova	02	General Surgery	100
27486	Revision of total knee ar	02	General Surgery	99
15576	Formation of direct or tu	02	General Surgery	98
25605	Closed treatment of dist	02	General Surgery	97
26952	Amputation, finger or th	02	General Surgery	97
28111	Ostectomy, complete ex	02	General Surgery	97
37735	Ligation and division and	02	General Surgery	97
38550	Excision of cystic hygro	02	General Surgery	97
45119	Proctectomy, combined	02	General Surgery	96
27786	Closed treatment of dist	02	General Surgery	96
39561	Resection, diaphragm; v	02	General Surgery	96
63045	Laminectomy, facetecto	02	General Surgery	96
27087	Removal of foreign body	02	General Surgery	95
49419	Insertion of intraperitone	02	General Surgery	95
23600	Closed treatment of pro	02	General Surgery	94
28112	Ostectomy, complete ex	02	General Surgery	94
35266	Repair blood vessel with	02	General Surgery	94
39000	Mediastinotomy with exp	02	General Surgery	94
62350	Implantation, revision or	02	General Surgery	94
28090	Excision of lesion, tend	02	General Surgery	93
33282	Implantation of patient-a	02	General Surgery	93
38305	Drainage of lymph node	02	General Surgery	93
58200	Total abdominal hyster	02	General Surgery	93
43888	Gastric restrictive proce	02	General Surgery	92
28470	Closed treatment of met	02	General Surgery	92
58960	Laparotomy, for staging	02	General Surgery	92
60270	Thyroidectomy, includin	02	General Surgery	92
64708	Neuroplasty, major perip	02	General Surgery	92
64722	Decompression; unspec	02	General Surgery	91
26992	Incision, bone cortex, pe	02	General Surgery	90
27506	Open treatment of femo	02	General Surgery	90
33235	Removal of transvenous	02	General Surgery	90
15839	Excision, excessive skin	02	General Surgery	89
15920	Excision, coccygeal pres	02	General Surgery	89
23470	Arthroplasty, glenohume	02	General Surgery	89
23472	Arthroplasty, glenohume	02	General Surgery	89
15135	Dermal autograft, face, s	02	General Surgery	88
26020	Drainage of tendon shea	02	General Surgery	88
33877	Repair of thoracoabdom	02	General Surgery	88
34490	Thrombectomy, direct or	02	General Surgery	88
45800	Closure of rectovesical f	02	General Surgery	88
47741	Cholecystoenterostomy;	02	General Surgery	88
63081	Vertebral corpectomy (v	02	General Surgery	88
19330	Removal of mammary ir	02	General Surgery	87
32141	Thoracotomy, major; wit	02	General Surgery	87
39530	Repair, diaphragmatic h	02	General Surgery	87
46753	Graft (Thiersch operatio	02	General Surgery	87
62365	Removal of subcutaneo	02	General Surgery	87
19112	Excision of lactiferous d	02	General Surgery	86
33255	Operative tissue ablatio	02	General Surgery	86

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29880	Arthroscopy, knee, surg	02	General Surgery	85
44151	Colectomy, total, abdom	02	General Surgery	85
58210	Radical abdominal hyste	02	General Surgery	85
49215	Excision of presacral or	02	General Surgery	84
53850	Transurethral destructio	02	General Surgery	84
57300	Closure of rectovaginal t	02	General Surgery	84
60254	Thyroidectomy, total or s	02	General Surgery	84
43886	Gastric restrictive proce	02	General Surgery	83
43320	Esophagogastrostomy (e	02	General Surgery	83
43810	Gastroduodenostomy	02	General Surgery	83
15935	Excision, sacral pressur	02	General Surgery	82
26418	Repair, extensor tendon	02	General Surgery	82
27372	Removal of foreign body	02	General Surgery	82
47362	Management of liver he	02	General Surgery	82
22600	Arthrodesis, posterior or	02	General Surgery	81
39220	Excision of mediastinal t	02	General Surgery	81
51590	Cystectomy, complete, v	02	General Surgery	81
60505	Parathyroidectomy or ex	02	General Surgery	81
26145	Synovectomy, tendon sh	02	General Surgery	80
33234	Removal of transvenous	02	General Surgery	80
15941	Excision, ischial pressur	02	General Surgery	79
21750	Closure of median stern	02	General Surgery	79
25310	Tendon transplantation	02	General Surgery	79
45562	Exploration, repair, and	02	General Surgery	79
47460	Transduodenal sphincter	02	General Surgery	79
58953	Bilateral salpingo-ooph	02	General Surgery	79
64714	Neuroplasty, major perip	02	General Surgery	79
58958	Resection (tumor debulk	02	General Surgery	79
32503	Resection of apical lung	02	General Surgery	79
11463	Excision of skin and sub	02	General Surgery	78
29827	Arthroscopy, shoulder, s	02	General Surgery	78
33411	Replacement, aortic valv	02	General Surgery	78
36823	Insertion of arterial and v	02	General Surgery	78
58140	Myomectomy, excision o	02	General Surgery	78
15570	Formation of direct or tu	02	General Surgery	77
32160	Thoracotomy, major; wit	02	General Surgery	77
41112	Excision of lesion of ton	02	General Surgery	77
47740	Cholecystoenterostomy;	02	General Surgery	77
48148	Excision of ampulla of V	02	General Surgery	77
58943	Oophorectomy, partial o	02	General Surgery	77
43773	Laparoscopy, surgical, g	02	General Surgery	77
22556	Arthrodesis, anterior inte	02	General Surgery	76
28150	Phalangectomy, toe, ea	02	General Surgery	76
35531	Bypass graft, with vein; s	02	General Surgery	76
39540	Repair, diaphragmatic h	02	General Surgery	76
40520	Excision of lip; V-excisi	02	General Surgery	76
43520	Pyloromyotomy, cutting	02	General Surgery	76
64718	Neuroplasty and/or trans	02	General Surgery	76
15572	Formation of direct or tu	02	General Surgery	75
33880	Endovascular repair of c	02	General Surgery	75
46288	Closure of anal fistula w	02	General Surgery	75
19380	Revision of reconstructe	02	General Surgery	74

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33863	Ascending aorta graft, w	02	General Surgery	74
40510	Excision of lip; transvers	02	General Surgery	74
64774	Excision of neuroma; cu	02	General Surgery	74
25066	Biopsy, soft tissue of for	02	General Surgery	73
35132	Direct repair of aneurysr	02	General Surgery	73
43772	Laparoscopy, surgical, g	02	General Surgery	73
29824	Arthroscopy, shoulder, s	02	General Surgery	72
33240	Insertion of single or dua	02	General Surgery	72
33241	Subcutaneous removal of	02	General Surgery	72
33535	Coronary artery bypass,	02	General Surgery	72
58262	Vaginal hysterectomy, fo	02	General Surgery	72
19306	Mastectomy, radical, inc	02	General Surgery	71
19350	Nipple/areola reconstruct	02	General Surgery	71
29823	Arthroscopy, shoulder, s	02	General Surgery	71
34805	Endovascular repair of il	02	General Surgery	71
43325	Esophagogastric fundop	02	General Surgery	71
44126	Enterectomy, resection o	02	General Surgery	71
43887	Gastric restrictive proce	02	General Surgery	70
28045	Excision, tumor, foot; de	02	General Surgery	70
33030	Pericardiectomy, subtota	02	General Surgery	70
47360	Management of liver he	02	General Surgery	70
15944	Excision, ischial pressur	02	General Surgery	69
22852	Removal of posterior se	02	General Surgery	69
48145	Pancreatectomy, distal s	02	General Surgery	69
50010	Renal exploration, not n	02	General Surgery	69
50020	Drainage of perirenal or	02	General Surgery	69
58956	Bilateral salpingo-oopho	02	General Surgery	69
62355	Removal of previously in	02	General Surgery	69
63056	Transpedicular approach	02	General Surgery	69
47765	Anastomosis, of intrahe	02	General Surgery	68
64719	Neuroplasty and/or trans	02	General Surgery	68
33425	Valvuloplasty, mitral valv	02	General Surgery	67
44212	Laparoscopy, surgical; c	02	General Surgery	67
48152	Pancreatectomy, proxim	02	General Surgery	67
64784	Excision of neuroma; ma	02	General Surgery	67
32659	Thoracoscopy, surgical;	02	General Surgery	66
11471	Excision of skin and sub	02	General Surgery	65
21620	Ostectomy of sternum, p	02	General Surgery	65
28046	Radical resection of tum	02	General Surgery	65
35261	Repair blood vessel with	02	General Surgery	65
35650	Bypass graft, with other	02	General Surgery	65
43502	Gastrotomy; with suture	02	General Surgery	65
47721	Cholecystoenterostomy;	02	General Surgery	65
62360	Implantation or replacen	02	General Surgery	65
25115	Radical excision of burs	02	General Surgery	64
27132	Conversion of previous l	02	General Surgery	64
27630	Excision of lesion of ten	02	General Surgery	64
34421	Thrombectomy, direct o	02	General Surgery	64
44680	Intestinal plication (sepa	02	General Surgery	64
23650	Closed treatment of sho	02	General Surgery	63
27025	Fasciotomy, hip or thigh	02	General Surgery	63
28124	Partial excision (crateriz	02	General Surgery	63

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51840	Anterior vesicourethrope	02	General Surgery	63
26600	Closed treatment of met	02	General Surgery	62
27814	Open treatment of bima	02	General Surgery	62
34502	Reconstruction of vena	02	General Surgery	62
64713	Neuroplasty, major perip	02	General Surgery	62
24201	Removal of foreign body	02	General Surgery	61
32150	Thoracotomy, major; wit	02	General Surgery	61
35601	Bypass graft, with other	02	General Surgery	61
45160	Excision of rectal tumor	02	General Surgery	61
19271	Excision of chest wall tu	02	General Surgery	60
27071	Partial excision (crateriz	02	General Surgery	60
48146	Pancreatectomy, distal,	02	General Surgery	60
28113	Ostectomy, complete ex	02	General Surgery	59
30520	Septoplasty or submuco	02	General Surgery	59
32310	Pleurectomy, parietal (s	02	General Surgery	59
45126	Pelvic exenteration for c	02	General Surgery	59
47015	Laparotomy, with aspira	02	General Surgery	59
55821	Prostatectomy (including	02	General Surgery	59
63688	Revision or removal of in	02	General Surgery	59
23615	Open treatment of proxi	02	General Surgery	58
26121	Fasciectomy, palm only,	02	General Surgery	58
30140	Submucous resection in	02	General Surgery	58
33883	Placement of proximal e	02	General Surgery	58
35539	Bypass graft, with vein; a	02	General Surgery	58
35540	Bypass graft, with vein; a	02	General Surgery	58
41120	Glossectomy; less than	02	General Surgery	58
47490	Percutaneous cholecyst	02	General Surgery	58
27137	Revision of total hip arth	02	General Surgery	57
27295	Disarticulation of hip	02	General Surgery	57
15335	Acellular dermal allograf	02	General Surgery	56
24495	Decompression fascioto	02	General Surgery	56
25112	Excision of ganglion, wri	02	General Surgery	56
33214	Upgrade of implanted pa	02	General Surgery	56
34001	Embolectomy or thromb	02	General Surgery	56
44322	Colostomy or skin level	02	General Surgery	56
46285	Surgical treatment of an	02	General Surgery	56
22830	Exploration of spinal fus	02	General Surgery	55
26720	Closed treatment of pha	02	General Surgery	55
48547	Duodenal exclusion with	02	General Surgery	55
26117	Radical resection of tum	02	General Surgery	54
35281	Repair blood vessel with	02	General Surgery	54
22015	Incision and drainage, o	02	General Surgery	53
27448	Osteotomy, femur, shaft	02	General Surgery	53
27888	Amputation, ankle, throu	02	General Surgery	53
32662	Thoracoscopy, surgical;	02	General Surgery	53
45114	Proctectomy, partial, wit	02	General Surgery	53
54405	Insertion of multi-compo	02	General Surgery	53
57284	Paravaginal defect repa	02	General Surgery	53
22310	Closed treatment of vert	02	General Surgery	52
35663	Bypass graft, with other	02	General Surgery	52
47142	Donor hepatectomy (inc	02	General Surgery	52
55831	Prostatectomy (including	02	General Surgery	52

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63085	Vertebral corpectomy (v	02	General Surgery	52
26440	Tenolysis, flexor tendon	02	General Surgery	51
27488	Removal of prosthesis, i	02	General Surgery	51
35901	Excision of infected graf	02	General Surgery	51
46761	Sphincteroplasty, anal, f	02	General Surgery	51
55041	Excision of hydrocele; b	02	General Surgery	51
57268	Repair of enterocele, va	02	General Surgery	51
60280	Excision of thyroglossal	02	General Surgery	51
63267	Laminectomy for excisio	02	General Surgery	51
27894	Decompression fascioto	02	General Surgery	50
33870	Transverse arch graft, w	02	General Surgery	50
38700	Suprahyoid lymphadene	02	General Surgery	50
48001	Placement of drains, pe	02	General Surgery	50
50236	Nephrectomy with total u	02	General Surgery	50
50543	Laparoscopy, surgical; p	02	General Surgery	50
50740	Ureteropyelostomy, ana	02	General Surgery	50
55150	Resection of scrotum	02	General Surgery	50
57283	Colpopexy, vaginal; intra	02	General Surgery	50
23140	Excision or curettage of	02	General Surgery	49
45113	Proctectomy, partial, wit	02	General Surgery	49
50548	Laparoscopy, surgical; r	02	General Surgery	49
57425	Laparoscopy, surgical, c	02	General Surgery	49
27514	Open treatment of femo	02	General Surgery	48
32402	Biopsy, pleura; open	02	General Surgery	48
35623	Bypass graft, with other	02	General Surgery	48
37605	Ligation; internal or com	02	General Surgery	48
43641	Vagotomy including pylc	02	General Surgery	48
64712	Neuroplasty, major perip	02	General Surgery	48
19342	Delayed insertion of bre	02	General Surgery	47
28193	Removal of foreign body	02	General Surgery	47
50380	Renal autotransplantatio	02	General Surgery	47
58951	Resection (initial) of ova	02	General Surgery	47
63077	Discectomy, anterior, wi	02	General Surgery	47
25020	Decompression fascioto	02	General Surgery	46
26765	Open treatment of distal	02	General Surgery	46
26770	Closed treatment of inte	02	General Surgery	46
27345	Excision of synovial cyst	02	General Surgery	46
35111	Direct repair of aneurysr	02	General Surgery	46
44211	Laparoscopy, surgical; c	02	General Surgery	46
47700	Exploration for congenit	02	General Surgery	46
58805	Drainage of ovarian cyst	02	General Surgery	46
60600	Excision of carotid body	02	General Surgery	46
62361	Implantation or replacen	02	General Surgery	46
64772	Transection or avulsion	02	General Surgery	46
66821	Discission of secondary	02	General Surgery	46
25000	Incision, extensor tendo	02	General Surgery	45
27507	Open treatment of femo	02	General Surgery	45
27892	Decompression fascioto	02	General Surgery	45
33945	Heart transplant, with or	02	General Surgery	45
37565	Ligation, internal jugular	02	General Surgery	45
63660	Revision or removal of s	02	General Surgery	45
47425	Choledochotomy or cho	02	General Surgery	44

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47712	Excision of bile duct tumor	02	General Surgery	44
49904	Omental flap, extra-abdominal	02	General Surgery	44
50280	Excision or unroofing of tumor	02	General Surgery	44
27235	Percutaneous skeletal fixation	02	General Surgery	43
27601	Decompression fasciotomy	02	General Surgery	43
33300	Repair of cardiac wound	02	General Surgery	43
39545	Imbrication of diaphragm	02	General Surgery	43
60521	Thymectomy, partial or total	02	General Surgery	43
61154	Burr hole(s) with evacuation	02	General Surgery	43
15155	Tissue cultured epidermal graft	02	General Surgery	42
15951	Excision, trochanteric prominence	02	General Surgery	42
27070	Partial excision (craterized)	02	General Surgery	42
32035	Thoracostomy; with rib resection	02	General Surgery	42
44157	Colectomy, total, abdominal	02	General Surgery	42
44158	Colectomy, total, abdominal	02	General Surgery	42
50225	Nephrectomy, including	02	General Surgery	42
51500	Excision of urachal cyst	02	General Surgery	42
54840	Excision of spermatocele	02	General Surgery	42
55110	Scrotal exploration	02	General Surgery	42
57200	Colporrhaphy, suture of	02	General Surgery	42
35216	Repair blood vessel, direct	02	General Surgery	42
21030	Excision of benign tumor	02	General Surgery	41
27138	Revision of total hip arthroplasty	02	General Surgery	41
28008	Fasciotomy, foot and/or ankle	02	General Surgery	41
29822	Arthroscopy, shoulder, surgical	02	General Surgery	41
33020	Pericardiotomy for removal	02	General Surgery	41
37140	Venous anastomosis, open	02	General Surgery	41
45108	Anorectal myomectomy	02	General Surgery	41
54522	Orchiectomy, partial	02	General Surgery	41
58900	Biopsy of ovary, unilateral	02	General Surgery	41
58550	Laparoscopy, surgical, video	02	General Surgery	41
15952	Excision, trochanteric prominence	02	General Surgery	40
27607	Incision (eg, osteomyelitis)	02	General Surgery	40
33223	Revision of skin pocket	02	General Surgery	40
33416	Ventriculomyotomy (-myotomy)	02	General Surgery	40
46258	Hemorrhoidectomy, internal	02	General Surgery	40
50542	Laparoscopy, surgical; abdominal	02	General Surgery	40
55842	Prostatectomy, retropubic	02	General Surgery	40
25609	Open treatment of distal	02	General Surgery	40
15823	Blepharoplasty, upper eyelid	02	General Surgery	39
25110	Excision, lesion of tendon	02	General Surgery	39
27360	Partial excision (craterized)	02	General Surgery	39
33463	Valvuloplasty, tricuspid valve	02	General Surgery	39
35121	Direct repair of aneurysm	02	General Surgery	39
43865	Revision of gastrojejunostomy	02	General Surgery	39
45563	Exploration, repair, and	02	General Surgery	39
51597	Pelvic exenteration, complete	02	General Surgery	39
15945	Excision, ischial pressure	02	General Surgery	38
21040	Excision of benign tumor	02	General Surgery	38
26070	Arthrotomy, with exploration	02	General Surgery	38
26356	Repair or advancement, tendon	02	General Surgery	38
33244	Removal of single or double	02	General Surgery	38

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43135	Diverticulectomy of hypc	02	General Surgery	38
47570	Laparoscopy, surgical; c	02	General Surgery	38
58954	Bilateral salpingo-oopho	02	General Surgery	38
64831	Suture of digital nerve, h	02	General Surgery	38
15740	Flap; island pedicle	02	General Surgery	37
23655	Closed treatment of sho	02	General Surgery	37
28092	Excision of lesion, tendc	02	General Surgery	37
28126	Resection, partial or con	02	General Surgery	37
57010	Colpotomy; with drainag	02	General Surgery	37
58152	Total abdominal hystere	02	General Surgery	37
61512	Craniectomy, trephinatic	02	General Surgery	37
63020	Laminotomy (hemilamin	02	General Surgery	37
64760	Transection or avulsion	02	General Surgery	37
23410	Repair of ruptured musc	02	General Surgery	36
23616	Open treatment of proxi	02	General Surgery	36
25260	Repair, tendon or muscl	02	General Surgery	36
26080	Arthrotomy, with explora	02	General Surgery	36
32036	Thoracostomy; with ope	02	General Surgery	36
48545	Pancreatorrhaphy for inj	02	General Surgery	36
50785	Ureteroneocystostomy; v	02	General Surgery	36
22325	Open treatment and/or r	02	General Surgery	35
22855	Removal of anterior inst	02	General Surgery	35
25118	Synovectomy, extensor	02	General Surgery	35
27438	Arthroplasty, patella; wit	02	General Surgery	35
35184	Repair, congenital arteri	02	General Surgery	35
37615	Ligation, major artery (e	02	General Surgery	35
43831	Gastrostomy, open; neo	02	General Surgery	35
50340	Recipient nephrectomy (	02	General Surgery	35
50900	Ureterorrhaphy, suture c	02	General Surgery	35
22610	Arthrodesis, posterior or	02	General Surgery	34
24516	Treatment of humeral sh	02	General Surgery	34
26034	Incision, bone cortex, ha	02	General Surgery	34
26455	Tenotomy, flexor, finger	02	General Surgery	34
26750	Closed treatment of dist	02	General Surgery	34
27193	Closed treatment of pelv	02	General Surgery	34
33875	Descending thoracic aor	02	General Surgery	34
42426	Excision of parotid tumo	02	General Surgery	34
48154	Pancreatectomy, proxim	02	General Surgery	34
54640	Orchiopexy, inguinal app	02	General Surgery	34
57270	Repair of enterocele, ab	02	General Surgery	34
19370	Open periprosthetic cap	02	General Surgery	33
25270	Repair, tendon or muscl	02	General Surgery	33
25900	Amputation, forearm, thi	02	General Surgery	33
27822	Open treatment of trima	02	General Surgery	33
27889	Ankle disarticulation	02	General Surgery	33
28153	Resection, condyle(s), d	02	General Surgery	33
31820	Surgical closure tracheo	02	General Surgery	33
43352	Esophagostomy, fistuliz	02	General Surgery	33
43410	Suture of esophageal w	02	General Surgery	33
47715	Excision of choledochal	02	General Surgery	33
15836	Excision, excessive skin	02	General Surgery	32
24685	Open treatment of ulnar	02	General Surgery	32

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26045	Fasciotomy, palmar (eg,	02	General Surgery	32
33120	Excision of intracardiac	02	General Surgery	32
37660	Ligation of common iliac	02	General Surgery	32
43850	Revision of gastroduode	02	General Surgery	32
45500	Proctoplasty; for stenosi	02	General Surgery	32
50500	Nephrorrhaphy, suture c	02	General Surgery	32
53445	Insertion of inflatable ure	02	General Surgery	32
55875	Transperineal placemen	02	General Surgery	32
26060	Tenotomy, percutaneous	02	General Surgery	31
26210	Excision or curettage of	02	General Surgery	31
26480	Transfer or transplant of	02	General Surgery	31
26531	Arthroplasty, metacarpo	02	General Surgery	31
28060	Fasciectomy, plantar fas	02	General Surgery	31
32900	Resection of ribs, extrap	02	General Surgery	31
33251	Operative ablation of su	02	General Surgery	31
33320	Suture repair of aorta or	02	General Surgery	31
34401	Thrombectomy, direct or	02	General Surgery	31
51880	Closure of cystostomy (s	02	General Surgery	31
56620	Vulvectomy simple; part	02	General Surgery	31
58400	Uterine suspension, with	02	General Surgery	31
33265	Endoscopy, surgical; op	02	General Surgery	31
33266	Endoscopy, surgical; op	02	General Surgery	31
24900	Amputation, arm through	02	General Surgery	30
27511	Open treatment of femo	02	General Surgery	30
28118	Ostectomy, calcaneus;	02	General Surgery	30
35560	Bypass graft, with vein;	02	General Surgery	30
35651	Bypass graft, with other	02	General Surgery	30
37616	Ligation, major artery (e	02	General Surgery	30
38101	Splenectomy; partial (se	02	General Surgery	30
51530	Cystotomy; for excision	02	General Surgery	30
66172	Fistulization of sclera fo	02	General Surgery	30
66180	Aqueous shunt to extrac	02	General Surgery	30
23500	Closed treatment of clav	02	General Surgery	29
26370	Repair or advancement	02	General Surgery	29
27303	Incision, deep, with oper	02	General Surgery	29
31360	Laryngectomy; total, with	02	General Surgery	29
33971	Removal of intra-aortic b	02	General Surgery	29
43634	Gastrectomy, partial, dis	02	General Surgery	29
45136	Excision of ileoanal rese	02	General Surgery	29
47511	Introduction of percutane	02	General Surgery	29
57307	Closure of rectovaginal f	02	General Surgery	29
62258	Removal of complete ce	02	General Surgery	29
64704	Neuroplasty; nerve of ha	02	General Surgery	29
69145	Excision soft tissue lesio	02	General Surgery	29
15750	Flap; neurovascular ped	02	General Surgery	28
15832	Excision, excessive skin	02	General Surgery	28
25606	Percutaneous skeletal fi	02	General Surgery	28
26991	Incision and drainage, p	02	General Surgery	28
28110	Ostectomy, partial excis	02	General Surgery	28
28160	Hemiphalangectomy or	02	General Surgery	28
32215	Pleural scarification for	02	General Surgery	28
35616	Bypass graft, with other	02	General Surgery	28

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37650	Ligation of femoral vein	02	General Surgery	28
43340	Esophagojejunostomy (v	02	General Surgery	28
63046	Laminectomy, facetecto	02	General Surgery	28
64818	Sympathectomy, lumbar	02	General Surgery	28
33542	Myocardial resection (eg	02	General Surgery	27
11960	Insertion of tissue expan	02	General Surgery	27
11970	Replacement of tissue e	02	General Surgery	27
26860	Arthrodesis, interphalan	02	General Surgery	27
27266	Closed treatment of pos	02	General Surgery	27
33218	Repair of single transver	02	General Surgery	27
33514	Coronary artery bypass,	02	General Surgery	27
35905	Excision of infected graf	02	General Surgery	27
51050	Cystolithotomy, cystoto	02	General Surgery	27
26442	Tenolysis, flexor tendon	02	General Surgery	26
26735	Open treatment of phala	02	General Surgery	26
27808	Closed treatment of bim	02	General Surgery	26
28510	Closed treatment of frac	02	General Surgery	26
35122	Direct repair of aneurysm	02	General Surgery	26
35522	Bypass graft, with vein; a	02	General Surgery	26
50081	Percutaneous nephrostom	02	General Surgery	26
51596	Cystectomy, complete, v	02	General Surgery	26
57120	Colpocleisis (Le Fort typ	02	General Surgery	26
57308	Closure of rectovaginal f	02	General Surgery	26
58263	Vaginal hysterectomy, fo	02	General Surgery	26
15756	Free muscle or myocuta	02	General Surgery	25
21615	Excision first and/or cerv	02	General Surgery	25
26236	Partial excision (crateriz	02	General Surgery	25
27248	Open treatment of great	02	General Surgery	25
27520	Closed treatment of pate	02	General Surgery	25
27524	Open treatment of patell	02	General Surgery	25
27640	Partial excision (crateriz	02	General Surgery	25
27759	Treatment of tibial shaft	02	General Surgery	25
31830	Revision of tracheostom	02	General Surgery	25
32654	Thoracoscopy, surgical;	02	General Surgery	25
33410	Replacement, aortic valv	02	General Surgery	25
34831	Open repair of infrarena	02	General Surgery	25
35361	Thromboendarterectomy	02	General Surgery	25
35521	Bypass graft, with vein; a	02	General Surgery	25
35533	Bypass graft, with vein; a	02	General Surgery	25
51525	Cystotomy; for excision	02	General Surgery	25
51800	Cystoplasty or cystouret	02	General Surgery	25
51900	Closure of vesicovagina	02	General Surgery	25
23430	Tenodesis of long tendo	02	General Surgery	24
26437	Realignment of extensor	02	General Surgery	24
26445	Tenolysis, extensor tend	02	General Surgery	24
27591	Amputation, thigh, throu	02	General Surgery	24
27610	Arthrotomy, ankle, includ	02	General Surgery	24
27641	Partial excision (crateriz	02	General Surgery	24
28288	Ostectomy, partial, exos	02	General Surgery	24
31750	Tracheoplasty; cervical	02	General Surgery	24
32488	Removal of lung, other t	02	General Surgery	24
32540	Extrapleural enucleation	02	General Surgery	24

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32851	Lung transplant, single;	02	General Surgery	24
33330	Insertion of graft, aorta c	02	General Surgery	24
36822	Insertion of cannula(s) fo	02	General Surgery	24
42826	Tonsillectomy, primary c	02	General Surgery	24
43121	Partial esophagectomy,	02	General Surgery	24
43124	Total or partial esophag	02	General Surgery	24
43405	Ligation or stapling at ga	02	General Surgery	24
45116	Proctectomy, partial, wit	02	General Surgery	24
46210	Cryptectomy; single	02	General Surgery	24
50541	Laparoscopy, surgical; a	02	General Surgery	24
58270	Vaginal hysterectomy, fo	02	General Surgery	24
58822	Drainage of ovarian abs	02	General Surgery	24
64702	Neuroplasty; digital, one	02	General Surgery	24
22010	Incision and drainage, o	02	General Surgery	23
15365	Tissue cultured allogene	02	General Surgery	23
19361	Breast reconstruction wi	02	General Surgery	23
26340	Manipulation, finger join	02	General Surgery	23
27385	Suture of quadriceps or	02	General Surgery	23
27535	Open treatment of tibial	02	General Surgery	23
35506	Bypass graft, with vein; c	02	General Surgery	23
38555	Excision of cystic hydror	02	General Surgery	23
41116	Excision, lesion of floor	02	General Surgery	23
41155	Glossectomy; composite	02	General Surgery	23
43101	Excision of lesion, esopl	02	General Surgery	23
50728	Revision of urinary-cuta	02	General Surgery	23
15630	Delay of flap or sectionir	02	General Surgery	22
19367	Breast reconstruction wi	02	General Surgery	22
24515	Open treatment of hume	02	General Surgery	22
26075	Arthrotomy, with explora	02	General Surgery	22
26350	Repair or advancement,	02	General Surgery	22
27230	Closed treatment of fem	02	General Surgery	22
27310	Arthrotomy, knee, with e	02	General Surgery	22
27347	Excision of lesion of me	02	General Surgery	22
27758	Open treatment of tibial	02	General Surgery	22
29876	Arthroscopy, knee, surg	02	General Surgery	22
33220	Repair of two transveno	02	General Surgery	22
33406	Replacement, aortic valv	02	General Surgery	22
33465	Replacement, tricuspid v	02	General Surgery	22
35207	Repair blood vessel, dire	02	General Surgery	22
35231	Repair blood vessel with	02	General Surgery	22
37600	Ligation; external carotic	02	General Surgery	22
42815	Excision branchial cleft	02	General Surgery	22
43331	Esophagomyotomy (Hel	02	General Surgery	22
43360	Gastrointestinal reconst	02	General Surgery	22
45135	Excision of rectal procid	02	General Surgery	22
47400	Hepaticotomy or hepatic	02	General Surgery	22
61343	Craniectomy, suboccipit	02	General Surgery	22
61518	Craniectomy for excision	02	General Surgery	22
25608	Open treatment of distal	02	General Surgery	22
15822	Blepharoplasty, upper e	02	General Surgery	21
26525	Capsulectomy or capsul	02	General Surgery	21
31225	Maxillectomy; without or	02	General Surgery	21

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32665	Thoracoscopy, surgical;	02	General Surgery	21
34451	Thrombectomy, direct or	02	General Surgery	21
35612	Bypass graft, with other	02	General Surgery	21
41135	Glossectomy; partial, wi	02	General Surgery	21
43310	Esophagoplasty (plastic	02	General Surgery	21
49220	Staging laparotomy for h	02	General Surgery	21
50630	Ureterolithotomy; lower e	02	General Surgery	21
50650	Ureterectomy, with blad	02	General Surgery	21
54410	Removal and replaceme	02	General Surgery	21
58240	Pelvic exenteration for g	02	General Surgery	21
60522	Thymectomy, partial or t	02	General Surgery	21
63017	Laminectomy with explo	02	General Surgery	21
11971	Removal of tissue expan	02	General Surgery	20
22590	Arthrodesis, posterior te	02	General Surgery	20
26410	Repair, extensor tendon	02	General Surgery	20
27305	Fasciotomy, iliotibial (ter	02	General Surgery	20
28173	Radical resection of tum	02	General Surgery	20
32815	Open closure of major b	02	General Surgery	20
35509	Bypass graft, with vein; e	02	General Surgery	20
35626	Bypass graft, with other	02	General Surgery	20
38381	Suture and/or ligation of	02	General Surgery	20
49501	Repair initial inguinal he	02	General Surgery	20
55810	Prostatectomy, perineal	02	General Surgery	20
58267	Vaginal hysterectomy, fo	02	General Surgery	20
20902	Bone graft, any donor ar	02	General Surgery	19
22100	Partial excision of poste	02	General Surgery	19
22850	Removal of posterior no	02	General Surgery	19
24500	Closed treatment of hum	02	General Surgery	19
26040	Fasciotomy, palmar (eg,	02	General Surgery	19
26746	Open treatment of articu	02	General Surgery	19
27252	Closed treatment of hip	02	General Surgery	19
27513	Open treatment of femo	02	General Surgery	19
27656	Repair, fascial defect of	02	General Surgery	19
30120	Excision or surgical plan	02	General Surgery	19
34832	Open repair of infrarena	02	General Surgery	19
35152	Direct repair of aneurysm	02	General Surgery	19
35870	Repair of graft-enteric fis	02	General Surgery	19
44156	Colectomy, total, abdom	02	General Surgery	19
45150	Division of stricture of re	02	General Surgery	19
46211	Cryptectomy; multiple (s	02	General Surgery	19
50727	Revision of urinary-cutan	02	General Surgery	19
51841	Anterior vesicourethrope	02	General Surgery	19
61313	Craniectomy or cranioto	02	General Surgery	19
62141	Cranioplasty for skull de	02	General Surgery	19
63015	Laminectomy with explo	02	General Surgery	19
63650	Percutaneous implantati	02	General Surgery	19
64790	Excision of neurofibroma	02	General Surgery	19
15922	Excision, coccygeal pres	02	General Surgery	18
19364	Breast reconstruction wi	02	General Surgery	18
20922	Fascia lata graft; by incis	02	General Surgery	18
25024	Decompression fascioto	02	General Surgery	18
26025	Drainage of palmar burs	02	General Surgery	18

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26037	Decompressive fasciotomy	02	General Surgery	18
26520	Capsulectomy or capsulotomy	02	General Surgery	18
26850	Arthrodesis, metacarpophalangeal	02	General Surgery	18
27265	Closed treatment of posterior ankle impingement	02	General Surgery	18
27340	Excision, prepatellar bursa	02	General Surgery	18
28490	Closed treatment of fracture of distal radius and ulna	02	General Surgery	18
30124	Excision dermoid cyst, nose	02	General Surgery	18
32491	Removal of lung, other than lobectomy	02	General Surgery	18
40500	Vermilionectomy (lip shaft)	02	General Surgery	18
43425	Closure of esophagostomy	02	General Surgery	18
44316	Continent ileostomy (Kock pouch)	02	General Surgery	18
45805	Closure of rectovesical fistula	02	General Surgery	18
52500	Transurethral resection of prostate	02	General Surgery	18
54830	Excision of local lesion of vulva	02	General Surgery	18
57107	Vaginectomy, partial	02	General Surgery	18
62192	Creation of shunt; subarachnoid	02	General Surgery	18
63600	Creation of lesion of spine	02	General Surgery	18
15620	Delay of flap or sectioning	02	General Surgery	17
19324	Mammoplasty, augmented	02	General Surgery	17
19355	Correction of inverted nipple	02	General Surgery	17
22102	Partial excision of posterior	02	General Surgery	17
22808	Arthrodesis, anterior, for	02	General Surgery	17
22810	Arthrodesis, anterior, for	02	General Surgery	17
24120	Excision or curettage of	02	General Surgery	17
24650	Closed treatment of radius	02	General Surgery	17
27091	Removal of hip prosthesis	02	General Surgery	17
27752	Closed treatment of tibia	02	General Surgery	17
28315	Sesamoidectomy, first toe	02	General Surgery	17
31800	Suture of tracheal wound	02	General Surgery	17
32486	Removal of lung, other than lobectomy	02	General Surgery	17
35363	Thromboendarterectomy	02	General Surgery	17
41130	Glossectomy; hemiglossectomy	02	General Surgery	17
43651	Laparoscopy, surgical; transabdominal	02	General Surgery	17
43652	Laparoscopy, surgical; transperitoneal	02	General Surgery	17
47381	Ablation, open, of one or more	02	General Surgery	17
47530	Revision and/or reinsertion	02	General Surgery	17
49582	Repair umbilical hernia, open	02	General Surgery	17
51845	Abdomino-vaginal vesicostomy	02	General Surgery	17
57210	Colpoperineorrhaphy, surgical	02	General Surgery	17
58670	Laparoscopy, surgical; video	02	General Surgery	17
62140	Cranioplasty for skull defect	02	General Surgery	17
63040	Laminotomy (hemilaminectomy)	02	General Surgery	17
63707	Repair of dural/cerebrospinal	02	General Surgery	17
51990	Laparoscopy, surgical; ultrasonic	02	General Surgery	17
14350	Filletted finger or toe flap	02	General Surgery	16
21025	Excision of bone (eg, for	02	General Surgery	16
21044	Excision of malignant tumor	02	General Surgery	16
22224	Osteotomy of spine, including	02	General Surgery	16
22595	Arthrodesis, posterior	02	General Surgery	16
26615	Open treatment of metatarsal	02	General Surgery	16
27030	Arthrotomy, hip, with drainage	02	General Surgery	16
27090	Removal of hip prosthesis	02	General Surgery	16

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31365	Laryngectomy; total, with	02	General Surgery	16
32140	Thoracotomy, major; with	02	General Surgery	16
32800	Repair lung hernia through	02	General Surgery	16
33015	Tube pericardiostomy	02	General Surgery	16
33305	Repair of cardiac wound	02	General Surgery	16
33400	Valvuloplasty, aortic valve	02	General Surgery	16
34471	Thrombectomy, direct or	02	General Surgery	16
35510	Bypass graft, with vein; c	02	General Surgery	16
35636	Bypass graft, with other	02	General Surgery	16
40525	Excision of lip; full thickn	02	General Surgery	16
42120	Resection of palate or ep	02	General Surgery	16
45121	Proctectomy, complete (	02	General Surgery	16
47802	U-tube hepaticocenterost	02	General Surgery	16
51575	Cystectomy, complete; v	02	General Surgery	16
53852	Transurethral destructio	02	General Surgery	16
57287	Removal or revision of s	02	General Surgery	16
57520	Conization of cervix, with	02	General Surgery	16
63005	Laminectomy with explo	02	General Surgery	16
66170	Fistulization of sclera for	02	General Surgery	16
50250	Ablation, open, one or m	02	General Surgery	15
20900	Bone graft, any donor ar	02	General Surgery	15
23130	Acromioplasty or acromi	02	General Surgery	15
24341	Repair, tendon or muscl	02	General Surgery	15
25295	Tenolysis, flexor or exte	02	General Surgery	15
25500	Closed treatment of radi	02	General Surgery	15
26135	Synovectomy, metacarp	02	General Surgery	15
26180	Excision of tendon, finger	02	General Surgery	15
27750	Closed treatment of tibia	02	General Surgery	15
27780	Closed treatment of prox	02	General Surgery	15
28100	Excision or curettage of	02	General Surgery	15
28308	Osteotomy, with or witho	02	General Surgery	15
32853	Lung transplant, double	02	General Surgery	15
33417	Aortoplasty (gusset) for	02	General Surgery	15
33861	Ascending aorta graft, w	02	General Surgery	15
34520	Cross-over vein graft to	02	General Surgery	15
35189	Repair, acquired or trau	02	General Surgery	15
35537	Bypass graft, with vein; a	02	General Surgery	15
35538	Bypass graft, with vein; a	02	General Surgery	15
35694	Transposition and/or rei	02	General Surgery	15
42810	Excision branchial cleft c	02	General Surgery	15
43510	Gastrotomy; with esopha	02	General Surgery	15
45120	Proctectomy, complete (	02	General Surgery	15
54690	Laparoscopy, surgical; c	02	General Surgery	15
56630	Vulvectomy, radical, par	02	General Surgery	15
64716	Neuroplasty and/or trans	02	General Surgery	15
64792	Excision of neurofibroma	02	General Surgery	15
67950	Canthoplasty (reconstru	02	General Surgery	15
15650	Transfer, intermediate, c	02	General Surgery	14
19272	Excision of chest wall tu	02	General Surgery	14
21630	Radical resection of ster	02	General Surgery	14
21632	Radical resection of ster	02	General Surgery	14
21700	Division of scalenus anti	02	General Surgery	14

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22849	Reinsertion of spinal fixa	02	General Surgery	14
25240	Excision distal ulna parti	02	General Surgery	14
25920	Disarticulation through v	02	General Surgery	14
26540	Repair of collateral ligam	02	General Surgery	14
26605	Closed treatment of met	02	General Surgery	14
27250	Closed treatment of hip	02	General Surgery	14
27498	Decompression fascioto	02	General Surgery	14
27530	Closed treatment of tibia	02	General Surgery	14
28285	Correction, hammertoe	02	General Surgery	14
31614	Tracheostoma revision;	02	General Surgery	14
32445	Removal of lung, total p	02	General Surgery	14
32664	Thoracoscopy, surgical;	02	General Surgery	14
35501	Bypass graft, with vein;	02	General Surgery	14
40530	Resection of lip, more th	02	General Surgery	14
43123	Partial esophagectomy,	02	General Surgery	14
49500	Repair initial inguinal he	02	General Surgery	14
49600	Repair of small omphalo	02	General Surgery	14
49606	Repair of large omphalo	02	General Surgery	14
53500	Urethrolisis, transvagina	02	General Surgery	14
62220	Creation of shunt; ventri	02	General Surgery	14
63012	Laminectomy with remo	02	General Surgery	14
64581	Incision for implantation	02	General Surgery	14
64782	Excision of neuroma; ha	02	General Surgery	14
67255	Scleral reinforcement (s	02	General Surgery	14
69150	Radical excision externa	02	General Surgery	14
51992	Laparoscopy, surgical; s	02	General Surgery	14
57295	Revision (including remo	02	General Surgery	14
21502	Incision and drainage, d	02	General Surgery	13
22305	Closed treatment of vert	02	General Surgery	13
25023	Decompression fascioto	02	General Surgery	13
25116	Radical excision of burs	02	General Surgery	13
26727	Percutaneous skeletal fi	02	General Surgery	13
27496	Decompression fascioto	02	General Surgery	13
28104	Excision or curettage of	02	General Surgery	13
28220	Tenolysis, flexor, foot; si	02	General Surgery	13
33050	Excision of pericardial c	02	General Surgery	13
35548	Bypass graft, with vein;	02	General Surgery	13
40816	Excision of lesion of mu	02	General Surgery	13
41113	Excision of lesion of ton	02	General Surgery	13
42305	Drainage of abscess; pa	02	General Surgery	13
50400	Pyeloplasty (Foley Y-pye	02	General Surgery	13
58545	Laparoscopy, surgical, r	02	General Surgery	13
63200	Laminectomy, with relea	02	General Surgery	13
63655	Laminectomy for implan	02	General Surgery	13
35211	Repair blood vessel, dire	02	General Surgery	13
20694	Removal, under anesthe	02	General Surgery	12
21390	Open treatment of orbita	02	General Surgery	12
22326	Open treatment and/or r	02	General Surgery	12
25290	Tenotomy, open, flexor	02	General Surgery	12
25927	Transmetacarpal amput	02	General Surgery	12
26433	Repair of extensor tende	02	General Surgery	12
27075	Radical resection of tum	02	General Surgery	12

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27334	Arthrotomy, with synove	02	General Surgery	12
27536	Open treatment of tibial	02	General Surgery	12
27604	Incision and drainage, le	02	General Surgery	12
27870	Arthrodesis, ankle, open	02	General Surgery	12
28108	Excision or curettage of	02	General Surgery	12
28525	Open treatment of fractu	02	General Surgery	12
29873	Arthroscopy, knee, surg	02	General Surgery	12
29879	Arthroscopy, knee, surg	02	General Surgery	12
32200	Pneumonostomy; with o	02	General Surgery	12
32820	Major reconstruction, ch	02	General Surgery	12
33031	Pericardiectomy, subtot	02	General Surgery	12
33322	Suture repair of aorta or	02	General Surgery	12
33545	Repair of postinfarction	02	General Surgery	12
35563	Bypass graft, with vein;	02	General Surgery	12
40654	Repair lip, full thickness	02	General Surgery	12
43100	Excision of lesion, esopl	02	General Surgery	12
43300	Esophagoplasty (plastic	02	General Surgery	12
45820	Closure of rectourethral	02	General Surgery	12
50810	Ureterosigmoidostomy,	02	General Surgery	12
51565	Cystectomy, partial, with	02	General Surgery	12
51960	Enterocystoplasty, includ	02	General Surgery	12
52647	Laser coagulation of pro	02	General Surgery	12
53440	Sling operation for corre	02	General Surgery	12
54550	Exploration for undesce	02	General Surgery	12
63270	Laminectomy for excisio	02	General Surgery	12
63741	Creation of shunt, lumba	02	General Surgery	12
66185	Revision of aqueous shu	02	General Surgery	12
77776	Interstitial radiation sour	02	General Surgery	12
15610	Delay of flap or sectionir	02	General Surgery	11
15760	Graft; composite (eg, ful	02	General Surgery	11
21235	Graft; ear cartilage, aut	02	General Surgery	11
21510	Incision, deep, with open	02	General Surgery	11
24363	Arthroplasty, elbow; with	02	General Surgery	11
25210	Carpectomy; one bone	02	General Surgery	11
26535	Arthroplasty, interphalar	02	General Surgery	11
26567	Osteotomy; phalanx of f	02	General Surgery	11
26725	Closed treatment of pha	02	General Surgery	11
27062	Excision; trochanteric bu	02	General Surgery	11
27840	Closed treatment of ank	02	General Surgery	11
30117	Excision or destruction (	02	General Surgery	11
32905	Thoracoplasty, Schede f	02	General Surgery	11
33243	Removal of single or du	02	General Surgery	11
33536	Coronary artery bypass,	02	General Surgery	11
33916	Pulmonary endarterecto	02	General Surgery	11
39200	Excision of mediastinal c	02	General Surgery	11
39531	Repair, diaphragmatic h	02	General Surgery	11
40814	Excision of lesion of mu	02	General Surgery	11
44127	Enterectomy, resection	02	General Surgery	11
49580	Repair umbilical hernia,	02	General Surgery	11
50700	Ureteroplasty, plastic op	02	General Surgery	11
55873	Cryosurgical ablation of	02	General Surgery	11
58920	Wedge resection or bise	02	General Surgery	11

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63276	Laminectomy for biopsy,	02	General Surgery	11
69120	Excision external ear; co	02	General Surgery	11
25607	Open treatment of distal	02	General Surgery	11
46710	Repair of ileoanal pouch	02	General Surgery	10
58541	Laparoscopy, surgical, s	02	General Surgery	10
15757	Free skin flap with micro	02	General Surgery	10
15953	Excision, trochanteric pr	02	General Surgery	10
20690	Application of a uniplane	02	General Surgery	10
21026	Excision of bone (eg, fo	02	General Surgery	10
23331	Removal of foreign body	02	General Surgery	10
24545	Open treatment of hume	02	General Surgery	10
25025	Decompression fasciotom	02	General Surgery	10
25560	Closed treatment of radi	02	General Surgery	10
25622	Closed treatment of carp	02	General Surgery	10
27060	Excision; ischial bursa	02	General Surgery	10
27238	Closed treatment of inte	02	General Surgery	10
27435	Capsulotomy, posterior	02	General Surgery	10
27650	Repair, primary, open or	02	General Surgery	10
27760	Closed treatment of me	02	General Surgery	10
28022	Arthrotomy, including ex	02	General Surgery	10
28024	Arthrotomy, including ex	02	General Surgery	10
28290	Correction, hallux valgus	02	General Surgery	10
28400	Closed treatment of calc	02	General Surgery	10
32658	Thoracoscopy, surgical;	02	General Surgery	10
37160	Venous anastomosis, op	02	General Surgery	10
41153	Glossectomy; composite	02	General Surgery	10
42890	Limited pharyngectomy	02	General Surgery	10
43108	Total or near total esoph	02	General Surgery	10
47371	Laparoscopy, surgical, a	02	General Surgery	10
49605	Repair of large omphalo	02	General Surgery	10
50080	Percutaneous nephrostom	02	General Surgery	10
52640	Transurethral resection;	02	General Surgery	10
54535	Orchiectomy, radical, fo	02	General Surgery	10
55530	Excision of varicocele or	02	General Surgery	10
62143	Replacement of bone fla	02	General Surgery	10
62256	Removal of complete ce	02	General Surgery	10
64868	Anastomosis; facial-hyp	02	General Surgery	10
58542	Laparoscopy, surgical, s	02	General Surgery	10
33548	Surgical ventricular rest	02	General Surgery	10
38780	Retroperitoneal transab	02	General Surgery	9
46712	Repair of ileoanal pouch	02	General Surgery	9
15833	Excision, excessive skin	02	General Surgery	9
21045	Excision of malignant tu	02	General Surgery	9
22114	Partial excision of verteb	02	General Surgery	9
22800	Arthrodesis, posterior, fo	02	General Surgery	9
24665	Open treatment of radia	02	General Surgery	9
24670	Closed treatment of ulna	02	General Surgery	9
25280	Lengthening or shortenin	02	General Surgery	9
25545	Open treatment of ulnar	02	General Surgery	9
26030	Drainage of palmar burs	02	General Surgery	9
26140	Synovectomy, proximal	02	General Surgery	9
26510	Cross intrinsic transfer,	02	General Surgery	9

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26548	Repair and reconstructio	02	General Surgery	9
26591	Repair, intrinsic muscles	02	General Surgery	9
26740	Closed treatment of artic	02	General Surgery	9
27078	Radical resection of tum	02	General Surgery	9
27122	Acetabuloplasty; resecti	02	General Surgery	9
27499	Decompression fasciotom	02	General Surgery	9
27792	Open treatment of distal	02	General Surgery	9
27893	Decompression fasciotom	02	General Surgery	9
28300	Osteotomy; calcaneus (c	02	General Surgery	9
29888	Arthroscopically aided a	02	General Surgery	9
31588	Laryngoplasty, not other	02	General Surgery	9
33238	Removal of permanent t	02	General Surgery	9
33335	Insertion of graft, aorta c	02	General Surgery	9
35002	Direct repair of aneurysm	02	General Surgery	9
40650	Repair lip, full thickness	02	General Surgery	9
40652	Repair lip, full thickness	02	General Surgery	9
41017	Extraoral incision and dr	02	General Surgery	9
43113	Total or near total esoph	02	General Surgery	9
43361	Gastrointestinal reconst	02	General Surgery	9
43855	Revision of gastroduode	02	General Surgery	9
46760	Sphincteroplasty, anal, f	02	General Surgery	9
50600	Ureterotomy with explor	02	General Surgery	9
50815	Ureterocolon conduit, in	02	General Surgery	9
55120	Removal of foreign body	02	General Surgery	9
61500	Craniectomy; with excisi	02	General Surgery	9
61590	Infratemporal pre-auricu	02	General Surgery	9
64857	Suture of major peripher	02	General Surgery	9
65125	Modification of ocular im	02	General Surgery	9
67900	Repair of brow ptosis (s	02	General Surgery	9
69631	Tympanoplasty without m	02	General Surgery	9
69930	Cochlear device implant	02	General Surgery	9
77761	Intracavitary radiation sc	02	General Surgery	9
15770	Graft; derma-fat-fascia	02	General Surgery	8
15781	Dermabrasion; segment	02	General Surgery	8
15834	Excision, excessive skin	02	General Surgery	8
19325	Mammoplasty, augment	02	General Surgery	8
21142	Reconstruction midface.	02	General Surgery	8
21282	Lateral canthopexy	02	General Surgery	8
21820	Closed treatment of ster	02	General Surgery	8
22214	Osteotomy of spine, pos	02	General Surgery	8
23440	Resection or transplanta	02	General Surgery	8
23605	Closed treatment of pro	02	General Surgery	8
24000	Arthrotomy, elbow, inclu	02	General Surgery	8
24605	Treatment of closed elbo	02	General Surgery	8
25215	Carpectomy; all bones c	02	General Surgery	8
25825	Arthrodesis, wrist; with a	02	General Surgery	8
26200	Excision or curettage of	02	General Surgery	8
26230	Partial excision (crateriz	02	General Surgery	8
26235	Partial excision (crateriz	02	General Surgery	8
26775	Closed treatment of inte	02	General Surgery	8
27065	Excision of bone cyst or	02	General Surgery	8
27194	Closed treatment of pelv	02	General Surgery	8

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27331	Arthrotomy, knee; includ	02	General Surgery	8
27823	Open treatment of trima	02	General Surgery	8
29871	Arthroscopy, knee, surg	02	General Surgery	8
30115	Excision, nasal polyp(s),	02	General Surgery	8
31780	Excision tracheal stenosis	02	General Surgery	8
31825	Surgical closure trachea	02	General Surgery	8
33886	Placement of distal exte	02	General Surgery	8
34501	Valvuloplasty, femoral ve	02	General Surgery	8
35112	Direct repair of aneurysm	02	General Surgery	8
35549	Bypass graft, with vein; r	02	General Surgery	8
37181	Venous anastomosis, op	02	General Surgery	8
41150	Glossectomy; composite	02	General Surgery	8
42425	Excision of parotid tumor	02	General Surgery	8
47701	Portoenterostomy (eg, K	02	General Surgery	8
48500	Marsupialization of panc	02	General Surgery	8
50045	Nephrotomy, with explor	02	General Surgery	8
50290	Excision of perinephric c	02	General Surgery	8
50405	Pyeloplasty (Foley Y-pye	02	General Surgery	8
54512	Excision of extraparench	02	General Surgery	8
61548	Hypophysectomy or exc	02	General Surgery	8
63001	Laminectomy with explo	02	General Surgery	8
63282	Laminectomy for biopsy	02	General Surgery	8
64755	Transection or avulsion	02	General Surgery	8
67923	Repair of entropion; exc	02	General Surgery	8
58548	Laparoscopy, surgical, v	02	General Surgery	8
15758	Free fascial flap with mic	02	General Surgery	7
15845	Graft for facial nerve par	02	General Surgery	7
20912	Cartilage graft; nasal se	02	General Surgery	7
20955	Bone graft with microvas	02	General Surgery	7
21029	Removal by contouring c	02	General Surgery	7
21208	Osteoplasty, facial bone	02	General Surgery	7
21365	Open treatment of comp	02	General Surgery	7
21825	Open treatment of stern	02	General Surgery	7
22318	Open treatment and/or r	02	General Surgery	7
23332	Removal of foreign body	02	General Surgery	7
23570	Closed treatment of sca	02	General Surgery	7
23630	Open treatment of great	02	General Surgery	7
23935	Incision, deep, with oper	02	General Surgery	7
24579	Open treatment of hume	02	General Surgery	7
24600	Treatment of closed elbo	02	General Surgery	7
24920	Amputation, arm througl	02	General Surgery	7
25515	Open treatment of radia	02	General Surgery	7
25575	Open treatment of radia	02	General Surgery	7
26110	Arthrotomy with biopsy;	02	General Surgery	7
26536	Arthroplasty, interphalan	02	General Surgery	7
26608	Percutaneous skeletal fi	02	General Surgery	7
26776	Percutaneous skeletal fi	02	General Surgery	7
27380	Suture of infrapatellar te	02	General Surgery	7
27580	Arthrodesis, knee, any t	02	General Surgery	7
27816	Closed treatment of trim	02	General Surgery	7
27829	Open treatment of distal	02	General Surgery	7
28270	Capsulotomy; metatarsc	02	General Surgery	7

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29820	Arthroscopy, shoulder, s	02	General Surgery	7
29870	Arthroscopy, knee, diagn	02	General Surgery	7
30150	Rhinectomy; partial	02	General Surgery	7
31611	Construction of tracheoe	02	General Surgery	7
31785	Excision of tracheal tum	02	General Surgery	7
32151	Thoracotomy, major; wit	02	General Surgery	7
35021	Direct repair of aneurysr	02	General Surgery	7
35188	Repair, acquired or trau	02	General Surgery	7
35518	Bypass graft, with vein; r	02	General Surgery	7
36835	Insertion of Thomas shu	02	General Surgery	7
43118	Partial esophagectomy,	02	General Surgery	7
43420	Closure of esophagosto	02	General Surgery	7
50800	Ureteroenterostomy, dir	02	General Surgery	7
50825	Continent diversion, incl	02	General Surgery	7
51570	Cystectomy, complete; (	02	General Surgery	7
52450	Transurethral incision of	02	General Surgery	7
53446	Removal of inflatable ur	02	General Surgery	7
54120	Amputation of penis; pa	02	General Surgery	7
54406	Removal of all compone	02	General Surgery	7
54408	Repair of component(s)	02	General Surgery	7
55815	Prostatectomy, perineal	02	General Surgery	7
56633	Vulvectomy, radical, cor	02	General Surgery	7
57110	Vaginectomy, complete	02	General Surgery	7
57556	Excision of cervical stum	02	General Surgery	7
61886	Insertion or replacement	02	General Surgery	7
62142	Removal of bone flap or	02	General Surgery	7
63303	Vertebral corpectomy (v	02	General Surgery	7
63710	Dural graft, spinal	02	General Surgery	7
63744	Replacement, irrigation	02	General Surgery	7
64776	Excision of neuroma; dig	02	General Surgery	7
67904	Repair of blepharoptosis	02	General Surgery	7
69641	Tympanoplasty with mas	02	General Surgery	7
58554	Laparoscopy, surgical, v	02	General Surgery	6
15835	Excision, excessive skin	02	General Surgery	6
21047	Excision of benign tumo	02	General Surgery	6
21462	Open treatment of mand	02	General Surgery	6
23200	Radical resection for tun	02	General Surgery	6
23515	Open treatment of clavic	02	General Surgery	6
23620	Closed treatment of grea	02	General Surgery	6
23665	Closed treatment of sho	02	General Surgery	6
23900	Interthoracoscapular am	02	General Surgery	6
24102	Arthrotomy, elbow; with	02	General Surgery	6
24655	Closed treatment of radi	02	General Surgery	6
25105	Arthrotomy, wrist joint; w	02	General Surgery	6
25130	Excision or curettage of	02	General Surgery	6
25259	Manipulation, wrist, unde	02	General Surgery	6
25312	Tendon transplantation	02	General Surgery	6
25332	Arthroplasty, wrist, with	02	General Surgery	6
25650	Closed treatment of ulna	02	General Surgery	6
26476	Lengthening of tendon, e	02	General Surgery	6
26785	Open treatment of interp	02	General Surgery	6
27076	Radical resection of tum	02	General Surgery	6

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27079	Radical resection of tum	02	General Surgery	6
27497	Decompression fascioto	02	General Surgery	6
27635	Excision or curettage of	02	General Surgery	6
27788	Closed treatment of dist	02	General Surgery	6
28052	Arthrotomy with biopsy;	02	General Surgery	6
28080	Excision, interdigital (Mc	02	General Surgery	6
28725	Arthrodesis; subtalar	02	General Surgery	6
29821	Arthroscopy, shoulder, s	02	General Surgery	6
30130	Excision inferior turbinat	02	General Surgery	6
32854	Lung transplant, double	02	General Surgery	6
32940	Pneumonolysis, extrape	02	General Surgery	6
33315	Cardiotomy, exploratory	02	General Surgery	6
33415	Resection or incision of	02	General Surgery	6
33501	Repair of coronary arter	02	General Surgery	6
33910	Pulmonary artery embol	02	General Surgery	6
35512	Bypass graft, with vein; s	02	General Surgery	6
35536	Bypass graft, with vein; s	02	General Surgery	6
35695	Transposition and/or rei	02	General Surgery	6
37606	Ligation; internal or com	02	General Surgery	6
42145	Palatopharyngoplasty (e	02	General Surgery	6
42950	Pharyngoplasty (plastic	02	General Surgery	6
49496	Repair, initial inguinal he	02	General Surgery	6
50660	Ureterectomy, total, ecto	02	General Surgery	6
50722	Ureterolysis for ovarian	02	General Surgery	6
50725	Ureterolysis for retrocav	02	General Surgery	6
52612	Transurethral resection	02	General Surgery	6
53040	Drainage of deep periure	02	General Surgery	6
53449	Repair of inflatable ureth	02	General Surgery	6
54125	Amputation of penis; con	02	General Surgery	6
55250	Vasectomy, unilateral or	02	General Surgery	6
57522	Conization of cervix, wit	02	General Surgery	6
61108	Twist drill hole(s) for sub	02	General Surgery	6
61315	Craniectomy or cranioto	02	General Surgery	6
61592	Orbitocranial zygomatic	02	General Surgery	6
61601	Resection or excision of	02	General Surgery	6
61616	Resection or excision of	02	General Surgery	6
61697	Surgery of complex intra	02	General Surgery	6
61710	Surgery of aneurysm, va	02	General Surgery	6
63102	Vertebral corpectomy (v	02	General Surgery	6
63281	Laminectomy for biopsy	02	General Surgery	6
63301	Vertebral corpectomy (v	02	General Surgery	6
63709	Repair of dural/cerebros	02	General Surgery	6
63740	Creation of shunt, lumba	02	General Surgery	6
64752	Transection or avulsion	02	General Surgery	6
64786	Excision of neuroma; sc	02	General Surgery	6
64856	Suture of major peripher	02	General Surgery	6
67917	Repair of ectropion; exte	02	General Surgery	6
67961	Excision and repair of ey	02	General Surgery	6
69637	Tympanoplasty with anti	02	General Surgery	6
77763	Intracavitary radiation sc	02	General Surgery	6
35271	Repair blood vessel with	02	General Surgery	6
20692	Application of a multipla	02	General Surgery	5

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20910	Cartilage graft; costochondral	02	General Surgery	5
20969	Free osteocutaneous flap	02	General Surgery	5
21034	Excision of malignant tumor	02	General Surgery	5
21198	Osteotomy, mandible, sub	02	General Surgery	5
21330	Open treatment of nasal	02	General Surgery	5
22533	Arthrodesis, lateral extra	02	General Surgery	5
23040	Arthrotomy, glenohumer	02	General Surgery	5
23101	Arthrotomy, acromioclav	02	General Surgery	5
23405	Tenotomy, shoulder are	02	General Surgery	5
23920	Disarticulation of should	02	General Surgery	5
24342	Reinsertion of ruptured l	02	General Surgery	5
24586	Open treatment of peria	02	General Surgery	5
24635	Open treatment of Mont	02	General Surgery	5
24666	Open treatment of radia	02	General Surgery	5
25040	Arthrotomy, radiocarpal	02	General Surgery	5
25230	Radial styloidectomy (se	02	General Surgery	5
25405	Repair of nonunion or m	02	General Surgery	5
25530	Closed treatment of ulna	02	General Surgery	5
26035	Decompression fingers	02	General Surgery	5
26426	Repair of extensor tend	02	General Surgery	5
26432	Closed treatment of dist	02	General Surgery	5
26485	Transfer or transplant of	02	General Surgery	5
26499	Correction claw finger, c	02	General Surgery	5
26593	Release, intrinsic muscl	02	General Surgery	5
27033	Arthrotomy, hip, includin	02	General Surgery	5
27066	Excision of bone cyst or	02	General Surgery	5
27146	Osteotomy, iliac, acetab	02	General Surgery	5
27246	Closed treatment of grea	02	General Surgery	5
27254	Open treatment of hip di	02	General Surgery	5
27290	Interpelviabdominal amp	02	General Surgery	5
27430	Quadricepsplasty (eg, B	02	General Surgery	5
27500	Closed treatment of fem	02	General Surgery	5
27818	Closed treatment of trim	02	General Surgery	5
27824	Closed treatment of frac	02	General Surgery	5
28020	Arthrotomy, including ex	02	General Surgery	5
28035	Release, tarsal tunnel (p	02	General Surgery	5
28086	Synovectomy, tendon sh	02	General Surgery	5
28175	Radical resection of tum	02	General Surgery	5
28292	Correction, hallux valgus	02	General Surgery	5
28304	Osteotomy, tarsal bones	02	General Surgery	5
28450	Treatment of tarsal bone	02	General Surgery	5
29850	Arthroscopically aided tr	02	General Surgery	5
29875	Arthroscopy, knee, surg	02	General Surgery	5
29877	Arthroscopy, knee, surg	02	General Surgery	5
29887	Arthroscopy, knee, surg	02	General Surgery	5
31390	Pharyngolaryngectomy,	02	General Surgery	5
31805	Suture of tracheal woun	02	General Surgery	5
32906	Thoracoplasty, Schede f	02	General Surgery	5
33140	Transmyocardial laser re	02	General Surgery	5
33414	Repair of left ventricular	02	General Surgery	5
33681	Closure of single ventric	02	General Surgery	5
34830	Open repair of infrarena	02	General Surgery	5

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35182	Repair, congenital arteri	02	General Surgery	5
35511	Bypass graft, with vein; s	02	General Surgery	5
35551	Bypass graft, with vein; s	02	General Surgery	5
40819	Excision of frenum, labia	02	General Surgery	5
42408	Excision of sublingual sa	02	General Surgery	5
42842	Radical resection of tons	02	General Surgery	5
42845	Radical resection of tons	02	General Surgery	5
42970	Control of nasopharynge	02	General Surgery	5
43020	Esophagotomy, cervical	02	General Surgery	5
43341	Esophagojejunostomy (v	02	General Surgery	5
43496	Free jejunum transfer wi	02	General Surgery	5
46762	Sphincteroplasty, anal, f	02	General Surgery	5
47144	Backbench standard pre	02	General Surgery	5
50040	Nephrostomy, nephrotom	02	General Surgery	5
50610	Ureterolithotomy; upper	02	General Surgery	5
50770	Transureteroureterostom	02	General Surgery	5
52630	Transurethral resection;	02	General Surgery	5
54680	Transplantation of testis	02	General Surgery	5
55175	Scrotoplasty; simple	02	General Surgery	5
58290	Vaginal hysterectomy, fo	02	General Surgery	5
58671	Laparoscopy, surgical; v	02	General Surgery	5
61140	Burr hole(s) or trephine;	02	General Surgery	5
61605	Resection or excision of	02	General Surgery	5
62145	Cranioplasty for skull de	02	General Surgery	5
62165	Neuroendoscopy, intrac	02	General Surgery	5
63266	Laminectomy for excisio	02	General Surgery	5
64575	Incision for implantation	02	General Surgery	5
66982	Extracapsular cataract r	02	General Surgery	5
69801	Labyrinthotomy, with or	02	General Surgery	5
33203	Insertion of epicardial el	02	General Surgery	4
15600	Delay of flap or sectionir	02	General Surgery	4
15838	Excision, excessive skin	02	General Surgery	4
21031	Excision of torus mandib	02	General Surgery	4
21046	Excision of benign tumo	02	General Surgery	4
21175	Reconstruction, bifronta	02	General Surgery	4
21244	Reconstruction of mand	02	General Surgery	4
21400	Closed treatment of frac	02	General Surgery	4
21810	Treatment of rib fracture	02	General Surgery	4
22220	Osteotomy of spine, incl	02	General Surgery	4
22327	Open treatment and/or r	02	General Surgery	4
22532	Arthrodesis, lateral extra	02	General Surgery	4
23105	Arthrotomy; glenohumer	02	General Surgery	4
23180	Partial excision (crateriz	02	General Surgery	4
23455	Capsulorrhaphy, anterio	02	General Surgery	4
24006	Arthrotomy of the elbow	02	General Surgery	4
24147	Partial excision (crateriz	02	General Surgery	4
24400	Osteotomy, humerus, w	02	General Surgery	4
25031	Incision and drainage, fo	02	General Surgery	4
25320	Capsulorrhaphy or recor	02	General Surgery	4
25400	Repair of nonunion or m	02	General Surgery	4
25445	Arthroplasty with prosthe	02	General Surgery	4
25810	Arthrodesis, wrist; with il	02	General Surgery	4

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26320	Removal of implant from	02	General Surgery	4
26357	Repair or advancement,	02	General Surgery	4
26500	Reconstruction of tendo	02	General Surgery	4
27036	Capsulectomy or capsul	02	General Surgery	4
27120	Acetabuloplasty; (eg, W	02	General Surgery	4
27217	Open treatment of anter	02	General Surgery	4
27220	Closed treatment of ace	02	General Surgery	4
27307	Tenotomy, percutaneous	02	General Surgery	4
27335	Arthrotomy, with synove	02	General Surgery	4
27350	Patellectomy or hemipat	02	General Surgery	4
27386	Suture of quadriceps or	02	General Surgery	4
27445	Arthroplasty, knee, hing	02	General Surgery	4
27705	Osteotomy; tibia	02	General Surgery	4
27827	Open treatment of fractu	02	General Surgery	4
27842	Closed treatment of ank	02	General Surgery	4
27848	Open treatment of ankle	02	General Surgery	4
28200	Repair, tendon, flexor, fo	02	General Surgery	4
28208	Repair, tendon, extenso	02	General Surgery	4
28230	Tenotomy, open, tendor	02	General Surgery	4
28289	Hallux rigidus correction	02	General Surgery	4
28306	Osteotomy, with or with	02	General Surgery	4
28415	Open treatment of calca	02	General Surgery	4
28515	Closed treatment of frac	02	General Surgery	4
29807	Arthroscopy, shoulder, s	02	General Surgery	4
29846	Arthroscopy, wrist, surgi	02	General Surgery	4
30400	Rhinoplasty, primary; lat	02	General Surgery	4
31040	Pterygomaxillary fossa s	02	General Surgery	4
31200	Ethmoidectomy; intranas	02	General Surgery	4
33130	Resection of external ca	02	General Surgery	4
33250	Operative ablation of su	02	General Surgery	4
33460	Valvectomy, tricuspid va	02	General Surgery	4
33502	Repair of anomalous co	02	General Surgery	4
33516	Coronary artery bypass,	02	General Surgery	4
33645	Direct or patch closure,	02	General Surgery	4
34530	Saphenopopliteal vein a	02	General Surgery	4
35311	Thromboendarterectomy	02	General Surgery	4
35691	Transposition and/or rei	02	General Surgery	4
38380	Suture and/or ligation of	02	General Surgery	4
42821	Tonsillectomy and aden	02	General Surgery	4
42894	Resection of pharyngea	02	General Surgery	4
43305	Esophagoplasty (plastic	02	General Surgery	4
43312	Esophagoplasty (plastic	02	General Surgery	4
46938	Cryosurgery of rectal tur	02	General Surgery	4
48020	Removal of pancreatic c	02	General Surgery	4
49492	Repair, initial inguinal he	02	General Surgery	4
50782	Ureteroneocystostomy; r	02	General Surgery	4
50783	Ureteroneocystostomy; r	02	General Surgery	4
50830	Urinary undiversion (eg,	02	General Surgery	4
50930	Closure of ureteroviscer	02	General Surgery	4
50947	Laparoscopy, surgical; u	02	General Surgery	4
51020	Cystotomy or cystostom	02	General Surgery	4
51080	Drainage of perivesical c	02	General Surgery	4

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51535	Cystotomy for excision,	02	General Surgery	4
53410	Urethroplasty, one-stage	02	General Surgery	4
53448	Removal and replaceme	02	General Surgery	4
55180	Scrotoplasty; complicat	02	General Surgery	4
56625	Vulvectomy simple; com	02	General Surgery	4
57220	Plastic operation on uret	02	General Surgery	4
57320	Closure of vesicovagina	02	General Surgery	4
58146	Myomectomy, excision o	02	General Surgery	4
58280	Vaginal hysterectomy, w	02	General Surgery	4
58600	Ligation or transection o	02	General Surgery	4
61460	Craniectomy, suboccipit	02	General Surgery	4
61501	Craniectomy; for osteom	02	General Surgery	4
61608	Resection or excision of	02	General Surgery	4
62225	Replacement or irrigatio	02	General Surgery	4
63051	Laminoplasty, cervical, v	02	General Surgery	4
63064	Costovertebral approach	02	General Surgery	4
63272	Laminectomy for excisio	02	General Surgery	4
63277	Laminectomy for biopsy,	02	General Surgery	4
64580	Incision for implantation	02	General Surgery	4
64766	Transection or avulsion	02	General Surgery	4
64771	Transection or avulsion	02	General Surgery	4
64809	Sympathectomy, thorac	02	General Surgery	4
64890	Nerve graft (includes ob	02	General Surgery	4
67914	Repair of ectropion; sutu	02	General Surgery	4
67935	Suture of recent wound,	02	General Surgery	4
69155	Radical excision externa	02	General Surgery	4
69633	Tympanoplasty without r	02	General Surgery	4
33507	Repair of anomalous (eg	02	General Surgery	3
20661	Application of halo, inclu	02	General Surgery	3
20924	Tendon graft, from a dis	02	General Surgery	3
21160	Reconstruction midface,	02	General Surgery	3
21196	Reconstruction of mand	02	General Surgery	3
21360	Open treatment of depre	02	General Surgery	3
21805	Open treatment of rib fra	02	General Surgery	3
22802	Arthrodesis, posterior, fo	02	General Surgery	3
22812	Arthrodesis, anterior, fo	02	General Surgery	3
23020	Capsular contracture rel	02	General Surgery	3
23106	Arthrotomy; sternoclavic	02	General Surgery	3
23182	Partial excision (crateriz	02	General Surgery	3
23210	Radical resection for tun	02	General Surgery	3
23550	Open treatment of acror	02	General Surgery	3
23585	Open treatment of scap	02	General Surgery	3
24101	Arthrotomy, elbow; with	02	General Surgery	3
24301	Muscle or tendon transfe	02	General Surgery	3
24505	Closed treatment of hun	02	General Surgery	3
24530	Closed treatment of sup	02	General Surgery	3
24615	Open treatment of acute	02	General Surgery	3
24925	Amputation, arm through	02	General Surgery	3
25035	Incision, deep, bone cor	02	General Surgery	3
25101	Arthrotomy, wrist joint; w	02	General Surgery	3
25628	Open treatment of carpa	02	General Surgery	3
25630	Closed treatment of car	02	General Surgery	3

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26449	Tenolysis, complex, exte	02	General Surgery	3
26450	Tenotomy, flexor, palm,	02	General Surgery	3
26460	Tenotomy, extensor, ha	02	General Surgery	3
26478	Lengthening of tendon, t	02	General Surgery	3
26483	Transfer or transplant of	02	General Surgery	3
26508	Release of thenar musc	02	General Surgery	3
26516	Capsulodesis, metacarp	02	General Surgery	3
26541	Reconstruction, collater	02	General Surgery	3
26545	Reconstruction, collater	02	General Surgery	3
26546	Repair non-union, metac	02	General Surgery	3
26565	Osteotomy; metacarpal,	02	General Surgery	3
26700	Closed treatment of met	02	General Surgery	3
26715	Open treatment of meta	02	General Surgery	3
26862	Arthrodesis, interphalan	02	General Surgery	3
27001	Tenotomy, adductor of h	02	General Surgery	3
27005	Tenotomy, hip flexor(s),	02	General Surgery	3
27052	Arthrotomy, with biopsy;	02	General Surgery	3
27098	Transfer, adductor to isc	02	General Surgery	3
27215	Open treatment of iliac s	02	General Surgery	3
27226	Open treatment of poste	02	General Surgery	3
27232	Closed treatment of fem	02	General Surgery	3
27325	Neurectomy, hamstring	02	General Surgery	3
27355	Excision or curettage of	02	General Surgery	3
27365	Radical resection of tum	02	General Surgery	3
27405	Repair, primary, torn liga	02	General Surgery	3
27422	Reconstruction of disloc	02	General Surgery	3
27470	Repair, nonunion or mal	02	General Surgery	3
27472	Repair, nonunion or mal	02	General Surgery	3
27501	Closed treatment of sup	02	General Surgery	3
27502	Closed treatment of fem	02	General Surgery	3
27510	Closed treatment of fem	02	General Surgery	3
27560	Closed treatment of pate	02	General Surgery	3
27612	Arthrotomy, posterior ca	02	General Surgery	3
27646	Radical resection of tum	02	General Surgery	3
27658	Repair, flexor tendon, le	02	General Surgery	3
27680	Tenolysis, flexor or exte	02	General Surgery	3
27685	Lengthening or shorteni	02	General Surgery	3
27691	Transfer or transplant of	02	General Surgery	3
27762	Closed treatment of mec	02	General Surgery	3
27810	Closed treatment of bim	02	General Surgery	3
27828	Open treatment of fractu	02	General Surgery	3
28054	Arthrotomy with biopsy;	02	General Surgery	3
28225	Tenolysis, extensor, foo	02	General Surgery	3
28232	Tenotomy, open, tendor	02	General Surgery	3
28234	Tenotomy, open, extens	02	General Surgery	3
28475	Closed treatment of met	02	General Surgery	3
29840	Arthroscopy, wrist, diagn	02	General Surgery	3
29844	Arthroscopy, wrist, surgi	02	General Surgery	3
30420	Rhinoplasty, primary; inc	02	General Surgery	3
30580	Repair fistula; oromaxilla	02	General Surgery	3
31020	Sinusotomy, maxillary (a	02	General Surgery	3
31050	Sinusotomy, sphenoid, v	02	General Surgery	3

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31395	Pharyngolaryngectomy,	02	General Surgery	3
31400	Arytenoidectomy or aryten	02	General Surgery	3
31755	Tracheoplasty; tracheop	02	General Surgery	3
31770	Bronchoplasty; graft rep	02	General Surgery	3
32810	Closure of chest wall fol	02	General Surgery	3
33236	Removal of permanent e	02	General Surgery	3
33237	Removal of permanent e	02	General Surgery	3
33404	Construction of apical-a	02	General Surgery	3
33420	Valvotomy, mitral valve;	02	General Surgery	3
33500	Repair of coronary arter	02	General Surgery	3
33720	Repair sinus of Valsalva	02	General Surgery	3
33917	Repair of pulmonary arte	02	General Surgery	3
33978	Removal of ventricular a	02	General Surgery	3
34051	Embolectomy or thromb	02	General Surgery	3
35276	Repair blood vessel with	02	General Surgery	3
35693	Transposition and/or rei	02	General Surgery	3
37180	Venous anastomosis, op	02	General Surgery	3
40527	Excision of lip; full thick	02	General Surgery	3
40818	Excision of mucosa of v	02	General Surgery	3
42235	Repair of anterior palate	02	General Surgery	3
42340	Sialolithotomy; parotid, e	02	General Surgery	3
42953	Pharyngoesophageal re	02	General Surgery	3
42955	Pharyngostomy (fistuliza	02	General Surgery	3
43045	Esophagotomy, thoracic	02	General Surgery	3
43350	Esophagostomy, fistuliza	02	General Surgery	3
43400	Ligation, direct, esophag	02	General Surgery	3
47140	Donor hepatectomy (inc	02	General Surgery	3
49495	Repair, initial inguinal he	02	General Surgery	3
50100	Transection or repositio	02	General Surgery	3
50130	Pyelotomy; with remova	02	General Surgery	3
50544	Laparoscopy, surgical; p	02	General Surgery	3
50860	Ureterostomy, transplan	02	General Surgery	3
50920	Closure of ureterocutane	02	General Surgery	3
51585	Cystectomy, complete, v	02	General Surgery	3
51980	Cutaneous vesicostomy	02	General Surgery	3
53010	Urethrotomy or urethros	02	General Surgery	3
53215	Urethrectomy, total, incl	02	General Surgery	3
53442	Removal or revision of s	02	General Surgery	3
53447	Removal and replaceme	02	General Surgery	3
54411	Removal and replaceme	02	General Surgery	3
54415	Removal of non-inflatab	02	General Surgery	3
54416	Removal and replaceme	02	General Surgery	3
54865	Exploration of epididymi	02	General Surgery	3
55535	Excision of varicocele or	02	General Surgery	3
55650	Vesiculectomy, any app	02	General Surgery	3
55801	Prostatectomy, perineal	02	General Surgery	3
56631	Vulvectomy, radical, par	02	General Surgery	3
57310	Closure of urethrovagina	02	General Surgery	3
57540	Excision of cervical stum	02	General Surgery	3
58673	Laparoscopy, surgical; v	02	General Surgery	3
58800	Drainage of ovarian cyst	02	General Surgery	3
59100	Hysterotomy, abdomina	02	General Surgery	3

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60605	Excision of carotid body	02	General Surgery	3
61519	Craniectomy for excision	02	General Surgery	3
61537	Craniotomy with elevatio	02	General Surgery	3
61563	Excision, intra and extra	02	General Surgery	3
61583	Craniofacial approach to	02	General Surgery	3
61600	Resection or excision of	02	General Surgery	3
61700	Surgery of simple intrac	02	General Surgery	3
63101	Vertebral corpectomy (v	02	General Surgery	3
63271	Laminectomy for excisio	02	General Surgery	3
63280	Laminectomy for biopsy	02	General Surgery	3
63287	Laminectomy for biopsy	02	General Surgery	3
63302	Vertebral corpectomy (v	02	General Surgery	3
64836	Suture of one nerve; uln	02	General Surgery	3
64885	Nerve graft (includes ob	02	General Surgery	3
66761	Iridotomy/iridectomy by	02	General Surgery	3
67228	Treatment of extensive e	02	General Surgery	3
67903	Repair of blepharoptosis	02	General Surgery	3
69140	Excision exostosis(es), e	02	General Surgery	3
69535	Resection temporal bon	02	General Surgery	3
77778	Interstitial radiation sour	02	General Surgery	3
58544	Laparoscopy, surgical, s	02	General Surgery	3
15788	Chemical peel, facial; ep	02	General Surgery	2
15837	Excision, excessive skin	02	General Surgery	2
19369	Breast reconstruction wi	02	General Surgery	2
21070	Coronoidectomy (separa	02	General Surgery	2
21089	Unlisted maxillofacial pr	02	General Surgery	2
21215	Graft, bone; mandible (in	02	General Surgery	2
21240	Arthroplasty, temporoma	02	General Surgery	2
21325	Open treatment of nasal	02	General Surgery	2
21337	Closed treatment of nas	02	General Surgery	2
21339	Open treatment of naso	02	General Surgery	2
21406	Open treatment of fractu	02	General Surgery	2
21407	Open treatment of fractu	02	General Surgery	2
21453	Closed treatment of mar	02	General Surgery	2
21470	Open treatment of comp	02	General Surgery	2
21705	Division of scalenus anti	02	General Surgery	2
22210	Osteotomy of spine, pos	02	General Surgery	2
22212	Osteotomy of spine, pos	02	General Surgery	2
23044	Arthrotomy, acromioclav	02	General Surgery	2
23100	Arthrotomy, glenohumer	02	General Surgery	2
23406	Tenotomy, shoulder are	02	General Surgery	2
23415	Coracoacromial ligamer	02	General Surgery	2
23466	Capsulorrhaphy, glenoh	02	General Surgery	2
23540	Closed treatment of acro	02	General Surgery	2
23670	Open treatment of shoul	02	General Surgery	2
23680	Open treatment of shoul	02	General Surgery	2
24138	Sequestrectomy (eg, for	02	General Surgery	2
24310	Tenotomy, open, elbow	02	General Surgery	2
24420	Osteoplasty, humerus (e	02	General Surgery	2
24430	Repair of nonunion or m	02	General Surgery	2
24435	Repair of nonunion or m	02	General Surgery	2
24535	Closed treatment of sup	02	General Surgery	2

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24576	Closed treatment of hum	02	General Surgery	2
24930	Amputation, arm through	02	General Surgery	2
25107	Arthrotomy, distal radiou	02	General Surgery	2
25301	Tenodesis at wrist; exte	02	General Surgery	2
25315	Flexor origin slide (eg, fo	02	General Surgery	2
25337	Reconstruction for stabl	02	General Surgery	2
25505	Closed treatment of radi	02	General Surgery	2
25525	Open treatment of radia	02	General Surgery	2
25565	Closed treatment of radi	02	General Surgery	2
25670	Open treatment of radio	02	General Surgery	2
25680	Closed treatment of tran	02	General Surgery	2
25820	Arthrodesis, wrist; limite	02	General Surgery	2
25905	Amputation, forearm, thi	02	General Surgery	2
25907	Amputation, forearm, thi	02	General Surgery	2
26130	Synovectomy, carpomet	02	General Surgery	2
26170	Excision of tendon, palm	02	General Surgery	2
26260	Radical resection, proxim	02	General Surgery	2
26373	Repair or advancement	02	General Surgery	2
26420	Repair, extensor tendon	02	General Surgery	2
26471	Tenodesis; of proximal i	02	General Surgery	2
26477	Shortening of tendon, ex	02	General Surgery	2
26517	Capsulodesis, metacarp	02	General Surgery	2
26530	Arthroplasty, metacarp	02	General Surgery	2
26560	Repair of syndactyly (we	02	General Surgery	2
26561	Repair of syndactyly (we	02	General Surgery	2
26641	Closed treatment of carp	02	General Surgery	2
26650	Percutaneous skeletal fi	02	General Surgery	2
26665	Open treatment of carpo	02	General Surgery	2
26705	Closed treatment of met	02	General Surgery	2
26742	Closed treatment of artic	02	General Surgery	2
26755	Closed treatment of dist	02	General Surgery	2
26756	Percutaneous skeletal fi	02	General Surgery	2
26844	Arthrodesis, carpometac	02	General Surgery	2
27006	Tenotomy, abductors an	02	General Surgery	2
27035	Denervation, hip joint, in	02	General Surgery	2
27105	Transfer paraspinal mus	02	General Surgery	2
27187	Prophylactic treatment (	02	General Surgery	2
27200	Closed treatment of coc	02	General Surgery	2
27253	Open treatment of hip di	02	General Surgery	2
27357	Excision or curettage of	02	General Surgery	2
27391	Tenotomy, open, hamst	02	General Surgery	2
27407	Repair, primary, torn liga	02	General Surgery	2
27418	Anterior tibial tuberclepla	02	General Surgery	2
27425	Lateral retinacular releas	02	General Surgery	2
27427	Ligamentous reconstruc	02	General Surgery	2
27440	Arthroplasty, knee, tibial	02	General Surgery	2
27495	Prophylactic treatment (	02	General Surgery	2
27503	Closed treatment of sup	02	General Surgery	2
27508	Closed treatment of fem	02	General Surgery	2
27550	Closed treatment of kne	02	General Surgery	2
27556	Open treatment of knee	02	General Surgery	2
27654	Repair, secondary, Achi	02	General Surgery	2

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27664	Repair, extensor tendon	02	General Surgery	2
27690	Transfer or transplant of	02	General Surgery	2
27695	Repair, primary, disrupted	02	General Surgery	2
27702	Arthroplasty, ankle; with	02	General Surgery	2
27704	Removal of ankle implant	02	General Surgery	2
27707	Osteotomy; fibula	02	General Surgery	2
27709	Osteotomy; tibia and fibula	02	General Surgery	2
27766	Open treatment of medial	02	General Surgery	2
27825	Closed treatment of fracture	02	General Surgery	2
28114	Ostectomy, complete excision	02	General Surgery	2
28293	Correction, hallux valgus	02	General Surgery	2
28296	Correction, hallux valgus	02	General Surgery	2
28312	Osteotomy, shortening,	02	General Surgery	2
28406	Percutaneous skeletal fixation	02	General Surgery	2
28495	Closed treatment of fracture	02	General Surgery	2
28505	Open treatment of fracture	02	General Surgery	2
28705	Arthrodesis; pantalar	02	General Surgery	2
28730	Arthrodesis, midtarsal or	02	General Surgery	2
28755	Arthrodesis, great toe; in	02	General Surgery	2
29805	Arthroscopy, shoulder, c	02	General Surgery	2
29825	Arthroscopy, shoulder, s	02	General Surgery	2
29837	Arthroscopy, elbow, surg	02	General Surgery	2
29862	Arthroscopy, hip, surgical	02	General Surgery	2
30118	Excision or destruction (o	02	General Surgery	2
30410	Rhinoplasty, primary; co	02	General Surgery	2
30465	Repair of nasal vestibula	02	General Surgery	2
31030	Sinusotomy, maxillary (a	02	General Surgery	2
31032	Sinusotomy, maxillary (a	02	General Surgery	2
31070	Sinusotomy frontal; exte	02	General Surgery	2
31205	Ethmoidectomy; extrana	02	General Surgery	2
31368	Laryngectomy; subtotal	02	General Surgery	2
31375	Partial laryngectomy (he	02	General Surgery	2
31781	Excision tracheal stenosis	02	General Surgery	2
32661	Thoracoscopy, surgical;	02	General Surgery	2
33403	Valvuloplasty, aortic valve	02	General Surgery	2
33422	Valvotomy, mitral valve;	02	General Surgery	2
33475	Replacement, pulmonary	02	General Surgery	2
33496	Repair of non-structural	02	General Surgery	2
33503	Repair of anomalous co	02	General Surgery	2
33504	Repair of anomalous co	02	General Surgery	2
33647	Repair of atrial septal de	02	General Surgery	2
33730	Complete repair of anoma	02	General Surgery	2
33820	Repair of patent ductus	02	General Surgery	2
33922	Transection of pulmonary	02	General Surgery	2
33977	Removal of ventricular a	02	General Surgery	2
34510	Venous valve transpositi	02	General Surgery	2
35022	Direct repair of aneurysm	02	General Surgery	2
35246	Repair blood vessel with	02	General Surgery	2
35516	Bypass graft, with vein; s	02	General Surgery	2
38382	Suture and/or ligation of	02	General Surgery	2
41007	Intraoral incision and dra	02	General Surgery	2
41008	Intraoral incision and dra	02	General Surgery	2

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41145	Glossectomy; complete	02	General Surgery	2
41874	Alveoloplasty, each quad	02	General Surgery	2
42140	Uvulectomy, excision of	02	General Surgery	2
42450	Excision of sublingual gl	02	General Surgery	2
42500	Plastic repair of salivary	02	General Surgery	2
42505	Plastic repair of salivary	02	General Surgery	2
42725	Incision and drainage ab	02	General Surgery	2
42844	Radical resection of tons	02	General Surgery	2
43313	Esophagoplasty for cong	02	General Surgery	2
43401	Transection of esophagi	02	General Surgery	2
45825	Closure of rectourethral	02	General Surgery	2
47141	Donor hepatectomy (inc	02	General Surgery	2
49906	Free omental flap with n	02	General Surgery	2
50060	Nephrolithotomy; remov	02	General Surgery	2
50135	Pyelotomy; complicated	02	General Surgery	2
51520	Cystotomy; for simple ex	02	General Surgery	2
51820	Cystourethroplasty with	02	General Surgery	2
53230	Excision of urethral dive	02	General Surgery	2
53235	Excision of urethral dive	02	General Surgery	2
53400	Urethroplasty; first stage	02	General Surgery	2
53415	Urethroplasty, transpubi	02	General Surgery	2
53502	Urethrorrhaphy, suture c	02	General Surgery	2
53515	Urethrorrhaphy, suture c	02	General Surgery	2
54300	Plastic operation of peni	02	General Surgery	2
54440	Plastic operation of peni	02	General Surgery	2
54560	Exploration for undesce	02	General Surgery	2
54650	Orchiopexy, abdominal	02	General Surgery	2
54860	Epididymectomy; unilate	02	General Surgery	2
55720	Prostatotomy, external c	02	General Surgery	2
55812	Prostatectomy, perineal	02	General Surgery	2
55865	Exposure of prostate, ar	02	General Surgery	2
57230	Plastic repair of urethro	02	General Surgery	2
57289	Pereyra procedure, inclu	02	General Surgery	2
57530	Trachelectomy (cerviced	02	General Surgery	2
57545	Excision of cervical stum	02	General Surgery	2
57550	Excision of cervical stum	02	General Surgery	2
57700	Cerclage of uterine cerv	02	General Surgery	2
58145	Myomectomy, excision c	02	General Surgery	2
58275	Vaginal hysterectomy, w	02	General Surgery	2
58291	Vaginal hysterectomy, fo	02	General Surgery	2
58750	Tubotubal anastomosis	02	General Surgery	2
60281	Excision of thyroglossal	02	General Surgery	2
61215	Insertion of subcutaneou	02	General Surgery	2
61304	Craniectomy or cranioto	02	General Surgery	2
61314	Craniectomy or cranioto	02	General Surgery	2
61320	Craniectomy or cranioto	02	General Surgery	2
61530	Craniectomy, bone flap	02	General Surgery	2
61543	Craniotomy with elevatic	02	General Surgery	2
61576	Transoral approach to s	02	General Surgery	2
61580	Craniofacial approach to	02	General Surgery	2
61606	Resection or excision of	02	General Surgery	2
61618	Secondary repair of dura	02	General Surgery	2

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61619	Secondary repair of dura	02	General Surgery	2
61680	Surgery of intracranial a	02	General Surgery	2
61684	Surgery of intracranial a	02	General Surgery	2
62100	Craniotomy for repair of	02	General Surgery	2
62200	Ventriculocisternostomy	02	General Surgery	2
63011	Laminectomy with explo	02	General Surgery	2
63016	Laminectomy with explo	02	General Surgery	2
63055	Transpedicular approac	02	General Surgery	2
63265	Laminectomy for excisio	02	General Surgery	2
63286	Laminectomy for biopsy	02	General Surgery	2
63307	Vertebral corpectomy (v	02	General Surgery	2
64761	Transection or avulsion	02	General Surgery	2
64763	Transection or avulsion	02	General Surgery	2
64804	Sympathectomy, cervicc	02	General Surgery	2
64834	Suture of one nerve; har	02	General Surgery	2
64835	Suture of one nerve; me	02	General Surgery	2
64861	Suture of; brachial plexu	02	General Surgery	2
64864	Suture of facial nerve; e	02	General Surgery	2
65420	Excision or transpositio	02	General Surgery	2
66985	Insertion of intraocular l	02	General Surgery	2
67040	Vitrectomy, mechanical,	02	General Surgery	2
67880	Construction of intermar	02	General Surgery	2
67908	Repair of blepharoptosis	02	General Surgery	2
67916	Repair of ectropion; exc	02	General Surgery	2
67973	Reconstruction of eyelid	02	General Surgery	2
68750	Conjunctivorhinostomy (	02	General Surgery	2
69440	Middle ear exploration th	02	General Surgery	2
69502	Mastoidectomy; comple	02	General Surgery	2
69505	Mastoidectomy; modifie	02	General Surgery	2
69620	Myringoplasty (surgery o	02	General Surgery	2
69645	Tympanoplasty with mas	02	General Surgery	2
69661	Stapedectomy or staped	02	General Surgery	2
69714	Implantation, osseointeg	02	General Surgery	2
69740	Suture facial nerve, intra	02	General Surgery	2
69806	Endolymphatic sac oper	02	General Surgery	2
69905	Labyrinthectomy; transc	02	General Surgery	2
92986	Percutaneous balloon va	02	General Surgery	2
58543	Laparoscopy, surgical, s	02	General Surgery	2
57296	Revision (including remo	02	General Surgery	1
33675	Closure of multiple vent	02	General Surgery	1
15789	Chemical peel, facial; de	02	General Surgery	1
19368	Breast reconstruction wi	02	General Surgery	1
20150	Excision of epiphyseal b	02	General Surgery	1
20693	Adjustment or revision o	02	General Surgery	1
20805	Replantation, forearm (in	02	General Surgery	1
20822	Replantation, digit, exclu	02	General Surgery	1
20824	Replantation, thumb (inc	02	General Surgery	1
20827	Replantation, thumb (inc	02	General Surgery	1
21048	Excision of benign tumo	02	General Surgery	1
21110	Application of interdenta	02	General Surgery	1
21182	Reconstruction of orbita	02	General Surgery	1
21206	Osteotomy, maxilla, seg	02	General Surgery	1

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21210	Graft, bone; nasal, maxil	02	General Surgery	1
21247	Reconstruction of mand	02	General Surgery	1
21249	Reconstruction of mand	02	General Surgery	1
21260	Periorbital osteotomies t	02	General Surgery	1
21335	Open treatment of nasa	02	General Surgery	1
21336	Open treatment of nasa	02	General Surgery	1
21346	Open treatment of naso	02	General Surgery	1
21347	Open treatment of naso	02	General Surgery	1
21386	Open treatment of orbita	02	General Surgery	1
21387	Open treatment of orbita	02	General Surgery	1
21436	Open treatment of crani	02	General Surgery	1
21461	Open treatment of mand	02	General Surgery	1
21465	Open treatment of mand	02	General Surgery	1
21610	Costotransversectomy (	02	General Surgery	1
21616	Excision first and/or cer	02	General Surgery	1
21685	Hyoid myotomy and sus	02	General Surgery	1
21720	Division of sternocleidor	02	General Surgery	1
21740	Reconstructive repair of	02	General Surgery	1
22101	Partial excision of poste	02	General Surgery	1
22319	Open treatment and/or r	02	General Surgery	1
22548	Arthrodesis, anterior tra	02	General Surgery	1
22804	Arthrodesis, posterior, fo	02	General Surgery	1
22818	Kyphectomy, circumfere	02	General Surgery	1
23035	Incision, bone cortex (eg	02	General Surgery	1
23107	Arthrotomy, glenohumer	02	General Surgery	1
23125	Claviculectomy; total	02	General Surgery	1
23156	Excision or curettage of	02	General Surgery	1
23170	Sequestrectomy (eg, for	02	General Surgery	1
23172	Sequestrectomy (eg, for	02	General Surgery	1
23174	Sequestrectomy (eg, for	02	General Surgery	1
23184	Partial excision (crateriz	02	General Surgery	1
23190	Ostectomy of scapula, p	02	General Surgery	1
23220	Radical resection of bon	02	General Surgery	1
23395	Muscle transfer, any typ	02	General Surgery	1
23450	Capsulorrhaphy, anterio	02	General Surgery	1
23465	Capsulorrhaphy, glenoh	02	General Surgery	1
23485	Osteotomy, clavicle, with	02	General Surgery	1
23625	Closed treatment of grea	02	General Surgery	1
23660	Open treatment of acute	02	General Surgery	1
23675	Closed treatment of sho	02	General Surgery	1
24126	Excision or curettage of	02	General Surgery	1
24130	Excision, radial head	02	General Surgery	1
24136	Sequestrectomy (eg, for	02	General Surgery	1
24140	Partial excision (crateriz	02	General Surgery	1
24145	Partial excision (crateriz	02	General Surgery	1
24149	Radical resection of cap	02	General Surgery	1
24332	Tenolysis, triceps	02	General Surgery	1
24340	Tenodesis of biceps ten	02	General Surgery	1
24344	Reconstruction lateral co	02	General Surgery	1
24345	Repair medial collateral	02	General Surgery	1
24360	Arthroplasty, elbow; with	02	General Surgery	1
24365	Arthroplasty, radial head	02	General Surgery	1

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24366	Arthroplasty, radial head	02	General Surgery	1
24538	Percutaneous skeletal fixation	02	General Surgery	1
24546	Open treatment of humeral	02	General Surgery	1
24575	Open treatment of humeral	02	General Surgery	1
24577	Closed treatment of humeral	02	General Surgery	1
24587	Open treatment of periarthral	02	General Surgery	1
24620	Closed treatment of Morison	02	General Surgery	1
24800	Arthrodesis, elbow joint;	02	General Surgery	1
25001	Incision, flexor tendon sheath	02	General Surgery	1
25100	Arthrotomy, wrist joint; with	02	General Surgery	1
25119	Synovectomy, extensor	02	General Surgery	1
25120	Excision or curettage of	02	General Surgery	1
25145	Sequestrectomy (eg, for	02	General Surgery	1
25150	Partial excision (crateriz	02	General Surgery	1
25170	Radical resection for tumor	02	General Surgery	1
25250	Removal of wrist prosthesis	02	General Surgery	1
25263	Repair, tendon or muscle	02	General Surgery	1
25265	Repair, tendon or muscle	02	General Surgery	1
25272	Repair, tendon or muscle	02	General Surgery	1
25360	Osteotomy; ulna	02	General Surgery	1
25390	Osteoplasty, radius OR	02	General Surgery	1
25394	Osteoplasty, carpal bone	02	General Surgery	1
25415	Repair of nonunion or mal	02	General Surgery	1
25425	Repair of defect with aut	02	General Surgery	1
25431	Repair of nonunion of car	02	General Surgery	1
25440	Repair of nonunion, scap	02	General Surgery	1
25441	Arthroplasty with prosthesis	02	General Surgery	1
25444	Arthroplasty with prosthesis	02	General Surgery	1
25574	Open treatment of radial	02	General Surgery	1
25652	Open treatment of ulnar	02	General Surgery	1
25660	Closed treatment of radi	02	General Surgery	1
25800	Arthrodesis, wrist; comp	02	General Surgery	1
25909	Amputation, forearm, thro	02	General Surgery	1
25924	Disarticulation through w	02	General Surgery	1
25929	Transmetacarpal amput	02	General Surgery	1
25931	Transmetacarpal amput	02	General Surgery	1
26105	Arthrotomy with biopsy;	02	General Surgery	1
26185	Sesamoidectomy, thumb	02	General Surgery	1
26262	Radical resection, distal	02	General Surgery	1
26352	Repair or advancement,	02	General Surgery	1
26390	Excision flexor tendon, v	02	General Surgery	1
26415	Excision of extensor ten	02	General Surgery	1
26496	Opponensplasty; other r	02	General Surgery	1
26550	Pollicization of a digit	02	General Surgery	1
26556	Transfer, free toe joint, v	02	General Surgery	1
26580	Repair cleft hand	02	General Surgery	1
26587	Reconstruction of polyda	02	General Surgery	1
26596	Excision of constricting	02	General Surgery	1
26670	Closed treatment of carp	02	General Surgery	1
26676	Percutaneous skeletal fi	02	General Surgery	1
27000	Tenotomy, adductor of h	02	General Surgery	1
27054	Arthrotomy with synovec	02	General Surgery	1

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27100	Transfer external oblique	02	General Surgery	1
27110	Transfer iliopsoas; to gra	02	General Surgery	1
27147	Osteotomy, iliac, acetab	02	General Surgery	1
27161	Osteotomy, femoral nec	02	General Surgery	1
27165	Osteotomy, intertrochan	02	General Surgery	1
27170	Bone graft, femoral head	02	General Surgery	1
27178	Open treatment of slippe	02	General Surgery	1
27222	Closed treatment of ace	02	General Surgery	1
27228	Open treatment of aceta	02	General Surgery	1
27240	Closed treatment of inte	02	General Surgery	1
27258	Open treatment of spon	02	General Surgery	1
27284	Arthrodesis, hip joint (inc	02	General Surgery	1
27306	Tenotomy, percutaneous	02	General Surgery	1
27326	Neurectomy, popliteal (c	02	General Surgery	1
27332	Arthrotomy, with excisio	02	General Surgery	1
27333	Arthrotomy, with excisio	02	General Surgery	1
27390	Tenotomy, open, hamstr	02	General Surgery	1
27393	Lengthening of hamstrin	02	General Surgery	1
27403	Arthrotomy with meniscu	02	General Surgery	1
27409	Repair, primary, torn liga	02	General Surgery	1
27428	Ligamentous reconstruc	02	General Surgery	1
27437	Arthroplasty, patella; wit	02	General Surgery	1
27441	Arthroplasty, knee, tibial	02	General Surgery	1
27450	Osteotomy, femur, shaft	02	General Surgery	1
27454	Osteotomy, multiple, wit	02	General Surgery	1
27455	Osteotomy, proximal tibi	02	General Surgery	1
27465	Osteoplasty, femur; sho	02	General Surgery	1
27509	Percutaneous skeletal fi	02	General Surgery	1
27540	Open treatment of interc	02	General Surgery	1
27645	Radical resection of tum	02	General Surgery	1
27652	Repair, primary, open or	02	General Surgery	1
27659	Repair, flexor tendon, le	02	General Surgery	1
27696	Repair, primary, disrupte	02	General Surgery	1
27700	Arthroplasty, ankle;	02	General Surgery	1
27715	Osteoplasty, tibia and fib	02	General Surgery	1
27724	Repair of nonunion or m	02	General Surgery	1
27730	Arrest, epiphyseal (epipl	02	General Surgery	1
27745	Prophylactic treatment (	02	General Surgery	1
27784	Open treatment of proxim	02	General Surgery	1
27831	Closed treatment of prox	02	General Surgery	1
28010	Tenotomy, percutaneous	02	General Surgery	1
28011	Tenotomy, percutaneous	02	General Surgery	1
28050	Arthrotomy with biopsy;	02	General Surgery	1
28072	Synovectomy; metatars	02	General Surgery	1
28088	Synovectomy, tendon sh	02	General Surgery	1
28130	Talectomy (astragalecto	02	General Surgery	1
28210	Repair, tendon, extenso	02	General Surgery	1
28238	Reconstruction (advanc	02	General Surgery	1
28250	Division of plantar fascia	02	General Surgery	1
28313	Reconstruction, angular	02	General Surgery	1
28344	Reconstruction, toe(s); p	02	General Surgery	1
28405	Closed treatment of calc	02	General Surgery	1

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28420	Open treatment of calca	02	General Surgery	1
28445	Open treatment of talus	02	General Surgery	1
28540	Closed treatment of tars	02	General Surgery	1
28555	Open treatment of tarsi	02	General Surgery	1
28600	Closed treatment of tars	02	General Surgery	1
28715	Arthrodesis; triple	02	General Surgery	1
28735	Arthrodesis, midtarsal o	02	General Surgery	1
28737	Arthrodesis, with tendon	02	General Surgery	1
28740	Arthrodesis, midtarsal o	02	General Surgery	1
28750	Arthrodesis, great toe; n	02	General Surgery	1
29804	Arthroscopy, temporoma	02	General Surgery	1
29806	Arthroscopy, shoulder, s	02	General Surgery	1
29819	Arthroscopy, shoulder, s	02	General Surgery	1
29834	Arthroscopy, elbow, surg	02	General Surgery	1
29845	Arthroscopy, wrist, surgi	02	General Surgery	1
29856	Arthroscopically aided tr	02	General Surgery	1
29882	Arthroscopy, knee, surg	02	General Surgery	1
29895	Arthroscopy, ankle (tibi	02	General Surgery	1
29897	Arthroscopy, ankle (tibi	02	General Surgery	1
29898	Arthroscopy, ankle (tibi	02	General Surgery	1
30125	Excision dermoid cyst, n	02	General Surgery	1
30435	Rhinoplasty, secondary;	02	General Surgery	1
30450	Rhinoplasty, secondary;	02	General Surgery	1
30462	Rhinoplasty for nasal de	02	General Surgery	1
30540	Repair choanal atresia;	02	General Surgery	1
30630	Repair nasal septal perf	02	General Surgery	1
31075	Sinusotomy frontal; tran	02	General Surgery	1
31084	Sinusotomy frontal; oblit	02	General Surgery	1
31085	Sinusotomy frontal; oblit	02	General Surgery	1
31201	Ethmoidectomy; intranas	02	General Surgery	1
31367	Laryngectomy; subtotal	02	General Surgery	1
31370	Partial laryngectomy (he	02	General Surgery	1
31587	Laryngoplasty, cricoid sp	02	General Surgery	1
31760	Tracheoplasty; intrathora	02	General Surgery	1
31775	Bronchoplasty; excision	02	General Surgery	1
31786	Excision of tracheal tum	02	General Surgery	1
32660	Thoracoscopy, surgical;	02	General Surgery	1
32852	Lung transplant, single;	02	General Surgery	1
33261	Operative ablation of ve	02	General Surgery	1
33310	Cardiotomy, exploratory	02	General Surgery	1
33412	Replacement, aortic valv	02	General Surgery	1
33468	Tricuspid valve repositio	02	General Surgery	1
33471	Valvotomy, pulmonary v	02	General Surgery	1
33478	Outflow tract augmentat	02	General Surgery	1
33600	Closure of atrioventricul	02	General Surgery	1
33602	Closure of semilunar val	02	General Surgery	1
33608	Repair of complex cardi	02	General Surgery	1
33690	Banding of pulmonary a	02	General Surgery	1
33702	Repair sinus of Valsalva	02	General Surgery	1
33710	Repair sinus of Valsalva	02	General Surgery	1
33764	Shunt; central, with pros	02	General Surgery	1
33766	Shunt; superior vena ca	02	General Surgery	1

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33767	Shunt; superior vena ca	02	General Surgery	1
33770	Repair of transposition c	02	General Surgery	1
33780	Repair of transposition c	02	General Surgery	1
33840	Excision of coarctation c	02	General Surgery	1
33845	Excision of coarctation c	02	General Surgery	1
33853	Repair of hypoplastic or	02	General Surgery	1
33974	Removal of intra-aortic b	02	General Surgery	1
35508	Bypass graft, with vein; c	02	General Surgery	1
35526	Bypass graft, with vein; s	02	General Surgery	1
35645	Bypass graft, with other	02	General Surgery	1
36261	Revision of implanted in	02	General Surgery	1
37145	Venous anastomosis, op	02	General Surgery	1
37790	Penile venous occlusive	02	General Surgery	1
40700	Plastic repair of cleft lip/	02	General Surgery	1
40840	Vestibuloplasty; anterior	02	General Surgery	1
41015	Extraoral incision and dr	02	General Surgery	1
41114	Excision of lesion of ton	02	General Surgery	1
41140	Glossectomy; complete	02	General Surgery	1
41520	Frenoplasty (surgical rev	02	General Surgery	1
42107	Excision, lesion of palate	02	General Surgery	1
42205	Palatoplasty for cleft pal	02	General Surgery	1
42409	Marsupialization of subli	02	General Surgery	1
42508	Parotid duct diversion, b	02	General Surgery	1
42510	Parotid duct diversion, b	02	General Surgery	1
42600	Closure salivary fistula	02	General Surgery	1
42820	Tonsillectomy and aden	02	General Surgery	1
42831	Adenoidectomy, primary	02	General Surgery	1
42836	Adenoidectomy, second	02	General Surgery	1
42962	Control oropharyngeal h	02	General Surgery	1
43116	Partial esophagectomy,	02	General Surgery	1
43314	Esophagoplasty for cong	02	General Surgery	1
46716	Repair of low imperforat	02	General Surgery	1
46730	Repair of high imperfora	02	General Surgery	1
46735	Repair of high imperfora	02	General Surgery	1
47136	Liver allotransplantation	02	General Surgery	1
49610	Repair of omphalocele (	02	General Surgery	1
50075	Nephrolithotomy; remov	02	General Surgery	1
50520	Closure of nephrocutane	02	General Surgery	1
50525	Closure of nephroviscer	02	General Surgery	1
50540	Symphysiotomy for hors	02	General Surgery	1
50620	Ureterolithotomy; middle	02	General Surgery	1
50840	Replacement of all or pa	02	General Surgery	1
50845	Cutaneous appendico-v	02	General Surgery	1
50940	Deligation of ureter	02	General Surgery	1
50948	Laparoscopy, surgical; u	02	General Surgery	1
51065	Cystotomy, with calculus	02	General Surgery	1
51580	Cystectomy, complete, v	02	General Surgery	1
51940	Closure, exstrophy of bl	02	General Surgery	1
52400	Cystourethroscopy with	02	General Surgery	1
52606	Transurethral fulguratio	02	General Surgery	1
53085	Drainage of perineal urin	02	General Surgery	1
53210	Urethrectomy, total, incl	02	General Surgery	1

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53250	Excision of bulbourethra	02	General Surgery	1
53430	Urethroplasty, reconstru	02	General Surgery	1
53444	Insertion of tandem cuff	02	General Surgery	1
53505	Urethrorrhaphy, suture c	02	General Surgery	1
53510	Urethrorrhaphy, suture c	02	General Surgery	1
54326	One stage distal hyosp	02	General Surgery	1
54360	Plastic operation on pen	02	General Surgery	1
54380	Plastic operation on pen	02	General Surgery	1
54401	Insertion of penile prosth	02	General Surgery	1
54600	Reduction of torsion of t	02	General Surgery	1
55400	Vasovasostomy, vasova	02	General Surgery	1
55550	Laparoscopy, surgical, v	02	General Surgery	1
55605	Vesiculotomy; complicat	02	General Surgery	1
55680	Excision of Mullerian du	02	General Surgery	1
55725	Prostatotomy, external c	02	General Surgery	1
56632	Vulvectomy, radical, par	02	General Surgery	1
56634	Vulvectomy, radical, cor	02	General Surgery	1
56637	Vulvectomy, radical, cor	02	General Surgery	1
56640	Vulvectomy, radical, cor	02	General Surgery	1
57109	Vaginectomy, partial ren	02	General Surgery	1
57112	Vaginectomy, complete	02	General Surgery	1
57291	Construction of artificial	02	General Surgery	1
57330	Closure of vesicovagina	02	General Surgery	1
58285	Vaginal hysterectomy, ra	02	General Surgery	1
58410	Uterine suspension, with	02	General Surgery	1
58752	Tubouterine implantation	02	General Surgery	1
58770	Salpingostomy (salpingo	02	General Surgery	1
58820	Drainage of ovarian abs	02	General Surgery	1
58825	Transposition, ovary(s)	02	General Surgery	1
59120	Surgical treatment of ec	02	General Surgery	1
59150	Laparoscopic treatment	02	General Surgery	1
59151	Laparoscopic treatment	02	General Surgery	1
59812	Treatment of incomplete	02	General Surgery	1
61105	Twist drill hole for subdu	02	General Surgery	1
61120	Burr hole(s) for ventricul	02	General Surgery	1
61156	Burr hole(s); with aspira	02	General Surgery	1
61321	Craniectomy or cranioto	02	General Surgery	1
61332	Exploration of orbit (tran	02	General Surgery	1
61333	Exploration of orbit (tran	02	General Surgery	1
61345	Other cranial decompress	02	General Surgery	1
61458	Craniectomy, suboccipit	02	General Surgery	1
61470	Craniectomy, suboccipit	02	General Surgery	1
61514	Craniectomy, trephinatic	02	General Surgery	1
61516	Craniectomy, trephinatic	02	General Surgery	1
61520	Craniectomy for excision	02	General Surgery	1
61538	Craniotomy with elevatic	02	General Surgery	1
61540	Craniotomy with elevatic	02	General Surgery	1
61581	Craniofacial approach to	02	General Surgery	1
61584	Orbitocranial approach t	02	General Surgery	1
61585	Orbitocranial approach t	02	General Surgery	1
61586	Bicoronal, transzygomat	02	General Surgery	1
61591	Infratemporal post-auric	02	General Surgery	1

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61595	Transtemporal approach	02	General Surgery	1
61596	Transcochlear approach	02	General Surgery	1
61597	Transcondylar (far lateral)	02	General Surgery	1
61598	Transpetrosal approach	02	General Surgery	1
61686	Surgery of intracranial a	02	General Surgery	1
61790	Creation of lesion by ste	02	General Surgery	1
61867	Twist drill, burr hole, cra	02	General Surgery	1
61880	Revision or removal of in	02	General Surgery	1
62120	Repair of encephalocele	02	General Surgery	1
62147	Cranioplasty with autogr	02	General Surgery	1
62164	Neuroendoscopy, intrac	02	General Surgery	1
63003	Laminectomy with explo	02	General Surgery	1
63170	Laminectomy with myelo	02	General Surgery	1
63172	Laminectomy with drain	02	General Surgery	1
63268	Laminectomy for excisio	02	General Surgery	1
63273	Laminectomy for excisio	02	General Surgery	1
63285	Laminectomy for biopsy	02	General Surgery	1
63300	Vertebral corpectomy (v	02	General Surgery	1
64726	Decompression; plantar	02	General Surgery	1
64740	Transection or avulsion	02	General Surgery	1
64802	Sympathectomy, cervica	02	General Surgery	1
64821	Sympathectomy; radial a	02	General Surgery	1
64822	Sympathectomy; ulnar a	02	General Surgery	1
64895	Nerve graft (includes ob	02	General Surgery	1
65114	Exenteration of orbit (do	02	General Surgery	1
65426	Excision or transpositio	02	General Surgery	1
65730	Keratoplasty (corneal tra	02	General Surgery	1
65755	Keratoplasty (corneal tra	02	General Surgery	1
65870	Severing adhesions of a	02	General Surgery	1
66225	Repair of scleral staphyl	02	General Surgery	1
66250	Revision or repair of ope	02	General Surgery	1
66680	Repair of iris, ciliary bod	02	General Surgery	1
66770	Destruction of cyst or les	02	General Surgery	1
66986	Exchange of intraocular	02	General Surgery	1
67010	Removal of vitreous, ant	02	General Surgery	1
67450	Orbitotomy with bone fla	02	General Surgery	1
67808	Excision of chalazion; un	02	General Surgery	1
67911	Correction of lid retractio	02	General Surgery	1
67966	Excision and repair of ey	02	General Surgery	1
68362	Conjunctival flap; total (s	02	General Surgery	1
68520	Excision of lacrimal sac	02	General Surgery	1
68745	Conjunctivorhinostomy (	02	General Surgery	1
69310	Reconstruction of exterr	02	General Surgery	1
69530	Petrous apicectomy incl	02	General Surgery	1
69552	Excision aural glomus tu	02	General Surgery	1
69603	Revision mastoidectomy	02	General Surgery	1
69632	Tympanoplasty without r	02	General Surgery	1
69635	Tympanoplasty with antr	02	General Surgery	1
69636	Tympanoplasty with antr	02	General Surgery	1
69643	Tympanoplasty with mas	02	General Surgery	1
69660	Stapedectomy or staped	02	General Surgery	1
69666	Repair oval window fistu	02	General Surgery	1

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69667	Repair round window fis	02	General Surgery	1	
69720	Decompression facial ne	02	General Surgery	1	
69970	Removal of tumor, temp	02	General Surgery	1	
25109	Excision of tendon, fore	02	General Surgery	1	
33724	Repair of isolated partia	02	General Surgery	1	
33726	Repair of pulmonary ver	02	General Surgery	1	
64910	Nerve repair; with synthe	02	General Surgery	1	
64911	Nerve repair; with autog	02	General Surgery	1	
50562	Renal endoscopy throug	02	General Surgery	1	
33505	Repair of anomalous co	02	General Surgery	1	
33676	Closure of multiple ventr	02	General Surgery	0	
33677	Closure of multiple ventr	02	General Surgery	0	
58553	Laparoscopy, surgical, v	02	General Surgery	0	1,534,735
64721	Neuroplasty and/or trans	40	Hand Surgery	15,325	
26055	Tendon sheath incision	40	Hand Surgery	11,162	
29848	Endoscopy, wrist, surgic	40	Hand Surgery	3,404	
25447	Arthroplasty, interpositio	40	Hand Surgery	2,955	
26160	Excision of lesion of ten	40	Hand Surgery	2,335	
25310	Tendon transplantation	40	Hand Surgery	2,273	
26123	Fasciectomy, partial pal	40	Hand Surgery	2,248	
64718	Neuroplasty and/or trans	40	Hand Surgery	1,706	
25600	Closed treatment of dist	40	Hand Surgery	1,663	
20680	Removal of implant; dee	40	Hand Surgery	1,655	
26116	Excision, tumor or vascu	40	Hand Surgery	1,408	
25115	Radical excision of burs	40	Hand Surgery	1,252	
26531	Arthroplasty, metacarp	40	Hand Surgery	1,146	
25609	Open treatment of distal	40	Hand Surgery	1,108	
26951	Amputation, finger or thu	40	Hand Surgery	983	
25000	Incision, extensor tendo	40	Hand Surgery	970	
26145	Synovectomy, tendon sh	40	Hand Surgery	956	
26115	Excision, tumor or vascu	40	Hand Surgery	920	
26860	Arthrodesis, interphalan	40	Hand Surgery	883	
26480	Transfer or transplant of	40	Hand Surgery	829	
26600	Closed treatment of met	40	Hand Surgery	801	
25111	Excision of ganglion, wri	40	Hand Surgery	675	
29826	Arthroscopy, shoulder, s	40	Hand Surgery	667	
25605	Closed treatment of dist	40	Hand Surgery	645	
25608	Open treatment of distal	40	Hand Surgery	605	
14040	Adjacent tissue transfer	40	Hand Surgery	581	
26440	Tenolysis, flexor tendon	40	Hand Surgery	564	
26720	Closed treatment of pha	40	Hand Surgery	510	
27236	Open treatment of femo	40	Hand Surgery	483	
64719	Neuroplasty and/or trans	40	Hand Surgery	461	
26121	Fasciectomy, palm only,	40	Hand Surgery	444	
26040	Fasciotomy, palmar (eg,	40	Hand Surgery	434	
26536	Arthroplasty, interphalan	40	Hand Surgery	428	
25295	Tenolysis, flexor or exte	40	Hand Surgery	424	
23412	Repair of ruptured musc	40	Hand Surgery	395	
25240	Excision distal ulna parti	40	Hand Surgery	391	
26437	Realignment of extenso	40	Hand Surgery	384	
23600	Closed treatment of pro	40	Hand Surgery	377	
27245	Treatment of intertrocha	40	Hand Surgery	370	

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23472	Arthroplasty, glenohume	40	Hand Surgery	368
25606	Percutaneous skeletal fi	40	Hand Surgery	355
25280	Lengthening or shorteni	40	Hand Surgery	324
25210	Carpectomy; one bone	40	Hand Surgery	320
26418	Repair, extensor tendon	40	Hand Surgery	319
25290	Tenotomy, open, flexor	40	Hand Surgery	314
25607	Open treatment of distal	40	Hand Surgery	302
25118	Synovectomy, extensor	40	Hand Surgery	299
27447	Arthroplasty, knee, cond	40	Hand Surgery	299
26850	Arthrodesis, metacarpop	40	Hand Surgery	298
23120	Claviculectomy; partial	40	Hand Surgery	296
27244	Treatment of intertrocha	40	Hand Surgery	291
29824	Arthroscopy, shoulder, s	40	Hand Surgery	283
64708	Neuroplasty, major perip	40	Hand Surgery	283
26593	Release, intrinsic muscl	40	Hand Surgery	281
26080	Arthrotomy, with explor	40	Hand Surgery	273
26540	Repair of collateral ligan	40	Hand Surgery	267
26210	Excision or curettage of	40	Hand Surgery	266
26340	Manipulation, finger join	40	Hand Surgery	266
26445	Tenolysis, extensor tend	40	Hand Surgery	262
26525	Capsulectomy or capsul	40	Hand Surgery	257
29827	Arthroscopy, shoulder, s	40	Hand Surgery	257
26727	Percutaneous skeletal fi	40	Hand Surgery	253
26952	Amputation, finger or thu	40	Hand Surgery	251
26750	Closed treatment of dist	40	Hand Surgery	249
64831	Suture of digital nerve, h	40	Hand Surgery	246
29823	Arthroscopy, shoulder, s	40	Hand Surgery	242
29846	Arthroscopy, wrist, surg	40	Hand Surgery	234
25116	Radical excision of burs	40	Hand Surgery	228
15240	Full thickness graft, free	40	Hand Surgery	226
26020	Drainage of tendon shea	40	Hand Surgery	221
26236	Partial excision (crateriz	40	Hand Surgery	221
26356	Repair or advancement,	40	Hand Surgery	210
25020	Decompression fasciotom	40	Hand Surgery	205
25076	Excision, tumor, soft tiss	40	Hand Surgery	205
25215	Carpectomy; all bones c	40	Hand Surgery	197
26735	Open treatment of phala	40	Hand Surgery	196
24685	Open treatment of ulnar	40	Hand Surgery	189
26615	Open treatment of meta	40	Hand Surgery	189
26746	Open treatment of articu	40	Hand Surgery	189
24105	Excision, olecranon burs	40	Hand Surgery	187
26765	Open treatment of distal	40	Hand Surgery	187
29881	Arthroscopy, knee, surg	40	Hand Surgery	187
24650	Closed treatment of radi	40	Hand Surgery	185
26725	Closed treatment of pha	40	Hand Surgery	185
26320	Removal of implant from	40	Hand Surgery	180
26862	Arthrodesis, interphalan	40	Hand Surgery	179
25825	Arthrodesis, wrist; with a	40	Hand Surgery	175
26740	Closed treatment of artic	40	Hand Surgery	173
24363	Arthroplasty, elbow; with	40	Hand Surgery	172
20924	Tendon graft, from a dis	40	Hand Surgery	169
26140	Synovectomy, proximal	40	Hand Surgery	168

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25075	Excision, tumor, soft tiss	40	Hand Surgery	165
25320	Capsulorrhaphy or recon	40	Hand Surgery	163
25260	Repair, tendon or muscl	40	Hand Surgery	160
26410	Repair, extensor tendon	40	Hand Surgery	159
26910	Amputation, metacarpal	40	Hand Surgery	155
26520	Capsulectomy or capsul	40	Hand Surgery	153
28470	Closed treatment of met	40	Hand Surgery	151
24305	Tendon lengthening, up	40	Hand Surgery	149
26135	Synovectomy, metacarp	40	Hand Surgery	149
26235	Partial excision (crateriz	40	Hand Surgery	146
23420	Reconstruction of comp	40	Hand Surgery	143
27235	Percutaneous skeletal fi	40	Hand Surgery	141
25622	Closed treatment of carp	40	Hand Surgery	138
27130	Arthroplasty, acetabular	40	Hand Surgery	137
25028	Incision and drainage, fo	40	Hand Surgery	136
23470	Arthroplasty, glenohume	40	Hand Surgery	131
64782	Excision of neuroma; ha	40	Hand Surgery	131
26516	Capsulodesis, metacarp	40	Hand Surgery	129
64702	Neuroplasty; digital, one	40	Hand Surgery	126
26350	Repair or advancement,	40	Hand Surgery	125
25810	Arthrodesis, wrist; with il	40	Hand Surgery	123
27786	Closed treatment of dist	40	Hand Surgery	122
29822	Arthroscopy, shoulder, s	40	Hand Surgery	122
26432	Closed treatment of dist	40	Hand Surgery	121
25230	Radial styloidectomy (se	40	Hand Surgery	120
26442	Tenolysis, flexor tendon	40	Hand Surgery	119
25270	Repair, tendon or muscl	40	Hand Surgery	113
26485	Transfer or transplant of	40	Hand Surgery	113
26535	Arthroplasty, interphalar	40	Hand Surgery	113
26605	Closed treatment of met	40	Hand Surgery	109
26110	Arthrotomy with biopsy;	40	Hand Surgery	107
27193	Closed treatment of pelv	40	Hand Surgery	107
23615	Open treatment of proxi	40	Hand Surgery	106
26455	Tenotomy, flexor, finger	40	Hand Surgery	106
25445	Arthroplasty with prosthe	40	Hand Surgery	105
25800	Arthrodesis, wrist; comp	40	Hand Surgery	104
25105	Arthrotomy, wrist joint; w	40	Hand Surgery	103
15100	Split-thickness autograft	40	Hand Surgery	101
20694	Removal, under anesthe	40	Hand Surgery	100
25630	Closed treatment of carp	40	Hand Surgery	99
64784	Excision of neuroma; ma	40	Hand Surgery	98
25530	Closed treatment of ulna	40	Hand Surgery	97
25400	Repair of nonunion or m	40	Hand Surgery	96
14060	Adjacent tissue transfer	40	Hand Surgery	94
20690	Application of a uniplane	40	Hand Surgery	94
26045	Fasciotomy, palmar (eg,	40	Hand Surgery	94
25545	Open treatment of ulnar	40	Hand Surgery	93
29880	Arthroscopy, knee, surg	40	Hand Surgery	88
23430	Tenodesis of long tendo	40	Hand Surgery	85
13160	Secondary closure of su	40	Hand Surgery	84
26460	Tenotomy, extensor, ha	40	Hand Surgery	83
26117	Radical resection of tum	40	Hand Surgery	82

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26608	Percutaneous skeletal fi	40	Hand Surgery	82
26852	Arthrodesis, metacarpop	40	Hand Surgery	81
24076	Excision, tumor, soft tiss	40	Hand Surgery	80
26034	Incision, bone cortex, ha	40	Hand Surgery	80
26530	Arthroplasty, metacarpop	40	Hand Surgery	77
26785	Open treatment of interp	40	Hand Surgery	77
27266	Closed treatment of pos	40	Hand Surgery	77
23500	Closed treatment of clav	40	Hand Surgery	75
26426	Repair of extensor tend	40	Hand Surgery	75
27814	Open treatment of bimal	40	Hand Surgery	73
24075	Excision, tumor, soft tiss	40	Hand Surgery	72
25405	Repair of nonunion or m	40	Hand Surgery	71
25337	Reconstruction for stabl	40	Hand Surgery	70
15120	Split-thickness autograft	40	Hand Surgery	68
20902	Bone graft, any donor ar	40	Hand Surgery	68
23130	Acromioplasty or acromi	40	Hand Surgery	65
14020	Adjacent tissue transfer	40	Hand Surgery	63
25390	Osteoplasty, radius OR	40	Hand Surgery	63
26450	Tenotomy, flexor, palm,	40	Hand Surgery	63
35207	Repair blood vessel, dire	40	Hand Surgery	63
25112	Excision of ganglion, wr	40	Hand Surgery	62
25575	Open treatment of radia	40	Hand Surgery	61
26471	Tenodesis; of proximal i	40	Hand Surgery	61
27506	Open treatment of femo	40	Hand Surgery	60
25040	Arthrotomy, radiocarpal	40	Hand Surgery	59
26075	Arthrotomy, with explora	40	Hand Surgery	59
24342	Reinsertion of ruptured l	40	Hand Surgery	58
24515	Open treatment of hume	40	Hand Surgery	58
20900	Bone graft, any donor ar	40	Hand Surgery	57
24500	Closed treatment of hum	40	Hand Surgery	56
26180	Excision of tendon, finge	40	Hand Surgery	56
26548	Repair and reconstructi	40	Hand Surgery	55
26433	Repair of extensor tend	40	Hand Surgery	52
26756	Percutaneous skeletal fi	40	Hand Surgery	52
15050	Pinch graft, single or mu	40	Hand Surgery	51
25650	Closed treatment of ulna	40	Hand Surgery	51
26449	Tenolysis, complex, exte	40	Hand Surgery	51
28285	Correction, hammertoe	40	Hand Surgery	51
23410	Repair of ruptured musc	40	Hand Surgery	50
25312	Tendon transplantation	40	Hand Surgery	50
26230	Partial excision (crateriz	40	Hand Surgery	50
26541	Reconstruction, collatera	40	Hand Surgery	50
25350	Osteotomy, radius; dista	40	Hand Surgery	48
25820	Arthrodesis, wrist; limite	40	Hand Surgery	48
26478	Lengthening of tendon, f	40	Hand Surgery	48
64722	Decompression; unspec	40	Hand Surgery	48
26025	Drainage of palmar burs	40	Hand Surgery	47
26510	Cross intrinsic transfer,	40	Hand Surgery	46
24343	Repair lateral collateral l	40	Hand Surgery	45
23620	Closed treatment of gre	40	Hand Surgery	44
25628	Open treatment of carpa	40	Hand Surgery	44
29807	Arthroscopy, shoulder, s	40	Hand Surgery	44

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15574	Formation of direct or tu	40	Hand Surgery	43
24670	Closed treatment of ulna	40	Hand Surgery	43
25332	Arthroplasty, wrist, with e	40	Hand Surgery	43
64820	Sympathectomy; digital	40	Hand Surgery	43
15736	Muscle, myocutaneous,	40	Hand Surgery	42
24546	Open treatment of hume	40	Hand Surgery	42
26742	Closed treatment of artic	40	Hand Surgery	42
64704	Neuroplasty; nerve of ha	40	Hand Surgery	42
15260	Full thickness graft, free	40	Hand Surgery	41
26060	Tenotomy, percutaneous	40	Hand Surgery	41
23616	Open treatment of proxi	40	Hand Surgery	40
25130	Excision or curettage of	40	Hand Surgery	40
25515	Open treatment of radia	40	Hand Surgery	40
64856	Suture of major peripher	40	Hand Surgery	40
26037	Decompressive fascioto	40	Hand Surgery	39
26170	Excision of tendon, palm	40	Hand Surgery	39
26500	Reconstruction of tendo	40	Hand Surgery	39
25300	Tenodesis at wrist; flexo	40	Hand Surgery	38
26542	Reconstruction, collater	40	Hand Surgery	38
26755	Closed treatment of dist	40	Hand Surgery	38
24149	Radical resection of cap	40	Hand Surgery	37
24666	Open treatment of radia	40	Hand Surgery	37
25101	Arthrotomy, wrist joint; w	40	Hand Surgery	37
25652	Open treatment of ulnar	40	Hand Surgery	37
26370	Repair or advancement	40	Hand Surgery	37
26776	Percutaneous skeletal fi	40	Hand Surgery	37
27125	Hemiarthroplasty, hip, p	40	Hand Surgery	37
14041	Adjacent tissue transfer	40	Hand Surgery	36
24530	Closed treatment of sup	40	Hand Surgery	36
25446	Arthroplasty with prosth	40	Hand Surgery	36
26477	Shortening of tendon, ex	40	Hand Surgery	36
26496	Opponensplasty; other r	40	Hand Surgery	36
26841	Arthrodesis, carpometac	40	Hand Surgery	36
64774	Excision of neuroma; cu	40	Hand Surgery	36
24160	Implant removal; elbow	40	Hand Surgery	35
25066	Biopsy, soft tissue of for	40	Hand Surgery	35
26775	Closed treatment of inte	40	Hand Surgery	35
27530	Closed treatment of tibia	40	Hand Surgery	35
24615	Open treatment of acute	40	Hand Surgery	34
29844	Arthroscopy, wrist, surgi	40	Hand Surgery	34
29847	Arthroscopy, wrist, surgi	40	Hand Surgery	34
47562	Laparoscopy, surgical; c	40	Hand Surgery	34
24130	Excision, radial head	40	Hand Surgery	33
26030	Drainage of palmar bursa	40	Hand Surgery	33
26715	Open treatment of meta	40	Hand Surgery	33
27520	Closed treatment of pate	40	Hand Surgery	33
25107	Arthrotomy, distal radiou	40	Hand Surgery	32
25110	Excision, lesion of tendo	40	Hand Surgery	32
25442	Arthroplasty with prosth	40	Hand Surgery	32
26546	Repair non-union, metac	40	Hand Surgery	32
27822	Open treatment of trima	40	Hand Surgery	32
64776	Excision of neuroma; dig	40	Hand Surgery	32

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23020	Capsular contracture rel	40	Hand Surgery	31
24341	Repair, tendon or muscl	40	Hand Surgery	31
24665	Open treatment of radia	40	Hand Surgery	31
25085	Capsulotomy, wrist (eg,	40	Hand Surgery	31
26770	Closed treatment of inte	40	Hand Surgery	31
27759	Treatment of tibial shaft	40	Hand Surgery	31
29840	Arthroscopy, wrist, diagn	40	Hand Surgery	31
15740	Flap; island pedicle	40	Hand Surgery	30
25301	Tenodesis at wrist; exte	40	Hand Surgery	30
25900	Amputation, forearm, thi	40	Hand Surgery	30
26070	Arthrotomy, with explor	40	Hand Surgery	30
26200	Excision or curettage of	40	Hand Surgery	30
26490	Opponensplasty; superf	40	Hand Surgery	30
64772	Transection or avulsion	40	Hand Surgery	30
20926	Tissue grafts, other (eg,	40	Hand Surgery	29
24000	Arthrotomy, elbow, inclu	40	Hand Surgery	29
24147	Partial excision (crateriz	40	Hand Surgery	29
25119	Synovectomy, extensor	40	Hand Surgery	29
25500	Closed treatment of radi	40	Hand Surgery	29
26567	Osteotomy; phalanx of f	40	Hand Surgery	29
27524	Open treatment of patell	40	Hand Surgery	29
23605	Closed treatment of prox	40	Hand Surgery	27
24366	Arthroplasty, radial head	40	Hand Surgery	27
24545	Open treatment of hume	40	Hand Surgery	27
26591	Repair, intrinsic muscles	40	Hand Surgery	27
64834	Suture of one nerve; han	40	Hand Surgery	27
15220	Full thickness graft, free	40	Hand Surgery	26
21800	Closed treatment of rib f	40	Hand Surgery	26
23332	Removal of foreign body	40	Hand Surgery	26
35206	Repair blood vessel, dire	40	Hand Surgery	26
24140	Partial excision (crateriz	40	Hand Surgery	25
25670	Open treatment of radio	40	Hand Surgery	25
24430	Repair of nonunion or m	40	Hand Surgery	24
25001	Incision, flexor tendon s	40	Hand Surgery	24
25120	Excision or curettage of	40	Hand Surgery	24
25274	Repair, tendon or muscl	40	Hand Surgery	24
25440	Repair of nonunion, sca	40	Hand Surgery	24
35761	Exploration (not followe	40	Hand Surgery	24
23405	Tenotomy, shoulder are	40	Hand Surgery	23
26476	Lengthening of tendon, e	40	Hand Surgery	23
26545	Reconstruction, collater	40	Hand Surgery	23
27511	Open treatment of femo	40	Hand Surgery	23
28510	Closed treatment of frac	40	Hand Surgery	23
35236	Repair blood vessel with	40	Hand Surgery	23
15115	Epidermal autograft, fac	40	Hand Surgery	23
14021	Adjacent tissue transfer	40	Hand Surgery	22
26412	Repair, extensor tendon	40	Hand Surgery	22
26706	Percutaneous skeletal fi	40	Hand Surgery	22
27792	Open treatment of distal	40	Hand Surgery	22
23655	Closed treatment of sho	40	Hand Surgery	21
24101	Arthrotomy, elbow; with	40	Hand Surgery	21
24310	Tenotomy, open, elbow	40	Hand Surgery	21

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25560	Closed treatment of radi	40	Hand Surgery	21
25830	Arthrodesis, distal radiou	40	Hand Surgery	21
27507	Open treatment of femo	40	Hand Surgery	21
22310	Closed treatment of vert	40	Hand Surgery	20
23076	Excision, soft tissue tum	40	Hand Surgery	20
24102	Arthrotomy, elbow; with	40	Hand Surgery	20
24435	Repair of nonunion or m	40	Hand Surgery	20
24516	Treatment of humeral sh	40	Hand Surgery	20
24579	Open treatment of hume	40	Hand Surgery	20
24635	Open treatment of Mont	40	Hand Surgery	20
25449	Revision of arthroplasty,	40	Hand Surgery	20
25574	Open treatment of radia	40	Hand Surgery	20
26483	Transfer or transplant of	40	Hand Surgery	20
26498	Transfer of tendon to re	40	Hand Surgery	20
26508	Release of thenar musc	40	Hand Surgery	20
27880	Amputation, leg, through	40	Hand Surgery	20
43846	Gastric restrictive proce	40	Hand Surgery	20
20692	Application of a multipla	40	Hand Surgery	19
23331	Removal of foreign body	40	Hand Surgery	19
25100	Arthrotomy, wrist joint; w	40	Hand Surgery	19
25150	Partial excision (crateriz	40	Hand Surgery	19
25248	Exploration with remova	40	Hand Surgery	19
26990	Incision and drainage, p	40	Hand Surgery	19
27750	Closed treatment of tibia	40	Hand Surgery	19
15430	Acellular xenograft impla	40	Hand Surgery	19
15750	Flap; neurovascular ped	40	Hand Surgery	18
24586	Open treatment of peria	40	Hand Surgery	18
25272	Repair, tendon or muscl	40	Hand Surgery	18
26565	Osteotomy; metacarpal,	40	Hand Surgery	18
26676	Percutaneous skeletal fi	40	Hand Surgery	18
26842	Arthrodesis, carpometac	40	Hand Surgery	18
27590	Amputation, thigh, throu	40	Hand Surgery	18
27808	Closed treatment of bim	40	Hand Surgery	18
29821	Arthroscopy, shoulder, s	40	Hand Surgery	18
29825	Arthroscopy, shoulder, s	40	Hand Surgery	18
29845	Arthroscopy, wrist, surgi	40	Hand Surgery	18
64857	Suture of major periphe	40	Hand Surgery	18
23630	Open treatment of great	40	Hand Surgery	17
25135	Excision or curettage of	40	Hand Surgery	17
25265	Repair, tendon or muscl	40	Hand Surgery	17
25535	Closed treatment of ulna	40	Hand Surgery	17
25920	Disarticulation through v	40	Hand Surgery	17
27220	Closed treatment of ace	40	Hand Surgery	17
27246	Closed treatment of grea	40	Hand Surgery	17
29871	Arthroscopy, knee, surg	40	Hand Surgery	17
64790	Excision of neurofibroma	40	Hand Surgery	17
15620	Delay of flap or sectionir	40	Hand Surgery	16
15738	Muscle, myocutaneous,	40	Hand Surgery	16
24120	Excision or curettage of	40	Hand Surgery	16
24605	Treatment of closed elbo	40	Hand Surgery	16
25151	Partial excision (crateriz	40	Hand Surgery	16
26105	Arthrotomy with biopsy;	40	Hand Surgery	16

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26352	Repair or advancement,	40	Hand Surgery	16
44160	Colectomy, partial, with	40	Hand Surgery	16
25676	Open treatment of distal	40	Hand Surgery	15
25927	Transmetacarpal amput	40	Hand Surgery	15
26489	Transfer or transplant of	40	Hand Surgery	15
26685	Open treatment of carpo	40	Hand Surgery	15
29838	Arthroscopy, elbow, surg	40	Hand Surgery	15
15135	Dermal autograft, face, s	40	Hand Surgery	14
14300	Adjacent tissue transfer	40	Hand Surgery	14
23040	Arthrotomy, glenohumer	40	Hand Surgery	14
25077	Radical resection of tum	40	Hand Surgery	14
25360	Osteotomy; ulna	40	Hand Surgery	14
26390	Excision flexor tendon, v	40	Hand Surgery	14
26665	Open treatment of carpo	40	Hand Surgery	14
27230	Closed treatment of fem	40	Hand Surgery	14
27486	Revision of total knee ar	40	Hand Surgery	14
27829	Open treatment of distal	40	Hand Surgery	14
64821	Sympathectomy; radial a	40	Hand Surgery	14
15734	Muscle, myocutaneous,	40	Hand Surgery	13
19318	Reduction mammoplast	40	Hand Surgery	13
23570	Closed treatment of sca	40	Hand Surgery	13
23935	Incision, deep, with oper	40	Hand Surgery	13
24006	Arthrotomy of the elbow	40	Hand Surgery	13
24587	Open treatment of peria	40	Hand Surgery	13
25035	Incision, deep, bone cor	40	Hand Surgery	13
25145	Sequestrectomy (eg, for	40	Hand Surgery	13
25259	Manipulation, wrist, unde	40	Hand Surgery	13
25275	Repair, tendon sheath, e	40	Hand Surgery	13
25651	Percutaneous skeletal fi	40	Hand Surgery	13
26215	Excision or curettage of	40	Hand Surgery	13
26492	Opponensplasty; tendor	40	Hand Surgery	13
26650	Percutaneous skeletal fi	40	Hand Surgery	13
27513	Open treatment of femo	40	Hand Surgery	13
27752	Closed treatment of tibia	40	Hand Surgery	13
27780	Closed treatment of pro	40	Hand Surgery	13
28112	Ostectomy, complete ex	40	Hand Surgery	13
64822	Sympathectomy; ulnar a	40	Hand Surgery	13
15756	Free muscle or myocuta	40	Hand Surgery	12
24164	Implant removal; radial h	40	Hand Surgery	12
25263	Repair, tendon or muscl	40	Hand Surgery	12
25391	Osteoplasty, radius OR	40	Hand Surgery	12
25505	Closed treatment of radi	40	Hand Surgery	12
25645	Open treatment of carpa	40	Hand Surgery	12
25805	Arthrodesis, wrist; with s	40	Hand Surgery	12
26130	Synovectomy, carpomet	40	Hand Surgery	12
26420	Repair, extensor tendon	40	Hand Surgery	12
27238	Closed treatment of inte	40	Hand Surgery	12
27310	Arthrotomy, knee, with e	40	Hand Surgery	12
27487	Revision of total knee ar	40	Hand Surgery	12
29806	Arthroscopy, shoulder, s	40	Hand Surgery	12
29820	Arthroscopy, shoulder, s	40	Hand Surgery	12
29876	Arthroscopy, knee, surg	40	Hand Surgery	12

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29877	Arthroscopy, knee, surg	40	Hand Surgery	12
64890	Nerve graft (includes ob	40	Hand Surgery	12
20693	Adjustment or revision c	40	Hand Surgery	11
25526	Open treatment of radia	40	Hand Surgery	11
26392	Removal of synthetic ro	40	Hand Surgery	11
26502	Reconstruction of tendo	40	Hand Surgery	11
26686	Open treatment of carpo	40	Hand Surgery	11
26700	Closed treatment of met	40	Hand Surgery	11
27265	Closed treatment of pos	40	Hand Surgery	11
27385	Suture of quadriceps or	40	Hand Surgery	11
27758	Open treatment of tibial	40	Hand Surgery	11
27760	Closed treatment of med	40	Hand Surgery	11
28292	Correction, hallux valgus	40	Hand Surgery	11
28308	Osteotomy, with or with	40	Hand Surgery	11
28485	Open treatment of meta	40	Hand Surgery	11
28490	Closed treatment of frac	40	Hand Surgery	11
29875	Arthroscopy, knee, surg	40	Hand Surgery	11
29879	Arthroscopy, knee, surg	40	Hand Surgery	11
14350	Filletted finger or toe flap	40	Hand Surgery	10
24300	Manipulation, elbow, unc	40	Hand Surgery	10
24505	Closed treatment of hum	40	Hand Surgery	10
25420	Repair of nonunion or m	40	Hand Surgery	10
25490	Prophylactic treatment (	40	Hand Surgery	10
26035	Decompression fingers	40	Hand Surgery	10
26358	Repair or advancement,	40	Hand Surgery	10
26607	Closed treatment of met	40	Hand Surgery	10
26705	Closed treatment of met	40	Hand Surgery	10
27501	Closed treatment of sup	40	Hand Surgery	10
27514	Open treatment of femo	40	Hand Surgery	10
27535	Open treatment of tibial	40	Hand Surgery	10
43644	Laparoscopy, surgical, g	40	Hand Surgery	10
23440	Resection or transplanta	40	Hand Surgery	9
23665	Closed treatment of sho	40	Hand Surgery	9
24066	Biopsy, soft tissue of up	40	Hand Surgery	9
25023	Decompression fascioto	40	Hand Surgery	9
25025	Decompression fascioto	40	Hand Surgery	9
25250	Removal of wrist prosth	40	Hand Surgery	9
25251	Removal of wrist prosth	40	Hand Surgery	9
25695	Open treatment of lunat	40	Hand Surgery	9
26415	Excision of extensor ten	40	Hand Surgery	9
26474	Tenodesis; of distal joint	40	Hand Surgery	9
26568	Osteoplasty, lengthening	40	Hand Surgery	9
27301	Incision and drainage, d	40	Hand Surgery	9
27603	Incision and drainage, le	40	Hand Surgery	9
27766	Open treatment of medi	40	Hand Surgery	9
28208	Repair, tendon, extenso	40	Hand Surgery	9
28289	Hallux rigidus correction	40	Hand Surgery	9
28300	Osteotomy; calcaneus (c	40	Hand Surgery	9
28400	Closed treatment of calc	40	Hand Surgery	9
29805	Arthroscopy, shoulder, c	40	Hand Surgery	9
29819	Arthroscopy, shoulder, s	40	Hand Surgery	9
35045	Direct repair of aneurysr	40	Hand Surgery	9

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35301	Thromboendarterectomy	40	Hand Surgery	9
64788	Excision of neurofibroma	40	Hand Surgery	9
64823	Sympathectomy; superfi	40	Hand Surgery	9
15770	Graft; derma-fat-fascia	40	Hand Surgery	8
23650	Closed treatment of sho	40	Hand Surgery	8
24301	Muscle or tendon transfe	40	Hand Surgery	8
24345	Repair medial collateral	40	Hand Surgery	8
24576	Closed treatment of hun	40	Hand Surgery	8
25024	Decompression fasciotom	40	Hand Surgery	8
25315	Flexor origin slide (eg, fo	40	Hand Surgery	8
25415	Repair of nonunion or m	40	Hand Surgery	8
25660	Closed treatment of radi	40	Hand Surgery	8
26843	Arthrodesis, carpometac	40	Hand Surgery	8
27030	Arthrotomy, hip, with dra	40	Hand Surgery	8
27132	Conversion of previous f	40	Hand Surgery	8
27425	Lateral retinacular relea	40	Hand Surgery	8
28122	Partial excision (crateriz	40	Hand Surgery	8
28810	Amputation, metatarsal,	40	Hand Surgery	8
49505	Repair initial inguinal he	40	Hand Surgery	8
15175	Acellular dermal replace	40	Hand Surgery	7
24344	Reconstruction lateral co	40	Hand Surgery	7
24560	Closed treatment of hun	40	Hand Surgery	7
24900	Amputation, arm througl	40	Hand Surgery	7
25525	Open treatment of radia	40	Hand Surgery	7
25565	Closed treatment of radi	40	Hand Surgery	7
25675	Closed treatment of dist	40	Hand Surgery	7
26497	Transfer of tendon to res	40	Hand Surgery	7
27134	Revision of total hip arth	40	Hand Surgery	7
27248	Open treatment of great	40	Hand Surgery	7
27508	Closed treatment of fem	40	Hand Surgery	7
27788	Closed treatment of dist	40	Hand Surgery	7
27810	Closed treatment of bim	40	Hand Surgery	7
27818	Closed treatment of trim	40	Hand Surgery	7
28270	Capsulotomy; metatarsc	40	Hand Surgery	7
28296	Correction, hallux valgus	40	Hand Surgery	7
28750	Arthrodesis, great toe; m	40	Hand Surgery	7
37618	Ligation, major artery (e	40	Hand Surgery	7
64713	Neuroplasty, major perip	40	Hand Surgery	7
14061	Adjacent tissue transfer	40	Hand Surgery	6
20955	Bone graft with microvas	40	Hand Surgery	6
21015	Radical resection of tum	40	Hand Surgery	6
21627	Sternal debridement	40	Hand Surgery	6
23184	Partial excision (crateriz	40	Hand Surgery	6
23395	Muscle transfer, any typ	40	Hand Surgery	6
23515	Open treatment of clavic	40	Hand Surgery	6
24077	Radical resection of tum	40	Hand Surgery	6
24361	Arthroplasty, elbow; with	40	Hand Surgery	6
24420	Osteoplasty, humerus (e	40	Hand Surgery	6
24600	Treatment of closed elbo	40	Hand Surgery	6
25425	Repair of defect with aut	40	Hand Surgery	6
25441	Arthroplasty with prosthe	40	Hand Surgery	6
26357	Repair or advancement,	40	Hand Surgery	6

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26373	Repair or advancement	40	Hand Surgery	6
26844	Arthrodesis, carpometac	40	Hand Surgery	6
27500	Closed treatment of fem	40	Hand Surgery	6
27536	Open treatment of tibial	40	Hand Surgery	6
27870	Arthrodesis, ankle, oper	40	Hand Surgery	6
28820	Amputation, toe; metata	40	Hand Surgery	6
47563	Laparoscopy, surgical; c	40	Hand Surgery	6
49560	Repair initial incisional o	40	Hand Surgery	6
60220	Total thyroid lobectomy,	40	Hand Surgery	6
60240	Thyroidectomy, total or c	40	Hand Surgery	6
15200	Full thickness graft, free	40	Hand Surgery	5
15630	Delay of flap or sectionin	40	Hand Surgery	5
15837	Excision, excessive skin	40	Hand Surgery	5
19307	Mastectomy, modified ra	40	Hand Surgery	5
19316	Mastopexy	40	Hand Surgery	5
19380	Revision of reconstructe	40	Hand Surgery	5
21700	Division of scalenus anti	40	Hand Surgery	5
23107	Arthrotomy, glenohumer	40	Hand Surgery	5
23182	Partial excision (crateriz	40	Hand Surgery	5
23415	Coracoacromial ligamen	40	Hand Surgery	5
24134	Sequestrectomy (eg, for	40	Hand Surgery	5
24201	Removal of foreign body	40	Hand Surgery	5
24346	Reconstruction medial c	40	Hand Surgery	5
24400	Osteotomy, humerus, w	40	Hand Surgery	5
25136	Excision or curettage of	40	Hand Surgery	5
26185	Sesamoidectomy, thum	40	Hand Surgery	5
26250	Radical resection, metac	40	Hand Surgery	5
26372	Repair or advancement	40	Hand Surgery	5
26645	Closed treatment of carp	40	Hand Surgery	5
26820	Fusion in opposition, thu	40	Hand Surgery	5
27122	Acetabuloplasty; resecti	40	Hand Surgery	5
27503	Closed treatment of sup	40	Hand Surgery	5
27509	Percutaneous skeletal fi	40	Hand Surgery	5
27685	Lengthening or shortenin	40	Hand Surgery	5
28080	Excision, interdigital (Mc	40	Hand Surgery	5
28740	Arthrodesis, midtarsal o	40	Hand Surgery	5
29843	Arthroscopy, wrist, surgi	40	Hand Surgery	5
29873	Arthroscopy, knee, surg	40	Hand Surgery	5
35860	Exploration for postoper	40	Hand Surgery	5
43770	Laparoscopy, surgical, c	40	Hand Surgery	5
44050	Reduction of volvulus, in	40	Hand Surgery	5
44120	Enterectomy, resection o	40	Hand Surgery	5
47610	Cholecystectomy with ex	40	Hand Surgery	5
49566	Repair recurrent incision	40	Hand Surgery	5
49585	Repair umbilical hernia,	40	Hand Surgery	5
49587	Repair umbilical hernia,	40	Hand Surgery	5
15130	Dermal autograft, trunk,	40	Hand Surgery	4
15757	Free skin flap with micro	40	Hand Surgery	4
15823	Blepharoplasty, upper e	40	Hand Surgery	4
15936	Excision, sacral pressur	40	Hand Surgery	4
19303	Mastectomy, simple, con	40	Hand Surgery	4
19342	Delayed insertion of bre	40	Hand Surgery	4

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19357	Breast reconstruction, in	40	Hand Surgery	4
22305	Closed treatment of vert	40	Hand Surgery	4
23455	Capsulorrhaphy, anterior	40	Hand Surgery	4
23480	Osteotomy, clavicle, with	40	Hand Surgery	4
23540	Closed treatment of acro	40	Hand Surgery	4
23550	Open treatment of acror	40	Hand Surgery	4
23660	Open treatment of acute	40	Hand Surgery	4
24110	Excision or curettage of	40	Hand Surgery	4
24138	Sequestrectomy (eg, for	40	Hand Surgery	4
24330	Flexor-plasty, elbow (eg	40	Hand Surgery	4
24360	Arthroplasty, elbow; with	40	Hand Surgery	4
24365	Arthroplasty, radial head	40	Hand Surgery	4
24495	Decompression fasciotom	40	Hand Surgery	4
24575	Open treatment of humer	40	Hand Surgery	4
24620	Closed treatment of Mor	40	Hand Surgery	4
25031	Incision and drainage, fo	40	Hand Surgery	4
25126	Excision or curettage of	40	Hand Surgery	4
25624	Closed treatment of carp	40	Hand Surgery	4
25635	Closed treatment of carp	40	Hand Surgery	4
25671	Percutaneous skeletal fi	40	Hand Surgery	4
25685	Open treatment of trans	40	Hand Surgery	4
26100	Arthrotomy with biopsy;	40	Hand Surgery	4
26428	Repair of extensor tend	40	Hand Surgery	4
26499	Correction claw finger, c	40	Hand Surgery	4
26590	Repair macrodactylia, ex	40	Hand Surgery	4
26670	Closed treatment of carp	40	Hand Surgery	4
27090	Removal of hip prosthes	40	Hand Surgery	4
27137	Revision of total hip arth	40	Hand Surgery	4
27252	Closed treatment of hip	40	Hand Surgery	4
27334	Arthrotomy, with synove	40	Hand Surgery	4
27340	Excision, prepatellar bur	40	Hand Surgery	4
27360	Partial excision (crateriz	40	Hand Surgery	4
27446	Arthroplasty, knee, cond	40	Hand Surgery	4
27618	Excision, tumor, leg or a	40	Hand Surgery	4
27823	Open treatment of trima	40	Hand Surgery	4
27827	Open treatment of fractu	40	Hand Surgery	4
28090	Excision of lesion, tend	40	Hand Surgery	4
28092	Excision of lesion, tend	40	Hand Surgery	4
28280	Syndactylization, toes (e	40	Hand Surgery	4
28299	Correction, hallux valgus	40	Hand Surgery	4
28450	Treatment of tarsal bone	40	Hand Surgery	4
29836	Arthroscopy, elbow, surg	40	Hand Surgery	4
29837	Arthroscopy, elbow, surg	40	Hand Surgery	4
34111	Embolectomy or thromb	40	Hand Surgery	4
34201	Embolectomy or thromb	40	Hand Surgery	4
47600	Cholecystectomy;	40	Hand Surgery	4
53500	Urethrolisis, transvagina	40	Hand Surgery	4
55845	Prostatectomy, retropub	40	Hand Surgery	4
57288	Sling operation for stres	40	Hand Surgery	4
60500	Parathyroidectomy or ex	40	Hand Surgery	4
64836	Suture of one nerve; uln	40	Hand Surgery	4
64892	Nerve graft (includes ob	40	Hand Surgery	4

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64893	Nerve graft (includes ob	40	Hand Surgery	4
25109	Excision of tendon, forea	40	Hand Surgery	4
15570	Formation of direct or tu	40	Hand Surgery	3
19302	Mastectomy, partial (eg,	40	Hand Surgery	3
19371	Periprosthetic capsulect	40	Hand Surgery	3
21555	Excision tumor, soft tiss	40	Hand Surgery	3
22612	Arthrodesis, posterior or	40	Hand Surgery	3
23105	Arthrotomy; glenohumer	40	Hand Surgery	3
23150	Excision or curettage of	40	Hand Surgery	3
23174	Sequestrectomy (eg, for	40	Hand Surgery	3
23180	Partial excision (crateriz	40	Hand Surgery	3
23485	Osteotomy, clavicle, with	40	Hand Surgery	3
23505	Closed treatment of clav	40	Hand Surgery	3
23675	Closed treatment of sho	40	Hand Surgery	3
23680	Open treatment of shoul	40	Hand Surgery	3
24145	Partial excision (crateriz	40	Hand Surgery	3
24655	Closed treatment of radi	40	Hand Surgery	3
24675	Closed treatment of ulna	40	Hand Surgery	3
24800	Arthrodesis, elbow joint;	40	Hand Surgery	3
25125	Excision or curettage of	40	Hand Surgery	3
25430	Insertion of vascular pec	40	Hand Surgery	3
25907	Amputation, forearm, thi	40	Hand Surgery	3
25909	Amputation, forearm, thi	40	Hand Surgery	3
26205	Excision or curettage of	40	Hand Surgery	3
26494	Opponensplasty; hypoth	40	Hand Surgery	3
26518	Capsulodesis, metacarp	40	Hand Surgery	3
26675	Closed treatment of carp	40	Hand Surgery	3
26992	Incision, bone cortex, pe	40	Hand Surgery	3
27138	Revision of total hip arth	40	Hand Surgery	3
27240	Closed treatment of inte	40	Hand Surgery	3
27250	Closed treatment of hip	40	Hand Surgery	3
27380	Suture of infrapatellar te	40	Hand Surgery	3
27437	Arthroplasty, patella; wit	40	Hand Surgery	3
27488	Removal of prosthesis, i	40	Hand Surgery	3
27532	Closed treatment of tibia	40	Hand Surgery	3
27602	Decompression fasciotom	40	Hand Surgery	3
27619	Excision, tumor, leg or a	40	Hand Surgery	3
27625	Arthrotomy, with synove	40	Hand Surgery	3
27640	Partial excision (crateriz	40	Hand Surgery	3
27641	Partial excision (crateriz	40	Hand Surgery	3
27650	Repair, primary, open or	40	Hand Surgery	3
27687	Gastrocnemius recessio	40	Hand Surgery	3
27691	Transfer or transplant of	40	Hand Surgery	3
27824	Closed treatment of frac	40	Hand Surgery	3
27825	Closed treatment of frac	40	Hand Surgery	3
27828	Open treatment of fractu	40	Hand Surgery	3
27846	Open treatment of ankle	40	Hand Surgery	3
28035	Release, tarsal tunnel (p	40	Hand Surgery	3
28045	Excision, tumor, foot; de	40	Hand Surgery	3
28108	Excision or curettage of	40	Hand Surgery	3
28113	Ostectomy, complete ex	40	Hand Surgery	3
28192	Removal of foreign body	40	Hand Surgery	3

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28232	Tenotomy, open, tendor	40	Hand Surgery	3
28234	Tenotomy, open, extens	40	Hand Surgery	3
28306	Osteotomy, with or with	40	Hand Surgery	3
28310	Osteotomy, shortening,	40	Hand Surgery	3
28415	Open treatment of calca	40	Hand Surgery	3
28430	Closed treatment of talu	40	Hand Surgery	3
28445	Open treatment of talus	40	Hand Surgery	3
28585	Open treatment of talota	40	Hand Surgery	3
28606	Percutaneous skeletal fi	40	Hand Surgery	3
28615	Open treatment of tarso	40	Hand Surgery	3
28755	Arthrodesis, great toe; ir	40	Hand Surgery	3
29834	Arthroscopy, elbow, surg	40	Hand Surgery	3
29835	Arthroscopy, elbow, surg	40	Hand Surgery	3
29898	Arthroscopy, ankle (tibi	40	Hand Surgery	3
35371	Thromboendarterectomy	40	Hand Surgery	3
44143	Colectomy, partial; with	40	Hand Surgery	3
44204	Laparoscopy, surgical; c	40	Hand Surgery	3
49520	Repair recurrent inguina	40	Hand Surgery	3
63047	Laminectomy, facetecto	40	Hand Surgery	3
64575	Incision for implantation	40	Hand Surgery	3
64835	Suture of one nerve; me	40	Hand Surgery	3
15400	Xenograft, skin (dermal)	40	Hand Surgery	3
15110	Epidermal autograft, tru	40	Hand Surgery	2
15155	Tissue cultured epiderm	40	Hand Surgery	2
14000	Adjacent tissue transfer	40	Hand Surgery	2
14001	Adjacent tissue transfer	40	Hand Surgery	2
15170	Acellular dermal replace	40	Hand Surgery	2
15572	Formation of direct or tu	40	Hand Surgery	2
15576	Formation of direct or tu	40	Hand Surgery	2
15610	Delay of flap or sectionir	40	Hand Surgery	2
15760	Graft; composite (eg, ful	40	Hand Surgery	2
15946	Excision, ischial pressur	40	Hand Surgery	2
19120	Excision of cyst, fibroad	40	Hand Surgery	2
19125	Excision of breast lesior	40	Hand Surgery	2
19328	Removal of intact mamr	40	Hand Surgery	2
19330	Removal of mammary ir	40	Hand Surgery	2
19361	Breast reconstruction wi	40	Hand Surgery	2
20808	Replantation, hand (incl	40	Hand Surgery	2
21461	Open treatment of mand	40	Hand Surgery	2
23035	Incision, bone cortex (eg	40	Hand Surgery	2
23066	Biopsy, soft tissue of sh	40	Hand Surgery	2
23101	Arthrotomy, acromioclav	40	Hand Surgery	2
23170	Sequestrectomy (eg, for	40	Hand Surgery	2
23195	Resection, humeral hea	40	Hand Surgery	2
23397	Muscle transfer, any typ	40	Hand Surgery	2
23406	Tenotomy, shoulder are	40	Hand Surgery	2
23460	Capsulorrhaphy, anterio	40	Hand Surgery	2
23552	Open treatment of acror	40	Hand Surgery	2
23585	Open treatment of scapi	40	Hand Surgery	2
23920	Disarticulation of should	40	Hand Surgery	2
24150	Radical resection for tur	40	Hand Surgery	2
24340	Tenodesis of biceps ten	40	Hand Surgery	2

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24535	Closed treatment of sup	40	Hand Surgery	2
24920	Amputation, arm through	40	Hand Surgery	2
25316	Flexor origin slide (eg, fo	40	Hand Surgery	2
25394	Osteoplasty, carpal bone	40	Hand Surgery	2
25431	Repair of nonunion of ca	40	Hand Surgery	2
25931	Transmetacarpal amput	40	Hand Surgery	2
26260	Radical resection, proxim	40	Hand Surgery	2
26262	Radical resection, distal	40	Hand Surgery	2
26416	Removal of synthetic roc	40	Hand Surgery	2
26561	Repair of syndactyly (we	40	Hand Surgery	2
27025	Fasciotomy, hip or thigh	40	Hand Surgery	2
27062	Excision; trochanteric bu	40	Hand Surgery	2
27071	Partial excision (crateriz	40	Hand Surgery	2
27170	Bone graft, femoral head	40	Hand Surgery	2
27217	Open treatment of anter	40	Hand Surgery	2
27303	Incision, deep, with open	40	Hand Surgery	2
27327	Excision, tumor, thigh or	40	Hand Surgery	2
27331	Arthrotomy, knee; includ	40	Hand Surgery	2
27350	Patellectomy or hemipat	40	Hand Surgery	2
27381	Suture of infrapatellar te	40	Hand Surgery	2
27422	Reconstruction of disloc	40	Hand Surgery	2
27502	Closed treatment of fem	40	Hand Surgery	2
27596	Amputation, thigh, throu	40	Hand Surgery	2
27600	Decompression fascioto	40	Hand Surgery	2
27610	Arthrotomy, ankle, includ	40	Hand Surgery	2
27614	Biopsy, soft tissue of leg	40	Hand Surgery	2
27630	Excision of lesion of ten	40	Hand Surgery	2
27659	Repair, flexor tendon, le	40	Hand Surgery	2
27664	Repair, extensor tendon	40	Hand Surgery	2
27680	Tenolysis, flexor or exte	40	Hand Surgery	2
27705	Osteotomy; tibia	40	Hand Surgery	2
27725	Repair of nonunion or m	40	Hand Surgery	2
27756	Percutaneous skeletal fi	40	Hand Surgery	2
27784	Open treatment of proxim	40	Hand Surgery	2
27816	Closed treatment of trim	40	Hand Surgery	2
27826	Open treatment of fractu	40	Hand Surgery	2
27840	Closed treatment of ank	40	Hand Surgery	2
27848	Open treatment of ankle	40	Hand Surgery	2
27881	Amputation, leg, through	40	Hand Surgery	2
27886	Amputation, leg, through	40	Hand Surgery	2
28020	Arthrotomy, including ex	40	Hand Surgery	2
28022	Arthrotomy, including ex	40	Hand Surgery	2
28043	Excision, tumor, foot; su	40	Hand Surgery	2
28100	Excision or curettage of	40	Hand Surgery	2
28120	Partial excision (crateriz	40	Hand Surgery	2
28124	Partial excision (crateriz	40	Hand Surgery	2
28160	Hemiphalangectomy or	40	Hand Surgery	2
28238	Reconstruction (advanc	40	Hand Surgery	2
28456	Percutaneous skeletal fi	40	Hand Surgery	2
28476	Percutaneous skeletal fi	40	Hand Surgery	2
28496	Percutaneous skeletal fi	40	Hand Surgery	2
28725	Arthrodesis; subtalar	40	Hand Surgery	2

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29887	Arthroscopy, knee, surg	40	Hand Surgery	2
29901	Arthroscopy, metacarp	40	Hand Surgery	2
35011	Direct repair of aneurysr	40	Hand Surgery	2
35141	Direct repair of aneurysr	40	Hand Surgery	2
35266	Repair blood vessel with	40	Hand Surgery	2
36830	Creation of arteriovenou	40	Hand Surgery	2
38100	Splenectomy; total (sepa	40	Hand Surgery	2
43633	Gastrectomy, partial, dis	40	Hand Surgery	2
44005	Enterolysis (freeing of in	40	Hand Surgery	2
44140	Colectomy, partial; with	40	Hand Surgery	2
44147	Colectomy, partial; abdo	40	Hand Surgery	2
44180	Laparoscopy, surgical, e	40	Hand Surgery	2
44202	Laparoscopy, surgical; e	40	Hand Surgery	2
44950	Appendectomy;	40	Hand Surgery	2
47100	Biopsy of liver, wedge	40	Hand Surgery	2
48540	Internal anastomosis of	40	Hand Surgery	2
49561	Repair initial incisional o	40	Hand Surgery	2
49650	Laparoscopy, surgical; r	40	Hand Surgery	2
50542	Laparoscopy, surgical; a	40	Hand Surgery	2
50590	Lithotripsy, extracorpore	40	Hand Surgery	2
57240	Anterior colporrhaphy, re	40	Hand Surgery	2
57265	Combined anteroposteri	40	Hand Surgery	2
62350	Implantation, revision or	40	Hand Surgery	2
63042	Laminotomy (hemilamin	40	Hand Surgery	2
64792	Excision of neurofibroma	40	Hand Surgery	2
64891	Nerve graft (includes ob	40	Hand Surgery	2
67900	Repair of brow ptosis (s	40	Hand Surgery	2
15150	Tissue cultured epiderm	40	Hand Surgery	1
11970	Replacement of tissue e	40	Hand Surgery	1
15300	Allograft skin for tempor	40	Hand Surgery	1
15600	Delay of flap or sectionir	40	Hand Surgery	1
15650	Transfer, intermediate, c	40	Hand Surgery	1
15836	Excision, excessive skin	40	Hand Surgery	1
15842	Graft for facial nerve par	40	Hand Surgery	1
15931	Excision, sacral pressur	40	Hand Surgery	1
15934	Excision, sacral pressur	40	Hand Surgery	1
15940	Excision, ischial pressur	40	Hand Surgery	1
15941	Excision, ischial pressur	40	Hand Surgery	1
16035	Escharotomy; initial incis	40	Hand Surgery	1
19301	Mastectomy, partial (eg,	40	Hand Surgery	1
19305	Mastectomy, radical, inc	40	Hand Surgery	1
19325	Mammoplasty, augment	40	Hand Surgery	1
19350	Nipple/areola reconstruc	40	Hand Surgery	1
19370	Open periprosthetic cap	40	Hand Surgery	1
20827	Replantation, thumb (inc	40	Hand Surgery	1
20920	Fascia lata graft; by strip	40	Hand Surgery	1
20969	Free osteocutaneous fla	40	Hand Surgery	1
21235	Graft; ear cartilage, auto	40	Hand Surgery	1
21280	Medial canthopexy (sepa	40	Hand Surgery	1
21390	Open treatment of orbita	40	Hand Surgery	1
21557	Radical resection of tum	40	Hand Surgery	1
22600	Arthrodesis, posterior or	40	Hand Surgery	1

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22849	Reinsertion of spinal fixa	40	Hand Surgery	1
23044	Arthrotomy, acromioclav	40	Hand Surgery	1
23077	Radical resection of tum	40	Hand Surgery	1
23100	Arthrotomy, glenohumer	40	Hand Surgery	1
23140	Excision or curettage of	40	Hand Surgery	1
23155	Excision or curettage of	40	Hand Surgery	1
23156	Excision or curettage of	40	Hand Surgery	1
23220	Radical resection of bon	40	Hand Surgery	1
23462	Capsulorrhaphy, anterio	40	Hand Surgery	1
23466	Capsulorrhaphy, glenoh	40	Hand Surgery	1
23491	Prophylactic treatment (	40	Hand Surgery	1
23520	Closed treatment of ster	40	Hand Surgery	1
23670	Open treatment of shoul	40	Hand Surgery	1
23800	Arthrodesis, glenohume	40	Hand Surgery	1
23802	Arthrodesis, glenohume	40	Hand Surgery	1
24155	Resection of elbow joint	40	Hand Surgery	1
24332	Tenolysis, triceps	40	Hand Surgery	1
24498	Prophylactic treatment (	40	Hand Surgery	1
24577	Closed treatment of hum	40	Hand Surgery	1
24582	Percutaneous skeletal fi	40	Hand Surgery	1
24930	Amputation, arm through	40	Hand Surgery	1
25365	Osteotomy; radius AND	40	Hand Surgery	1
25392	Osteoplasty, radius AND	40	Hand Surgery	1
25443	Arthroplasty with prosthe	40	Hand Surgery	1
25492	Prophylactic treatment (	40	Hand Surgery	1
25520	Closed treatment of radi	40	Hand Surgery	1
25680	Closed treatment of tran	40	Hand Surgery	1
25690	Closed treatment of luna	40	Hand Surgery	1
25922	Disarticulation through v	40	Hand Surgery	1
26255	Radical resection, metac	40	Hand Surgery	1
26479	Shortening of tendon, fle	40	Hand Surgery	1
26555	Transfer, finger to anoth	40	Hand Surgery	1
26560	Repair of syndactyly (we	40	Hand Surgery	1
26596	Excision of constricting	40	Hand Surgery	1
26641	Closed treatment of carp	40	Hand Surgery	1
26991	Incision and drainage, p	40	Hand Surgery	1
27036	Capsulectomy or capsul	40	Hand Surgery	1
27047	Excision, tumor, pelvis a	40	Hand Surgery	1
27048	Excision, tumor, pelvis a	40	Hand Surgery	1
27049	Radical resection of tum	40	Hand Surgery	1
27054	Arthrotomy with synovec	40	Hand Surgery	1
27080	Coccygectomy, primary	40	Hand Surgery	1
27091	Removal of hip prosthes	40	Hand Surgery	1
27194	Closed treatment of pelv	40	Hand Surgery	1
27200	Closed treatment of coc	40	Hand Surgery	1
27222	Closed treatment of ace	40	Hand Surgery	1
27232	Closed treatment of fem	40	Hand Surgery	1
27295	Disarticulation of hip	40	Hand Surgery	1
27330	Arthrotomy, knee; with s	40	Hand Surgery	1
27332	Arthrotomy, with excisio	40	Hand Surgery	1
27355	Excision or curettage of	40	Hand Surgery	1
27391	Tenotomy, open, hamst	40	Hand Surgery	1

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27403	Arthrotomy with meniscu	40	Hand Surgery	1
27418	Anterior tibial tuberclepla	40	Hand Surgery	1
27450	Osteotomy, femur, shaft	40	Hand Surgery	1
27470	Repair, nonunion or mal	40	Hand Surgery	1
27472	Repair, nonunion or mal	40	Hand Surgery	1
27510	Closed treatment of fem	40	Hand Surgery	1
27540	Open treatment of interc	40	Hand Surgery	1
27550	Closed treatment of kne	40	Hand Surgery	1
27552	Closed treatment of kne	40	Hand Surgery	1
27592	Amputation, thigh, throu	40	Hand Surgery	1
27615	Radical resection of tum	40	Hand Surgery	1
27654	Repair, secondary, Achi	40	Hand Surgery	1
27695	Repair, primary, disrupte	40	Hand Surgery	1
27700	Arthroplasty, ankle;	40	Hand Surgery	1
27720	Repair of nonunion or m	40	Hand Surgery	1
27724	Repair of nonunion or m	40	Hand Surgery	1
27762	Closed treatment of mec	40	Hand Surgery	1
27842	Closed treatment of ank	40	Hand Surgery	1
28005	Incision, bone cortex (eg	40	Hand Surgery	1
28070	Synovectomy; intertarsal	40	Hand Surgery	1
28086	Synovectomy, tendon sh	40	Hand Surgery	1
28104	Excision or curettage of	40	Hand Surgery	1
28111	Ostectomy, complete ex	40	Hand Surgery	1
28126	Resection, partial or con	40	Hand Surgery	1
28130	Talectomy (astragalecto	40	Hand Surgery	1
28226	Tenolysis, extensor, foo	40	Hand Surgery	1
28230	Tenotomy, open, tendor	40	Hand Surgery	1
28288	Ostectomy, partial, exos	40	Hand Surgery	1
28290	Correction, hallux valgus	40	Hand Surgery	1
28293	Correction, hallux valgus	40	Hand Surgery	1
28298	Correction, hallux valgus	40	Hand Surgery	1
28312	Osteotomy, shortening,	40	Hand Surgery	1
28315	Sesamoidectomy, first to	40	Hand Surgery	1
28320	Repair, nonunion or mal	40	Hand Surgery	1
28475	Closed treatment of met	40	Hand Surgery	1
28505	Open treatment of fractu	40	Hand Surgery	1
28525	Open treatment of fractu	40	Hand Surgery	1
28530	Closed treatment of ses	40	Hand Surgery	1
28715	Arthrodesis; triple	40	Hand Surgery	1
28735	Arthrodesis, midtarsal o	40	Hand Surgery	1
28805	Amputation, foot; transm	40	Hand Surgery	1
28825	Amputation, toe; interph	40	Hand Surgery	1
29851	Arthroscopically aided tr	40	Hand Surgery	1
29874	Arthroscopy, knee, surg	40	Hand Surgery	1
29882	Arthroscopy, knee, surg	40	Hand Surgery	1
29884	Arthroscopy, knee, surg	40	Hand Surgery	1
29894	Arthroscopy, ankle (tibi	40	Hand Surgery	1
29899	Arthroscopy, ankle (tibi	40	Hand Surgery	1
29902	Arthroscopy, metacarp	40	Hand Surgery	1
30520	Septoplasty or submuco	40	Hand Surgery	1
31030	Sinusotomy, maxillary (a	40	Hand Surgery	1
31040	Pterygomaxillary fossa s	40	Hand Surgery	1

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34203	Embolectomy or thromb	40	Hand Surgery	1
34421	Thrombectomy, direct o	40	Hand Surgery	1
34490	Thrombectomy, direct o	40	Hand Surgery	1
34520	Cross-over vein graft to	40	Hand Surgery	1
35091	Direct repair of aneurysr	40	Hand Surgery	1
35131	Direct repair of aneurysr	40	Hand Surgery	1
35151	Direct repair of aneurysr	40	Hand Surgery	1
35190	Repair, acquired or trau	40	Hand Surgery	1
35256	Repair blood vessel with	40	Hand Surgery	1
35331	Thromboendarterectomy	40	Hand Surgery	1
35355	Thromboendarterectomy	40	Hand Surgery	1
35372	Thromboendarterectomy	40	Hand Surgery	1
35556	Bypass graft, with vein; f	40	Hand Surgery	1
35800	Exploration for postoper	40	Hand Surgery	1
35875	Thrombectomy of arteria	40	Hand Surgery	1
35876	Thrombectomy of arteria	40	Hand Surgery	1
35907	Excision of infected graf	40	Hand Surgery	1
36819	Arteriovenous anastomc	40	Hand Surgery	1
36825	Creation of arteriovenou	40	Hand Surgery	1
37700	Ligation and division of l	40	Hand Surgery	1
37765	Stab phlebectomy of var	40	Hand Surgery	1
38525	Biopsy or excision of lym	40	Hand Surgery	1
38562	Limited lymphadenector	40	Hand Surgery	1
38760	Inguinofemoral lymphad	40	Hand Surgery	1
39520	Repair, diaphragmatic h	40	Hand Surgery	1
40720	Plastic repair of cleft lip/	40	Hand Surgery	1
42410	Excision of parotid tumo	40	Hand Surgery	1
43324	Esophagogastric fundop	40	Hand Surgery	1
43620	Gastrectomy, total; with	40	Hand Surgery	1
43800	Pyloroplasty	40	Hand Surgery	1
43848	Revision, open, of gastri	40	Hand Surgery	1
43850	Revision of gastroduode	40	Hand Surgery	1
44110	Excision of one or more	40	Hand Surgery	1
44145	Colectomy, partial; with	40	Hand Surgery	1
44150	Colectomy, total, abdom	40	Hand Surgery	1
44346	Revision of colostomy; v	40	Hand Surgery	1
44602	Suture of small intestine	40	Hand Surgery	1
44603	Suture of small intestine	40	Hand Surgery	1
44604	Suture of large intestine	40	Hand Surgery	1
44626	Closure of enterostomy,	40	Hand Surgery	1
44640	Closure of intestinal cuta	40	Hand Surgery	1
44960	Appendectomy; for ruptu	40	Hand Surgery	1
44970	Laparoscopy, surgical, a	40	Hand Surgery	1
46250	Hemorrhoidectomy, exte	40	Hand Surgery	1
46260	Hemorrhoidectomy, inte	40	Hand Surgery	1
47564	Laparoscopy, surgical; c	40	Hand Surgery	1
47605	Cholecystectomy; with c	40	Hand Surgery	1
47612	Cholecystectomy with ex	40	Hand Surgery	1
48100	Biopsy of pancreas, ope	40	Hand Surgery	1
48146	Pancreatectomy, distal,	40	Hand Surgery	1
48150	Pancreatectomy, proxim	40	Hand Surgery	1
48155	Pancreatectomy, total	40	Hand Surgery	1

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49000	Exploratory laparotomy,	40	Hand Surgery	1
49002	Reopening of recent lap	40	Hand Surgery	1
49010	Exploration, retroperiton	40	Hand Surgery	1
49507	Repair initial inguinal he	40	Hand Surgery	1
49525	Repair inguinal hernia, s	40	Hand Surgery	1
49553	Repair initial femoral he	40	Hand Surgery	1
50225	Nephrectomy, including	40	Hand Surgery	1
50541	Laparoscopy, surgical; a	40	Hand Surgery	1
50545	Laparoscopy, surgical; r	40	Hand Surgery	1
50548	Laparoscopy, surgical; r	40	Hand Surgery	1
50605	Ureterotomy for insertio	40	Hand Surgery	1
50780	Ureteroneocystostomy; r	40	Hand Surgery	1
50820	Ureteroileal conduit (ilea	40	Hand Surgery	1
51555	Cystectomy, partial; com	40	Hand Surgery	1
51595	Cystectomy, complete, v	40	Hand Surgery	1
53445	Insertion of inflatable ure	40	Hand Surgery	1
53446	Removal of inflatable ure	40	Hand Surgery	1
54406	Removal of all compone	40	Hand Surgery	1
55821	Prostatectomy (including	40	Hand Surgery	1
55840	Prostatectomy, retropub	40	Hand Surgery	1
57282	Colpopexy, vaginal; extr	40	Hand Surgery	1
58720	Salpingo-oophorectomy	40	Hand Surgery	1
60260	Thyroidectomy, removal	40	Hand Surgery	1
61150	Burr hole(s) or trephine;	40	Hand Surgery	1
63301	Vertebral corpectomy (v	40	Hand Surgery	1
64712	Neuroplasty, major perip	40	Hand Surgery	1
64786	Excision of neuroma; sc	40	Hand Surgery	1
64861	Suture of; brachial plexu	40	Hand Surgery	1
64885	Nerve graft (includes ob	40	Hand Surgery	1
64896	Nerve graft (includes ob	40	Hand Surgery	1
64897	Nerve graft (includes ob	40	Hand Surgery	1
64898	Nerve graft (includes ob	40	Hand Surgery	1
67916	Repair of ectropion; exc	40	Hand Surgery	1
67923	Repair of entropion; exc	40	Hand Surgery	1
69110	Excision external ear; pa	40	Hand Surgery	1
15830	Excision, excessive skin	40	Hand Surgery	1
15420	Xenograft skin (dermal),	40	Hand Surgery	1
43845	Gastric restrictive proce	40	Hand Surgery	1
15731	Forehead flap with prese	40	Hand Surgery	1
45110	Proctectomy; complete,	40	Hand Surgery	1
35302	Thromboendarterectomy	40	Hand Surgery	0
35303	Thromboendarterectomy	40	Hand Surgery	0
35304	Thromboendarterectomy	40	Hand Surgery	0
35305	Thromboendarterectomy	40	Hand Surgery	0
45395	Laparoscopy, surgical; p	40	Hand Surgery	0
15732	Muscle, myocutaneous,	40	Hand Surgery	0
35883	Revision, femoral anast	40	Hand Surgery	0
35884	Revision, femoral anast	40	Hand Surgery	0
64910	Nerve repair; with synthe	40	Hand Surgery	0
64911	Nerve repair; with autog	40	Hand Surgery	0
58957	Resection (tumor debulk	40	Hand Surgery	0
38780	Retroperitoneal transab	40	Hand Surgery	0

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58958	Resection (tumor debulk	40	Hand Surgery	0	523,830
63047	Laminectomy, facetecto	14	Neurosurgery	44,000	
22612	Arthrodesis, posterior or	14	Neurosurgery	22,720	
22554	Arthrodesis, anterior inte	14	Neurosurgery	21,167	
63030	Laminotomy (hemilamin	14	Neurosurgery	18,840	
63075	Discectomy, anterior, wi	14	Neurosurgery	17,538	
22630	Arthrodesis, posterior in	14	Neurosurgery	11,178	
61312	Craniectomy or cranioto	14	Neurosurgery	9,487	
63042	Laminotomy (hemilamin	14	Neurosurgery	8,928	
61793	Stereotactic radiosurger	14	Neurosurgery	8,887	
62223	Creation of shunt; ventri	14	Neurosurgery	7,047	
61510	Craniectomy, trephinatic	14	Neurosurgery	6,907	
64721	Neuroplasty and/or trans	14	Neurosurgery	6,827	
61154	Burr hole(s) with evacua	14	Neurosurgery	6,725	
63045	Laminectomy, facetecto	14	Neurosurgery	4,973	
22600	Arthrodesis, posterior or	14	Neurosurgery	4,650	
63081	Vertebral corpectomy (v	14	Neurosurgery	4,306	
63056	Transpedicular approach	14	Neurosurgery	3,346	
61885	Insertion or replacemen	14	Neurosurgery	2,904	
61512	Craniectomy, trephinatic	14	Neurosurgery	2,779	
63267	Laminectomy for excisio	14	Neurosurgery	2,462	
62362	Implantation or replacen	14	Neurosurgery	2,323	
62230	Replacement or revisior	14	Neurosurgery	2,206	
22852	Removal of posterior se	14	Neurosurgery	2,003	
62350	Implantation, revision or	14	Neurosurgery	2,001	
35301	Thromboendarterectomy	14	Neurosurgery	1,816	
61313	Craniectomy or cranioto	14	Neurosurgery	1,784	
63685	Insertion or replacemen	14	Neurosurgery	1,712	
61751	Stereotactic biopsy, asp	14	Neurosurgery	1,674	
63015	Laminectomy with explo	14	Neurosurgery	1,637	
22830	Exploration of spinal fus	14	Neurosurgery	1,584	
22610	Arthrodesis, posterior or	14	Neurosurgery	1,573	
61867	Twist drill, burr hole, cra	14	Neurosurgery	1,497	
64718	Neuroplasty and/or trans	14	Neurosurgery	1,467	
61548	Hypophysectomy or exc	14	Neurosurgery	1,424	
63020	Laminotomy (hemilamin	14	Neurosurgery	1,389	
63655	Laminectomy for implan	14	Neurosurgery	1,364	
22855	Removal of anterior inst	14	Neurosurgery	1,359	
22558	Arthrodesis, anterior inte	14	Neurosurgery	1,351	
63012	Laminectomy with remo	14	Neurosurgery	1,337	
63046	Laminectomy, facetecto	14	Neurosurgery	1,205	
61518	Craniectomy for excisior	14	Neurosurgery	1,169	
62140	Cranioplasty for skull de	14	Neurosurgery	1,116	
20926	Tissue grafts, other (eg,	14	Neurosurgery	1,077	
20661	Application of halo, inclu	14	Neurosurgery	1,026	
61700	Surgery of simple intrac	14	Neurosurgery	999	
63660	Revision or removal of s	14	Neurosurgery	992	
63688	Revision or removal of il	14	Neurosurgery	961	
22595	Arthrodesis, posterior te	14	Neurosurgery	960	
22850	Removal of posterior no	14	Neurosurgery	867	
22325	Open treatment and/or r	14	Neurosurgery	861	
22102	Partial excision of poste	14	Neurosurgery	841	

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61697	Surgery of complex intra	14	Neurosurgery	839
63017	Laminectomy with explo	14	Neurosurgery	806
64573	Incision for implantation	14	Neurosurgery	792
22849	Reinsertion of spinal fixa	14	Neurosurgery	787
63005	Laminectomy with explo	14	Neurosurgery	786
62141	Cranioplasty for skull de	14	Neurosurgery	779
63276	Laminectomy for biopsy	14	Neurosurgery	740
63707	Repair of dural/cerebros	14	Neurosurgery	737
61790	Creation of lesion by ste	14	Neurosurgery	724
62256	Removal of complete ce	14	Neurosurgery	675
63650	Percutaneous implantati	14	Neurosurgery	663
61886	Insertion or replacement	14	Neurosurgery	659
61750	Stereotactic biopsy, asp	14	Neurosurgery	639
61108	Twist drill hole(s) for sub	14	Neurosurgery	637
63001	Laminectomy with explo	14	Neurosurgery	608
22326	Open treatment and/or r	14	Neurosurgery	602
22318	Open treatment and/or r	14	Neurosurgery	586
62225	Replacement or irrigatio	14	Neurosurgery	569
22590	Arthrodesis, posterior te	14	Neurosurgery	549
63281	Laminectomy for biopsy	14	Neurosurgery	536
62258	Removal of complete ce	14	Neurosurgery	529
61315	Craniectomy or cranioto	14	Neurosurgery	524
61618	Secondary repair of dura	14	Neurosurgery	518
61458	Craniectomy, suboccipit	14	Neurosurgery	512
62365	Removal of subcutaneo	14	Neurosurgery	508
63709	Repair of dural/cerebros	14	Neurosurgery	487
22310	Closed treatment of vert	14	Neurosurgery	486
63266	Laminectomy for excisio	14	Neurosurgery	481
62355	Removal of previously ir	14	Neurosurgery	480
63055	Transpedicular approach	14	Neurosurgery	450
13160	Secondary closure of su	14	Neurosurgery	445
29848	Endoscopy, wrist, surgic	14	Neurosurgery	441
63277	Laminectomy for biopsy	14	Neurosurgery	432
22214	Osteotomy of spine, pos	14	Neurosurgery	417
63051	Laminoplasty, cervical, v	14	Neurosurgery	384
22556	Arthrodesis, anterior inte	14	Neurosurgery	376
63090	Vertebral corpectomy (v	14	Neurosurgery	370
61314	Craniectomy or cranioto	14	Neurosurgery	363
64722	Decompression; unspec	14	Neurosurgery	351
63282	Laminectomy for biopsy	14	Neurosurgery	347
63710	Dural graft, spinal	14	Neurosurgery	347
62142	Removal of bone flap or	14	Neurosurgery	340
61140	Burr hole(s) or trephine;	14	Neurosurgery	337
61343	Craniectomy, suboccipit	14	Neurosurgery	329
61500	Craniectomy; with excisi	14	Neurosurgery	324
62143	Replacement of bone fla	14	Neurosurgery	324
61601	Resection or excision of	14	Neurosurgery	323
37215	Transcatheter placemer	14	Neurosurgery	313
61519	Craniectomy for excision	14	Neurosurgery	307
22015	Incision and drainage, o	14	Neurosurgery	304
22533	Arthrodesis, lateral extra	14	Neurosurgery	286
22327	Open treatment and/or r	14	Neurosurgery	283

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63272	Laminectomy for excisio	14	Neurosurgery	277
63265	Laminectomy for excisio	14	Neurosurgery	272
61304	Craniectomy or cranioto	14	Neurosurgery	270
63085	Vertebral corpectomy (v	14	Neurosurgery	269
61320	Craniectomy or cranioto	14	Neurosurgery	266
61215	Insertion of subcutaneou	14	Neurosurgery	265
61592	Orbitocranial zygomatic	14	Neurosurgery	255
22315	Closed treatment of vert	14	Neurosurgery	254
63003	Laminectomy with explo	14	Neurosurgery	254
63087	Vertebral corpectomy (v	14	Neurosurgery	244
63040	Laminotomy (hemilamin	14	Neurosurgery	243
61863	Twist drill, burr hole, cra	14	Neurosurgery	236
61880	Revision or removal of in	14	Neurosurgery	233
61520	Craniectomy for excisio	14	Neurosurgery	227
61616	Resection or excision of	14	Neurosurgery	226
62100	Craniotomy for repair of	14	Neurosurgery	223
62192	Creation of shunt; subar	14	Neurosurgery	218
61583	Craniofacial approach to	14	Neurosurgery	208
15770	Graft; derma-fat-fascia	14	Neurosurgery	207
61608	Resection or excision of	14	Neurosurgery	199
63280	Laminectomy for biopsy,	14	Neurosurgery	197
62165	Neuroendoscopy, intrac	14	Neurosurgery	194
61584	Orbitocranial approach t	14	Neurosurgery	192
62220	Creation of shunt; ventri	14	Neurosurgery	192
63271	Laminectomy for excisio	14	Neurosurgery	190
20680	Removal of implant; dee	14	Neurosurgery	186
64708	Neuroplasty, major perip	14	Neurosurgery	185
63016	Laminectomy with explo	14	Neurosurgery	182
63741	Creation of shunt, lumba	14	Neurosurgery	179
61322	Craniectomy or cranioto	14	Neurosurgery	169
63275	Laminectomy for biopsy,	14	Neurosurgery	167
63101	Vertebral corpectomy (v	14	Neurosurgery	164
61156	Burr hole(s); with aspira	14	Neurosurgery	154
22800	Arthrodesis, posterior, fo	14	Neurosurgery	149
62351	Implantation, revision or	14	Neurosurgery	149
61514	Craniectomy, trephinatio	14	Neurosurgery	145
63102	Vertebral corpectomy (v	14	Neurosurgery	142
27447	Arthroplasty, knee, cond	14	Neurosurgery	141
62360	Implantation or replacen	14	Neurosurgery	141
61537	Craniotomy with elevatio	14	Neurosurgery	138
63077	Discectomy, anterior, wi	14	Neurosurgery	130
22802	Arthrodesis, posterior, fo	14	Neurosurgery	128
61619	Secondary repair of dura	14	Neurosurgery	127
63172	Laminectomy with draina	14	Neurosurgery	123
63200	Laminectomy, with relea	14	Neurosurgery	121
64714	Neuroplasty, major perip	14	Neurosurgery	121
62145	Cranioplasty for skull de	14	Neurosurgery	120
63286	Laminectomy for biopsy,	14	Neurosurgery	120
22010	Incision and drainage, o	14	Neurosurgery	116
61105	Twist drill hole for subdu	14	Neurosurgery	113
61682	Surgery of intracranial a	14	Neurosurgery	113
61533	Craniotomy with elevatio	14	Neurosurgery	110

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61516	Craniectomy, trephining	14	Neurosurgery	104
63011	Laminectomy with exploratory	14	Neurosurgery	104
61791	Creation of lesion by stereotactic	14	Neurosurgery	103
63744	Replacement, irrigation and	14	Neurosurgery	99
22808	Arthrodesis, anterior, for	14	Neurosurgery	98
61680	Surgery of intracranial aneurysm	14	Neurosurgery	97
61606	Resection or excision of	14	Neurosurgery	96
63064	Costovertebral approach	14	Neurosurgery	96
62161	Neuroendoscopy, intracranial	14	Neurosurgery	93
61546	Craniotomy for hypophysectomy	14	Neurosurgery	92
61120	Burr hole(s) for ventricular	14	Neurosurgery	89
62201	Ventriculocisternostomy	14	Neurosurgery	87
61323	Craniectomy or craniotomy	14	Neurosurgery	86
63270	Laminectomy for excision of	14	Neurosurgery	86
61711	Anastomosis, arterial, extracranial	14	Neurosurgery	84
63740	Creation of shunt, lumbar	14	Neurosurgery	84
21501	Incision and drainage, dural	14	Neurosurgery	83
61595	Transtemporal approach	14	Neurosurgery	83
61150	Burr hole(s) or trephine; for	14	Neurosurgery	80
61770	Stereotactic localization, for	14	Neurosurgery	80
61597	Transcondylar (far lateral)	14	Neurosurgery	78
62010	Elevation of depressed skull	14	Neurosurgery	78
61521	Craniectomy for excision of	14	Neurosurgery	76
61538	Craniotomy with elevation of	14	Neurosurgery	76
63300	Vertebral corpectomy (vertebral	14	Neurosurgery	76
63287	Laminectomy for biopsy	14	Neurosurgery	74
61600	Resection or excision of	14	Neurosurgery	73
22100	Partial excision of posterior	14	Neurosurgery	72
62200	Ventriculocisternostomy	14	Neurosurgery	72
22220	Osteotomy of spine, including	14	Neurosurgery	71
20922	Fascia lata graft; by incision	14	Neurosurgery	69
27236	Open treatment of femoral	14	Neurosurgery	69
64772	Transection or avulsion	14	Neurosurgery	68
63290	Laminectomy for biopsy	14	Neurosurgery	66
22224	Osteotomy of spine, including	14	Neurosurgery	65
61710	Surgery of aneurysm, vertebral	14	Neurosurgery	64
22212	Osteotomy of spine, posterior	14	Neurosurgery	63
61760	Stereotactic implantation	14	Neurosurgery	62
61698	Surgery of complex intracranial	14	Neurosurgery	60
20902	Bone graft, any donor area	14	Neurosurgery	59
22548	Arthrodesis, anterior transverse	14	Neurosurgery	58
62146	Cranioplasty with autograft	14	Neurosurgery	58
64719	Neuroplasty and/or transection	14	Neurosurgery	57
22210	Osteotomy of spine, posterior	14	Neurosurgery	56
63285	Laminectomy for biopsy	14	Neurosurgery	56
27130	Arthroplasty, acetabular	14	Neurosurgery	55
63185	Laminectomy with rhizotomy	14	Neurosurgery	54
20900	Bone graft, any donor area	14	Neurosurgery	53
22532	Arthrodesis, lateral extra-articular	14	Neurosurgery	53
61501	Craniectomy; for osteomyelitis	14	Neurosurgery	53
63251	Laminectomy for excision of	14	Neurosurgery	51
22305	Closed treatment of vertebral	14	Neurosurgery	50

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61345	Other cranial decompre	14	Neurosurgery	50
61575	Transoral approach to s	14	Neurosurgery	50
63050	Laminoplasty, cervical, v	14	Neurosurgery	50
63278	Laminectomy for biopsy	14	Neurosurgery	49
64575	Incision for implantation	14	Neurosurgery	49
28035	Release, tarsal tunnel (p	14	Neurosurgery	48
61582	Craniofacial approach to	14	Neurosurgery	48
62147	Cranioplasty with autogr	14	Neurosurgery	48
64713	Neuroplasty, major perip	14	Neurosurgery	48
62180	Ventriculocisternostomy	14	Neurosurgery	47
64704	Neuroplasty; nerve of ha	14	Neurosurgery	47
33533	Coronary artery bypass,	14	Neurosurgery	46
61702	Surgery of simple intrac	14	Neurosurgery	45
61686	Surgery of intracranial a	14	Neurosurgery	44
64790	Excision of neurofibroma	14	Neurosurgery	43
22110	Partial excision of verteb	14	Neurosurgery	42
61305	Craniectomy or cranioto	14	Neurosurgery	42
63746	Removal of entire lumbar	14	Neurosurgery	42
64712	Neuroplasty, major perip	14	Neurosurgery	42
61460	Craniectomy, suboccipit	14	Neurosurgery	41
62287	Aspiration or decompres	14	Neurosurgery	41
15731	Forehead flap with prese	14	Neurosurgery	40
64744	Transection or avulsion	14	Neurosurgery	39
61524	Craniectomy, infratentor	14	Neurosurgery	38
61526	Craniectomy, bone flap	14	Neurosurgery	38
64792	Excision of neurofibroma	14	Neurosurgery	38
35701	Exploration (not followe	14	Neurosurgery	37
61615	Resection or excision of	14	Neurosurgery	37
21930	Excision, tumor, soft tiss	14	Neurosurgery	36
22114	Partial excision of verteb	14	Neurosurgery	36
31085	Sinusotomy frontal; oblit	14	Neurosurgery	36
22101	Partial excision of poste	14	Neurosurgery	35
61535	Craniotomy with elevatic	14	Neurosurgery	35
61590	Infratemporal pre-auricu	14	Neurosurgery	35
31081	Sinusotomy frontal; oblit	14	Neurosurgery	34
61340	Subtemporal cranial dec	14	Neurosurgery	34
61531	Subdural implantation of	14	Neurosurgery	34
15734	Muscle, myocutaneous,	14	Neurosurgery	33
61545	Craniotomy with elevatic	14	Neurosurgery	33
22804	Arthrodesis, posterior, fo	14	Neurosurgery	32
21015	Radical resection of tum	14	Neurosurgery	31
61536	Craniotomy with elevatic	14	Neurosurgery	31
27216	Percutaneous skeletal fi	14	Neurosurgery	30
61596	Transcochlear approach	14	Neurosurgery	30
61607	Resection or excision of	14	Neurosurgery	30
62164	Neuroendoscopy, intrac	14	Neurosurgery	30
63190	Laminectomy with rhizot	14	Neurosurgery	30
22810	Arthrodesis, anterior, for	14	Neurosurgery	29
61566	Craniotomy with elevatic	14	Neurosurgery	29
22818	Kyphectomy, circumfere	14	Neurosurgery	28
61250	Burr hole(s) or trephine,	14	Neurosurgery	28
61321	Craniectomy or cranioto	14	Neurosurgery	28

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63268	Laminectomy for excisio	14	Neurosurgery	28
62162	Neuroendoscopy, intrac	14	Neurosurgery	27
27280	Arthrodesis, sacroiliac j	14	Neurosurgery	26
61570	Craniectomy or cranioto	14	Neurosurgery	26
61598	Transpetrosal approach	14	Neurosurgery	26
61684	Surgery of intracranial a	14	Neurosurgery	26
61692	Surgery of intracranial a	14	Neurosurgery	26
62361	Implantation or replacen	14	Neurosurgery	26
61534	Craniotomy with elevatic	14	Neurosurgery	25
61860	Craniectomy or cranioto	14	Neurosurgery	25
49000	Exploratory laparotomy,	14	Neurosurgery	24
61591	Infratemporal post-auric	14	Neurosurgery	24
61605	Resection or excision of	14	Neurosurgery	24
63301	Vertebral corpectomy (v	14	Neurosurgery	24
15732	Muscle, myocutaneous,	14	Neurosurgery	24
61540	Craniotomy with elevatic	14	Neurosurgery	23
61613	Obliteration of carotid ar	14	Neurosurgery	22
62005	Elevation of depressed s	14	Neurosurgery	22
63173	Laminectomy with draina	14	Neurosurgery	22
21555	Excision tumor, soft tiss	14	Neurosurgery	21
61450	Craniectomy, subtempo	14	Neurosurgery	21
61571	Craniectomy or cranioto	14	Neurosurgery	21
61720	Creation of lesion by ste	14	Neurosurgery	21
25020	Decompression fascioto	14	Neurosurgery	20
61580	Craniofacial approach to	14	Neurosurgery	20
62120	Repair of encephalocele	14	Neurosurgery	20
63252	Laminectomy for excisio	14	Neurosurgery	20
64788	Excision of neurofibroma	14	Neurosurgery	20
26045	Fasciotomy, palmar (eg,	14	Neurosurgery	19
35800	Exploration for postoper	14	Neurosurgery	19
61581	Craniofacial approach to	14	Neurosurgery	19
61586	Bicoronal, transzygomat	14	Neurosurgery	19
15335	Acellular dermal allograf	14	Neurosurgery	18
27244	Treatment of intertrocha	14	Neurosurgery	18
61530	Craniectomy, bone flap	14	Neurosurgery	18
63273	Laminectomy for excisio	14	Neurosurgery	18
63283	Laminectomy for biopsy	14	Neurosurgery	18
63302	Vertebral corpectomy (v	14	Neurosurgery	18
64734	Transection or avulsion	14	Neurosurgery	18
20664	Application of halo, inclu	14	Neurosurgery	17
21925	Biopsy, soft tissue of ba	14	Neurosurgery	17
62190	Creation of shunt; subar	14	Neurosurgery	17
63303	Vertebral corpectomy (v	14	Neurosurgery	17
14020	Adjacent tissue transfer	14	Neurosurgery	16
61151	Burr hole(s) or trephine;	14	Neurosurgery	16
61333	Exploration of orbit (tran	14	Neurosurgery	16
14021	Adjacent tissue transfer	14	Neurosurgery	15
22319	Open treatment and/or r	14	Neurosurgery	15
57288	Sling operation for stres	14	Neurosurgery	15
62000	Elevation of depressed s	14	Neurosurgery	15
77778	Interstitial radiation sour	14	Neurosurgery	15
29826	Arthroscopy, shoulder, s	14	Neurosurgery	14

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21556	Excision tumor, soft tiss	14	Neurosurgery	13
26130	Synovectomy, carpomet	14	Neurosurgery	13
44005	Enterolysis (freeing of in	14	Neurosurgery	13
44140	Colectomy, partial; with	14	Neurosurgery	13
61539	Craniotomy with elevatic	14	Neurosurgery	13
61585	Orbitocranial approach t	14	Neurosurgery	13
62121	Craniotomy for repair of	14	Neurosurgery	13
14001	Adjacent tissue transfer	14	Neurosurgery	12
22112	Partial excision of verteb	14	Neurosurgery	12
35656	Bypass graft, with other	14	Neurosurgery	12
37605	Ligation; internal or com	14	Neurosurgery	12
47562	Laparoscopy, surgical; c	14	Neurosurgery	12
57282	Colpopexy, vaginal; extr	14	Neurosurgery	12
58150	Total abdominal hystere	14	Neurosurgery	12
61522	Craniectomy, infratentor	14	Neurosurgery	12
63700	Repair of meningocele;	14	Neurosurgery	12
64716	Neuroplasty and/or trans	14	Neurosurgery	12
64784	Excision of neuroma; ma	14	Neurosurgery	12
21610	Costotransversectomy (	14	Neurosurgery	11
21935	Radical resection of tum	14	Neurosurgery	11
35879	Revision, lower extremity	14	Neurosurgery	11
57265	Combined anteroposteri	14	Neurosurgery	11
64732	Transection or avulsion	14	Neurosurgery	11
14000	Adjacent tissue transfer	14	Neurosurgery	10
21344	Open treatment of comp	14	Neurosurgery	10
21557	Radical resection of tum	14	Neurosurgery	10
25111	Excision of ganglion, wri	14	Neurosurgery	10
29827	Arthroscopy, shoulder, s	14	Neurosurgery	10
30520	Septoplasty or submucod	14	Neurosurgery	10
36821	Arteriovenous anastomc	14	Neurosurgery	10
67570	Optic nerve decompress	14	Neurosurgery	10
21600	Excision of rib, partial	14	Neurosurgery	9
23120	Claviclectomy; partial	14	Neurosurgery	9
27080	Coccygectomy, primary	14	Neurosurgery	9
27324	Biopsy, soft tissue of thi	14	Neurosurgery	9
35583	In-situ vein bypass; fem	14	Neurosurgery	9
37620	Interruption, partial or c	14	Neurosurgery	9
57240	Anterior colporrhaphy, re	14	Neurosurgery	9
61332	Exploration of orbit (tran	14	Neurosurgery	9
61705	Surgery of aneurysm, va	14	Neurosurgery	9
63250	Laminectomy for excisio	14	Neurosurgery	9
77777	Interstitial radiation sour	14	Neurosurgery	9
15839	Excision, excessive skin	14	Neurosurgery	8
21172	Reconstruction superior	14	Neurosurgery	8
22812	Arthrodesis, anterior, for	14	Neurosurgery	8
23420	Reconstruction of comp	14	Neurosurgery	8
27125	Hemiarthroplasty, hip, p	14	Neurosurgery	8
27215	Open treatment of iliac s	14	Neurosurgery	8
27614	Biopsy, soft tissue of leg	14	Neurosurgery	8
31050	Sinusotomy, sphenoid, v	14	Neurosurgery	8
35371	Thromboendarterectomy	14	Neurosurgery	8
49215	Excision of presacral or	14	Neurosurgery	8

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49425	Insertion of peritoneal-ve	14	Neurosurgery	8
61541	Craniotomy with elevatic	14	Neurosurgery	8
61563	Excision, intra and extra	14	Neurosurgery	8
61564	Excision, intra and extra	14	Neurosurgery	8
63170	Laminectomy with myelo	14	Neurosurgery	8
63304	Vertebral corpectomy (v	14	Neurosurgery	8
64771	Transection or avulsion	14	Neurosurgery	8
15750	Flap; neurovascular ped	14	Neurosurgery	7
19260	Excision of chest wall tu	14	Neurosurgery	7
23076	Excision, soft tissue tum	14	Neurosurgery	7
27245	Treatment of intertrocha	14	Neurosurgery	7
35201	Repair blood vessel, dire	14	Neurosurgery	7
37606	Ligation; internal or com	14	Neurosurgery	7
47563	Laparoscopy, surgical; c	14	Neurosurgery	7
47600	Cholecystectomy;	14	Neurosurgery	7
49560	Repair initial incisional o	14	Neurosurgery	7
57250	Posterior colporrhaphy,	14	Neurosurgery	7
58200	Total abdominal hystere	14	Neurosurgery	7
61490	Craniotomy for lobotomy	14	Neurosurgery	7
63706	Repair of myelomeningo	14	Neurosurgery	7
64774	Excision of neuroma; cu	14	Neurosurgery	7
64786	Excision of neuroma; sc	14	Neurosurgery	7
20920	Fascia lata graft; by strip	14	Neurosurgery	6
21182	Reconstruction of orbita	14	Neurosurgery	6
21615	Excision first and/or cerv	14	Neurosurgery	6
21700	Division of scalenus anti	14	Neurosurgery	6
22819	Kyphectomy, circumfere	14	Neurosurgery	6
24066	Biopsy, soft tissue of up	14	Neurosurgery	6
26990	Incision and drainage, p	14	Neurosurgery	6
32100	Thoracotomy, major; wit	14	Neurosurgery	6
35355	Thromboendarterectomy	14	Neurosurgery	6
49020	Drainage of peritoneal a	14	Neurosurgery	6
49421	Insertion of intraperitone	14	Neurosurgery	6
57260	Combined anteroposteri	14	Neurosurgery	6
58260	Vaginal hysterectomy, fo	14	Neurosurgery	6
60600	Excision of carotid body	14	Neurosurgery	6
61556	Craniotomy for cranosy	14	Neurosurgery	6
61690	Surgery of intracranial a	14	Neurosurgery	6
62292	Injection procedure for c	14	Neurosurgery	6
58552	Laparoscopy, surgical, v	14	Neurosurgery	6
32503	Resection of apical lung	14	Neurosurgery	5
20693	Adjustment or revision c	14	Neurosurgery	5
20912	Cartilage graft; nasal se	14	Neurosurgery	5
23410	Repair of ruptured musc	14	Neurosurgery	5
24140	Partial excision (crateriz	14	Neurosurgery	5
27049	Radical resection of tum	14	Neurosurgery	5
27218	Open treatment of poste	14	Neurosurgery	5
27590	Amputation, thigh, throu	14	Neurosurgery	5
31051	Sinusotomy, sphenoid, v	14	Neurosurgery	5
33405	Replacement, aortic valv	14	Neurosurgery	5
35661	Bypass graft, with other	14	Neurosurgery	5
35761	Exploration (not followe	14	Neurosurgery	5

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61253	Burr hole(s) or trephine,	14	Neurosurgery	5
61330	Decompression of orbit	14	Neurosurgery	5
61557	Craniotomy for craniosty	14	Neurosurgery	5
61567	Craniotomy with elevatic	14	Neurosurgery	5
62163	Neuroendoscopy, intrac	14	Neurosurgery	5
63702	Repair of meningocele;	14	Neurosurgery	5
64856	Suture of major periphe	14	Neurosurgery	5
15572	Formation of direct or tu	14	Neurosurgery	4
21510	Incision, deep, with oper	14	Neurosurgery	4
23470	Arthroplasty, glenohume	14	Neurosurgery	4
23615	Open treatment of proxi	14	Neurosurgery	4
24075	Excision, tumor, soft tiss	14	Neurosurgery	4
24076	Excision, tumor, soft tiss	14	Neurosurgery	4
26055	Tendon sheath incision	14	Neurosurgery	4
26121	Fasciectomy, palm only,	14	Neurosurgery	4
34001	Embolectomy or thromb	14	Neurosurgery	4
35501	Bypass graft, with vein; e	14	Neurosurgery	4
35721	Exploration (not followe	14	Neurosurgery	4
43300	Esophagoplasty (plastic	14	Neurosurgery	4
49040	Drainage of subdiaphrag	14	Neurosurgery	4
49060	Drainage of retroperiton	14	Neurosurgery	4
49426	Revision of peritoneal-ve	14	Neurosurgery	4
61440	Craniotomy for section c	14	Neurosurgery	4
61544	Craniotomy with elevatic	14	Neurosurgery	4
61703	Surgery of intracranial a	14	Neurosurgery	4
61708	Surgery of aneurysm, va	14	Neurosurgery	4
61735	Creation of lesion by ste	14	Neurosurgery	4
61850	Twist drill or burr hole(s)	14	Neurosurgery	4
62116	Reduction of craniomeg	14	Neurosurgery	4
63305	Vertebral corpectomy (v	14	Neurosurgery	4
63600	Creation of lesion of spi	14	Neurosurgery	4
63615	Stereotactic biopsy, asp	14	Neurosurgery	4
64804	Sympathectomy, cervicc	14	Neurosurgery	4
69720	Decompression facial ne	14	Neurosurgery	4
64910	Nerve repair; with synthe	14	Neurosurgery	3
64911	Nerve repair; with autog	14	Neurosurgery	3
15320	Allograft skin for tempor	14	Neurosurgery	3
16035	Escharotomy; initial inc	14	Neurosurgery	3
20690	Application of a uniplane	14	Neurosurgery	3
20694	Removal, under anesthe	14	Neurosurgery	3
22222	Osteotomy of spine, incl	14	Neurosurgery	3
23066	Biopsy, soft tissue of sh	14	Neurosurgery	3
23472	Arthroplasty, glenohume	14	Neurosurgery	3
24516	Treatment of humeral sh	14	Neurosurgery	3
25076	Excision, tumor, soft tiss	14	Neurosurgery	3
25105	Arthrotomy, wrist joint; w	14	Neurosurgery	3
27446	Arthroplasty, knee, cond	14	Neurosurgery	3
27880	Amputation, leg, through	14	Neurosurgery	3
32140	Thoracotomy, major; wit	14	Neurosurgery	3
32662	Thoracoscopy, surgical;	14	Neurosurgery	3
35141	Direct repair of aneurysr	14	Neurosurgery	3
35151	Direct repair of aneurysr	14	Neurosurgery	3

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35351	Thromboendarterectomy	14	Neurosurgery	3
35820	Exploration for postoper	14	Neurosurgery	3
44145	Colectomy, partial; with	14	Neurosurgery	3
44180	Laparoscopy, surgical, e	14	Neurosurgery	3
49419	Insertion of intraperitone	14	Neurosurgery	3
49561	Repair initial incisional o	14	Neurosurgery	3
50545	Laparoscopy, surgical; r	14	Neurosurgery	3
54405	Insertion of multi-compo	14	Neurosurgery	3
58952	Resection (initial) of ova	14	Neurosurgery	3
61470	Craniectomy, suboccipit	14	Neurosurgery	3
61542	Craniotomy with elevatic	14	Neurosurgery	3
62294	Injection procedure, arte	14	Neurosurgery	3
63704	Repair of myelomeningo	14	Neurosurgery	3
64577	Incision for implantation	14	Neurosurgery	3
64738	Transection or avulsion	14	Neurosurgery	3
64742	Transection or avulsion	14	Neurosurgery	3
64857	Suture of major peripher	14	Neurosurgery	3
64868	Anastomosis; facial-hyp	14	Neurosurgery	3
64892	Nerve graft (includes ob	14	Neurosurgery	3
67420	Orbitotomy with bone fla	14	Neurosurgery	3
77763	Intracavitary radiation sc	14	Neurosurgery	3
38770	Pelvic lymphadenectom	14	Neurosurgery	3
11771	Excision of pilonidal cys	14	Neurosurgery	2
14040	Adjacent tissue transfer	14	Neurosurgery	2
14041	Adjacent tissue transfer	14	Neurosurgery	2
15330	Acellular dermal allograf	14	Neurosurgery	2
15756	Free muscle or myocuta	14	Neurosurgery	2
19303	Mastectomy, simple, cor	14	Neurosurgery	2
19307	Mastectomy, modified ra	14	Neurosurgery	2
21030	Excision of benign tumo	14	Neurosurgery	2
21179	Reconstruction, entire o	14	Neurosurgery	2
21181	Reconstruction by conto	14	Neurosurgery	2
21407	Open treatment of fractu	14	Neurosurgery	2
21800	Closed treatment of rib f	14	Neurosurgery	2
22900	Excision, abdominal wal	14	Neurosurgery	2
23480	Osteotomy, clavicle, with	14	Neurosurgery	2
23616	Open treatment of proxi	14	Neurosurgery	2
24147	Partial excision (crateriz	14	Neurosurgery	2
24301	Muscle or tendon transfe	14	Neurosurgery	2
25112	Excision of ganglion, wri	14	Neurosurgery	2
25115	Radical excision of burs	14	Neurosurgery	2
25248	Exploration with remova	14	Neurosurgery	2
25545	Open treatment of ulnar	14	Neurosurgery	2
25575	Open treatment of radia	14	Neurosurgery	2
26160	Excision of lesion of ten	14	Neurosurgery	2
26170	Excision of tendon, palm	14	Neurosurgery	2
26215	Excision or curettage of	14	Neurosurgery	2
27006	Tenotomy, abductors an	14	Neurosurgery	2
27041	Biopsy, soft tissue of pe	14	Neurosurgery	2
27047	Excision, tumor, pelvis a	14	Neurosurgery	2
27048	Excision, tumor, pelvis a	14	Neurosurgery	2
27134	Revision of total hip arth	14	Neurosurgery	2

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27137	Revision of total hip arth	14	Neurosurgery	2
27329	Radical resection of tum	14	Neurosurgery	2
27345	Excision of synovial cyst	14	Neurosurgery	2
27486	Revision of total knee ar	14	Neurosurgery	2
27487	Revision of total knee ar	14	Neurosurgery	2
27506	Open treatment of femo	14	Neurosurgery	2
29824	Arthroscopy, shoulder, s	14	Neurosurgery	2
31080	Sinusotomy frontal; oblit	14	Neurosurgery	2
31087	Sinusotomy frontal; nonc	14	Neurosurgery	2
32664	Thoracoscopy, surgical;	14	Neurosurgery	2
32900	Resection of ribs, extrap	14	Neurosurgery	2
33426	Valvuloplasty, mitral valv	14	Neurosurgery	2
33430	Replacement, mitral valv	14	Neurosurgery	2
33511	Coronary artery bypass,	14	Neurosurgery	2
35001	Direct repair of aneurysr	14	Neurosurgery	2
35102	Direct repair of aneurysr	14	Neurosurgery	2
35556	Bypass graft, with vein; t	14	Neurosurgery	2
35571	Bypass graft, with vein;	14	Neurosurgery	2
35606	Bypass graft, with other	14	Neurosurgery	2
35621	Bypass graft, with other	14	Neurosurgery	2
35665	Bypass graft, with other	14	Neurosurgery	2
37616	Ligation, major artery (e	14	Neurosurgery	2
37760	Ligation of perforator ve	14	Neurosurgery	2
42725	Incision and drainage ab	14	Neurosurgery	2
43830	Gastrostomy, open; with	14	Neurosurgery	2
43832	Gastrostomy, open; with	14	Neurosurgery	2
44120	Enterectomy, resection o	14	Neurosurgery	2
44143	Colectomy, partial; with	14	Neurosurgery	2
44160	Colectomy, partial, with	14	Neurosurgery	2
44346	Revision of colostomy; v	14	Neurosurgery	2
44602	Suture of small intestine	14	Neurosurgery	2
44604	Suture of large intestine	14	Neurosurgery	2
44950	Appendectomy;	14	Neurosurgery	2
44970	Laparoscopy, surgical, a	14	Neurosurgery	2
49002	Reopening of recent lap	14	Neurosurgery	2
49010	Exploration, retroperiton	14	Neurosurgery	2
49402	Removal of peritoneal fo	14	Neurosurgery	2
49585	Repair umbilical hernia,	14	Neurosurgery	2
50020	Drainage of perirenal or	14	Neurosurgery	2
56620	Vulvectomy simple; part	14	Neurosurgery	2
57268	Repair of enterocele, va	14	Neurosurgery	2
57280	Colpopexy, abdominal a	14	Neurosurgery	2
58720	Salpingo-oophorectomy	14	Neurosurgery	2
58951	Resection (initial) of ova	14	Neurosurgery	2
58953	Bilateral salpingo-oopho	14	Neurosurgery	2
60500	Parathyroidectomy or ex	14	Neurosurgery	2
61543	Craniotomy with elevatic	14	Neurosurgery	2
61870	Craniectomy for implant	14	Neurosurgery	2
63180	Laminectomy and sectic	14	Neurosurgery	2
63194	Laminectomy with cordc	14	Neurosurgery	2
63195	Laminectomy with cordc	14	Neurosurgery	2
63306	Vertebral corpectomy (v	14	Neurosurgery	2

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64802	Sympathectomy, cervical	14	Neurosurgery	2
64898	Nerve graft (includes ob	14	Neurosurgery	2
67400	Orbitotomy without bone	14	Neurosurgery	2
69950	Vestibular nerve section	14	Neurosurgery	2
69955	Total facial nerve decom	14	Neurosurgery	2
69960	Decompression internal	14	Neurosurgery	2
35883	Revision, femoral anasto	14	Neurosurgery	2
35884	Revision, femoral anasto	14	Neurosurgery	2
15120	Split-thickness autograft	14	Neurosurgery	2
33254	Operative tissue ablation	14	Neurosurgery	1
45110	Proctectomy; complete,	14	Neurosurgery	1
33256	Operative tissue ablation	14	Neurosurgery	1
15175	Acellular dermal replace	14	Neurosurgery	1
15430	Acellular xenograft impla	14	Neurosurgery	1
11971	Removal of tissue expan	14	Neurosurgery	1
14300	Adjacent tissue transfer	14	Neurosurgery	1
15220	Full thickness graft, free	14	Neurosurgery	1
15260	Full thickness graft, free	14	Neurosurgery	1
15570	Formation of direct or tu	14	Neurosurgery	1
15740	Flap; island pedicle	14	Neurosurgery	1
15931	Excision, sacral pressur	14	Neurosurgery	1
15937	Excision, sacral pressur	14	Neurosurgery	1
19272	Excision of chest wall tu	14	Neurosurgery	1
19328	Removal of intact mamr	14	Neurosurgery	1
19342	Delayed insertion of bre	14	Neurosurgery	1
19357	Breast reconstruction, in	14	Neurosurgery	1
19371	Periprosthetic capsulect	14	Neurosurgery	1
20692	Application of a multipla	14	Neurosurgery	1
20956	Bone graft with microvas	14	Neurosurgery	1
20969	Free osteocutaneous fla	14	Neurosurgery	1
20970	Free osteocutaneous fla	14	Neurosurgery	1
21026	Excision of bone (eg, for	14	Neurosurgery	1
21029	Removal by contouring e	14	Neurosurgery	1
21034	Excision of malignant tu	14	Neurosurgery	1
21049	Excision of benign tumo	14	Neurosurgery	1
21175	Reconstruction, bifronta	14	Neurosurgery	1
21256	Reconstruction of orbit v	14	Neurosurgery	1
21365	Open treatment of comp	14	Neurosurgery	1
21406	Open treatment of fractu	14	Neurosurgery	1
21408	Open treatment of fractu	14	Neurosurgery	1
21421	Closed treatment of pala	14	Neurosurgery	1
21423	Open treatment of palat	14	Neurosurgery	1
21462	Open treatment of mand	14	Neurosurgery	1
21627	Sternal debridement	14	Neurosurgery	1
21705	Division of scalenus anti	14	Neurosurgery	1
21720	Division of sternocleidor	14	Neurosurgery	1
23020	Capsular contracture rel	14	Neurosurgery	1
23140	Excision or curettage of	14	Neurosurgery	1
23430	Tenodesis of long tendo	14	Neurosurgery	1
23600	Closed treatment of pro	14	Neurosurgery	1
24400	Osteotomy, humerus, w	14	Neurosurgery	1
24435	Repair of nonunion or m	14	Neurosurgery	1

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24575	Open treatment of hume	14	Neurosurgery	1
25028	Incision and drainage, fo	14	Neurosurgery	1
25075	Excision, tumor, soft tiss	14	Neurosurgery	1
25100	Arthrotomy, wrist joint; w	14	Neurosurgery	1
25118	Synovectomy, extensor	14	Neurosurgery	1
25120	Excision or curettage of	14	Neurosurgery	1
25310	Tendon transplantation o	14	Neurosurgery	1
25449	Revision of arthroplasty,	14	Neurosurgery	1
25490	Prophylactic treatment (	14	Neurosurgery	1
25600	Closed treatment of dist	14	Neurosurgery	1
26100	Arthrotomy with biopsy;	14	Neurosurgery	1
26116	Excision, tumor or vascu	14	Neurosurgery	1
26418	Repair, extensor tendon	14	Neurosurgery	1
26554	Transfer, toe-to-hand wi	14	Neurosurgery	1
26820	Fusion in opposition, thu	14	Neurosurgery	1
26991	Incision and drainage, p	14	Neurosurgery	1
27030	Arthrotomy, hip, with dra	14	Neurosurgery	1
27036	Capsulectomy or capsul	14	Neurosurgery	1
27050	Arthrotomy, with biopsy;	14	Neurosurgery	1
27060	Excision; ischial bursa	14	Neurosurgery	1
27065	Excision of bone cyst or	14	Neurosurgery	1
27066	Excision of bone cyst or	14	Neurosurgery	1
27070	Partial excision (crateriz	14	Neurosurgery	1
27071	Partial excision (crateriz	14	Neurosurgery	1
27122	Acetabuloplasty; resecti	14	Neurosurgery	1
27132	Conversion of previous l	14	Neurosurgery	1
27138	Revision of total hip arth	14	Neurosurgery	1
27170	Bone graft, femoral head	14	Neurosurgery	1
27200	Closed treatment of coc	14	Neurosurgery	1
27226	Open treatment of poste	14	Neurosurgery	1
27235	Percutaneous skeletal fi	14	Neurosurgery	1
27360	Partial excision (crateriz	14	Neurosurgery	1
27372	Removal of foreign body	14	Neurosurgery	1
27442	Arthroplasty, femoral co	14	Neurosurgery	1
27513	Open treatment of femo	14	Neurosurgery	1
27530	Closed treatment of tibia	14	Neurosurgery	1
27535	Open treatment of tibial	14	Neurosurgery	1
27591	Amputation, thigh, throu	14	Neurosurgery	1
27594	Amputation, thigh, throu	14	Neurosurgery	1
27603	Incision and drainage, le	14	Neurosurgery	1
27612	Arthrotomy, posterior ca	14	Neurosurgery	1
27618	Excision, tumor, leg or a	14	Neurosurgery	1
27619	Excision, tumor, leg or a	14	Neurosurgery	1
27630	Excision of lesion of ten	14	Neurosurgery	1
27675	Repair, dislocating per	14	Neurosurgery	1
27720	Repair of nonunion or m	14	Neurosurgery	1
27814	Open treatment of bima	14	Neurosurgery	1
27870	Arthrodesis, ankle, oper	14	Neurosurgery	1
27881	Amputation, leg, through	14	Neurosurgery	1
28090	Excision of lesion, tend	14	Neurosurgery	1
29846	Arthroscopy, wrist, surg	14	Neurosurgery	1
29880	Arthroscopy, knee, surg	14	Neurosurgery	1

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29888	Arthroscopically aided a	14	Neurosurgery	1
30118	Excision or destruction (14	Neurosurgery	1
30915	Ligation arteries; ethmoi	14	Neurosurgery	1
31040	Pterygomaxillary fossa s	14	Neurosurgery	1
31084	Sinusotomy frontal; oblit	14	Neurosurgery	1
31090	Sinusotomy, unilateral, t	14	Neurosurgery	1
31610	Tracheostomy, fenestra	14	Neurosurgery	1
31830	Revision of tracheostom	14	Neurosurgery	1
32320	Decortication and pariet	14	Neurosurgery	1
32484	Removal of lung, other t	14	Neurosurgery	1
32500	Removal of lung, other t	14	Neurosurgery	1
32650	Thoracoscopy, surgical;	14	Neurosurgery	1
32656	Thoracoscopy, surgical;	14	Neurosurgery	1
32657	Thoracoscopy, surgical;	14	Neurosurgery	1
32905	Thoracoplasty, Schede f	14	Neurosurgery	1
33215	Repositioning of previou	14	Neurosurgery	1
33417	Aortoplasty (gusset) for	14	Neurosurgery	1
33425	Valvuloplasty, mitral valv	14	Neurosurgery	1
33510	Coronary artery bypass,	14	Neurosurgery	1
33512	Coronary artery bypass,	14	Neurosurgery	1
33514	Coronary artery bypass,	14	Neurosurgery	1
33820	Repair of patent ductus	14	Neurosurgery	1
33840	Excision of coarctation c	14	Neurosurgery	1
34201	Embolectomy or thromb	14	Neurosurgery	1
34502	Reconstruction of vena c	14	Neurosurgery	1
35005	Direct repair of aneurysr	14	Neurosurgery	1
35091	Direct repair of aneurysr	14	Neurosurgery	1
35311	Thromboendarterectomy	14	Neurosurgery	1
35361	Thromboendarterectomy	14	Neurosurgery	1
35509	Bypass graft, with vein; c	14	Neurosurgery	1
35558	Bypass graft, with vein; f	14	Neurosurgery	1
35566	Bypass graft, with vein; f	14	Neurosurgery	1
35601	Bypass graft, with other	14	Neurosurgery	1
35623	Bypass graft, with other	14	Neurosurgery	1
35651	Bypass graft, with other	14	Neurosurgery	1
35654	Bypass graft, with other	14	Neurosurgery	1
35666	Bypass graft, with other	14	Neurosurgery	1
35741	Exploration (not followe	14	Neurosurgery	1
35840	Exploration for postoper	14	Neurosurgery	1
35881	Revision, lower extremit	14	Neurosurgery	1
35903	Excision of infected graf	14	Neurosurgery	1
36818	Arteriovenous anastomc	14	Neurosurgery	1
36819	Arteriovenous anastomc	14	Neurosurgery	1
36832	Revision, open, arteriove	14	Neurosurgery	1
36833	Revision, open, arteriove	14	Neurosurgery	1
37617	Ligation, major artery (e	14	Neurosurgery	1
37790	Penile venous occlusive	14	Neurosurgery	1
38100	Splenectomy; total (sepa	14	Neurosurgery	1
38381	Suture and/or ligation of	14	Neurosurgery	1
38564	Limited lymphadenector	14	Neurosurgery	1
38724	Cervical lymphadenecto	14	Neurosurgery	1
38760	Inguinofemoral lymphad	14	Neurosurgery	1

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39220	Excision of mediastinal t	14	Neurosurgery	1
39501	Repair, laceration of dia	14	Neurosurgery	1
39502	Repair, paraesophageal	14	Neurosurgery	1
42420	Excision of parotid tumo	14	Neurosurgery	1
42972	Control of nasopharynge	14	Neurosurgery	1
43280	Laparoscopy, surgical, e	14	Neurosurgery	1
43632	Gastrectomy, partial, dis	14	Neurosurgery	1
43820	Gastrojejunostomy; with	14	Neurosurgery	1
43850	Revision of gastroduode	14	Neurosurgery	1
44020	Enterotomy, small intest	14	Neurosurgery	1
44025	Colotomy, for exploratio	14	Neurosurgery	1
44050	Reduction of volvulus, in	14	Neurosurgery	1
44125	Enterectomy, resection o	14	Neurosurgery	1
44144	Colectomy, partial; with	14	Neurosurgery	1
44300	Placement, enterostomy	14	Neurosurgery	1
44603	Suture of small intestine	14	Neurosurgery	1
44605	Suture of large intestine	14	Neurosurgery	1
44620	Closure of enterostomy,	14	Neurosurgery	1
44960	Appendectomy; for ruptu	14	Neurosurgery	1
47100	Biopsy of liver, wedge	14	Neurosurgery	1
47120	Hepatectomy, resection	14	Neurosurgery	1
47300	Marsupialization of cyst	14	Neurosurgery	1
47760	Anastomosis, of extrahe	14	Neurosurgery	1
49505	Repair initial inguinal he	14	Neurosurgery	1
49553	Repair initial femoral he	14	Neurosurgery	1
50065	Nephrolithotomy; secon	14	Neurosurgery	1
50135	Pyelotomy; complicated	14	Neurosurgery	1
50220	Nephrectomy, including	14	Neurosurgery	1
50230	Nephrectomy, including	14	Neurosurgery	1
50590	Lithotripsy, extracorpore	14	Neurosurgery	1
51800	Cystoplasty or cystouret	14	Neurosurgery	1
51840	Anterior vesicourethrope	14	Neurosurgery	1
53220	Excision or fulguration o	14	Neurosurgery	1
54670	Suture or repair of testic	14	Neurosurgery	1
56625	Vulvectomy simple; com	14	Neurosurgery	1
56631	Vulvectomy, radical, par	14	Neurosurgery	1
56634	Vulvectomy, radical, cor	14	Neurosurgery	1
57107	Vaginectomy, partial ren	14	Neurosurgery	1
57109	Vaginectomy, partial ren	14	Neurosurgery	1
57520	Conization of cervix, wit	14	Neurosurgery	1
58152	Total abdominal hystere	14	Neurosurgery	1
58660	Laparoscopy, surgical; v	14	Neurosurgery	1
58740	Lysis of adhesions (salp	14	Neurosurgery	1
58940	Oophorectomy, partial o	14	Neurosurgery	1
58954	Bilateral salpingo-oopho	14	Neurosurgery	1
58956	Bilateral salpingo-oopho	14	Neurosurgery	1
60200	Excision of cyst or aden	14	Neurosurgery	1
60210	Partial thyroid lobectomy	14	Neurosurgery	1
60225	Total thyroid lobectomy,	14	Neurosurgery	1
60240	Thyroidectomy, total or c	14	Neurosurgery	1
60521	Thymectomy, partial or t	14	Neurosurgery	1
60605	Excision of carotid body	14	Neurosurgery	1

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61552	Craniectomy for cranios	14	Neurosurgery	1
61558	Extensive craniectomy f	14	Neurosurgery	1
61559	Extensive craniectomy f	14	Neurosurgery	1
61576	Transoral approach to s	14	Neurosurgery	1
62115	Reduction of craniomeg	14	Neurosurgery	1
62117	Reduction of craniomeg	14	Neurosurgery	1
63191	Laminectomy with secti	14	Neurosurgery	1
63196	Laminectomy with cord	14	Neurosurgery	1
63307	Vertebral corpectomy (v	14	Neurosurgery	1
64580	Incision for implantation	14	Neurosurgery	1
64736	Transection or avulsion	14	Neurosurgery	1
64746	Transection or avulsion	14	Neurosurgery	1
64782	Excision of neuroma; ha	14	Neurosurgery	1
64835	Suture of one nerve; me	14	Neurosurgery	1
64862	Suture of; lumbar plexus	14	Neurosurgery	1
64865	Suture of facial nerve; in	14	Neurosurgery	1
64893	Nerve graft (includes ob	14	Neurosurgery	1
65110	Exenteration of orbit (do	14	Neurosurgery	1
65112	Exenteration of orbit (do	14	Neurosurgery	1
65114	Exenteration of orbit (do	14	Neurosurgery	1
66250	Revision or repair of ope	14	Neurosurgery	1
66984	Extracapsular cataract r	14	Neurosurgery	1
67311	Strabismus surgery, rec	14	Neurosurgery	1
67412	Orbitotomy without bone	14	Neurosurgery	1
67414	Orbitotomy without bone	14	Neurosurgery	1
69915	Vestibular nerve section	14	Neurosurgery	1
32480	Removal of lung, other t	14	Neurosurgery	1
58543	Laparoscopy, surgical, s	14	Neurosurgery	1
58957	Resection (tumor debulk	14	Neurosurgery	1
36870	Thrombectomy, percuta	14	Neurosurgery	1
45395	Laparoscopy, surgical; p	14	Neurosurgery	1
44130	Enteroenterostomy, ana	14	Neurosurgery	1
49255	Omentectomy, epiploec	14	Neurosurgery	1
15830	Excision, excessive skin	14	Neurosurgery	1
35302	Thromboendarterectomy	14	Neurosurgery	1
35303	Thromboendarterectomy	14	Neurosurgery	1
35304	Thromboendarterectomy	14	Neurosurgery	1
35305	Thromboendarterectomy	14	Neurosurgery	1
25609	Open treatment of distal	14	Neurosurgery	1
22857	Total disc arthroplasty (a	14	Neurosurgery	1
33255	Operative tissue ablatio	14	Neurosurgery	0
15115	Epidermal autograft, fac	14	Neurosurgery	0
58542	Laparoscopy, surgical, s	14	Neurosurgery	0
15400	Xenograft, skin (dermal)	14	Neurosurgery	0
58548	Laparoscopy, surgical, v	14	Neurosurgery	0
25608	Open treatment of distal	14	Neurosurgery	0
44187	Laparoscopy, surgical; il	14	Neurosurgery	0
58958	Resection (tumor debulk	14	Neurosurgery	0
25607	Open treatment of distal	14	Neurosurgery	0
33265	Endoscopy, surgical; op	14	Neurosurgery	0
33266	Endoscopy, surgical; op	14	Neurosurgery	0
25109	Excision of tendon, fore	14	Neurosurgery	0

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58553	Laparoscopy, surgical, v	14	Neurosurgery	0	
15420	Xenograft skin (dermal),	14	Neurosurgery	0	
15135	Dermal autograft, face, s	14	Neurosurgery	0	
15155	Tissue cultured epiderm	14	Neurosurgery	0	
32504	Resection of apical lung	14	Neurosurgery	0	303,795
57288	Sling operation for stres	16	Obstetrics Gynecology	23,966	
58150	Total abdominal hystere	16	Obstetrics Gynecology	22,338	
57260	Combined anteroposteri	16	Obstetrics Gynecology	18,441	
57240	Anterior colporrhaphy, re	16	Obstetrics Gynecology	12,743	
58260	Vaginal hysterectomy, fo	16	Obstetrics Gynecology	12,224	
57282	Colpopexy, vaginal; extr	16	Obstetrics Gynecology	11,077	
57250	Posterior colporrhaphy,	16	Obstetrics Gynecology	9,805	
57265	Combined anteroposteri	16	Obstetrics Gynecology	7,335	
58720	Salpingo-oophorectomy	16	Obstetrics Gynecology	5,167	
58262	Vaginal hysterectomy, fo	16	Obstetrics Gynecology	4,993	
58552	Laparoscopy, surgical, v	16	Obstetrics Gynecology	4,835	
57284	Paravaginal defect repa	16	Obstetrics Gynecology	3,678	
57280	Colpopexy, abdominal a	16	Obstetrics Gynecology	2,854	
57283	Colpopexy, vaginal; intra	16	Obstetrics Gynecology	2,850	
57120	Colpocleisis (Le Fort typ	16	Obstetrics Gynecology	2,557	
57522	Conization of cervix, with	16	Obstetrics Gynecology	2,501	
58210	Radical abdominal hyste	16	Obstetrics Gynecology	2,235	
57520	Conization of cervix, with	16	Obstetrics Gynecology	1,897	
45560	Repair of rectocele (sep	16	Obstetrics Gynecology	1,743	
57268	Repair of enterocele, va	16	Obstetrics Gynecology	1,682	
58200	Total abdominal hystere	16	Obstetrics Gynecology	1,566	
58662	Laparoscopy, surgical; v	16	Obstetrics Gynecology	1,557	
58660	Laparoscopy, surgical; v	16	Obstetrics Gynecology	1,529	
58270	Vaginal hysterectomy, fo	16	Obstetrics Gynecology	1,511	
58550	Laparoscopy, surgical, v	16	Obstetrics Gynecology	1,478	
56620	Vulvectomy simple; part	16	Obstetrics Gynecology	1,417	
58180	Supracervical abdomina	16	Obstetrics Gynecology	1,413	
58263	Vaginal hysterectomy, fo	16	Obstetrics Gynecology	1,390	
46934	Destruction of hemorrhho	16	Obstetrics Gynecology	1,255	
58940	Oophorectomy, partial o	16	Obstetrics Gynecology	1,124	
51840	Anterior vesicourethrope	16	Obstetrics Gynecology	969	
58152	Total abdominal hystere	16	Obstetrics Gynecology	805	
49000	Exploratory laparotomy,	16	Obstetrics Gynecology	766	
57425	Laparoscopy, surgical, c	16	Obstetrics Gynecology	751	
58953	Bilateral salpingo-oopho	16	Obstetrics Gynecology	715	
57287	Removal or revision of s	16	Obstetrics Gynecology	697	
66984	Extracapsular cataract r	16	Obstetrics Gynecology	692	
58954	Bilateral salpingo-oopho	16	Obstetrics Gynecology	681	
58952	Resection (initial) of ova	16	Obstetrics Gynecology	677	
57110	Vaginectomy, complete	16	Obstetrics Gynecology	658	
57106	Vaginectomy, partial ren	16	Obstetrics Gynecology	653	
59820	Treatment of missed ab	16	Obstetrics Gynecology	591	
58740	Lysis of adhesions (salp	16	Obstetrics Gynecology	567	
64581	Incision for implantation	16	Obstetrics Gynecology	551	
44120	Enterectomy, resection	16	Obstetrics Gynecology	534	
57295	Revision (including remo	16	Obstetrics Gynecology	526	
50715	Ureterolysis, with or with	16	Obstetrics Gynecology	503	

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58951	Resection (initial) of ova	16	Obstetrics Gynecology	502
44140	Colectomy, partial; with	16	Obstetrics Gynecology	446
58925	Ovarian cystectomy, uni	16	Obstetrics Gynecology	443
47562	Laparoscopy, surgical; c	16	Obstetrics Gynecology	442
58670	Laparoscopy, surgical; v	16	Obstetrics Gynecology	430
57210	Colpoperineorrhaphy, su	16	Obstetrics Gynecology	414
57270	Repair of enterocele, ab	16	Obstetrics Gynecology	398
59812	Treatment of incomplete	16	Obstetrics Gynecology	367
49560	Repair initial incisional o	16	Obstetrics Gynecology	362
44005	Enterolysis (freeing of in	16	Obstetrics Gynecology	361
58541	Laparoscopy, surgical, s	16	Obstetrics Gynecology	361
49585	Repair umbilical hernia,	16	Obstetrics Gynecology	351
66821	Discission of secondary	16	Obstetrics Gynecology	337
58950	Resection (initial) of ova	16	Obstetrics Gynecology	336
51992	Laparoscopy, surgical; s	16	Obstetrics Gynecology	335
58671	Laparoscopy, surgical; v	16	Obstetrics Gynecology	319
58956	Bilateral salpingo-oopho	16	Obstetrics Gynecology	316
56630	Vulvectomy, radical, par	16	Obstetrics Gynecology	310
58960	Laparotomy, for staging	16	Obstetrics Gynecology	294
38562	Limited lymphadenector	16	Obstetrics Gynecology	293
44180	Laparoscopy, surgical, e	16	Obstetrics Gynecology	291
58542	Laparoscopy, surgical, s	16	Obstetrics Gynecology	287
44145	Colectomy, partial; with	16	Obstetrics Gynecology	281
27447	Arthroplasty, knee, cond	16	Obstetrics Gynecology	278
38770	Pelvic lymphadenectom	16	Obstetrics Gynecology	277
58267	Vaginal hysterectomy, fo	16	Obstetrics Gynecology	271
58140	Myomectomy, excision o	16	Obstetrics Gynecology	263
57200	Colporrhaphy, suture of	16	Obstetrics Gynecology	252
58548	Laparoscopy, surgical, v	16	Obstetrics Gynecology	245
46750	Sphincteroplasty, anal, f	16	Obstetrics Gynecology	240
57155	Insertion of uterine tand	16	Obstetrics Gynecology	238
44160	Colectomy, partial, with	16	Obstetrics Gynecology	213
58700	Salpingectomy, complet	16	Obstetrics Gynecology	211
58554	Laparoscopy, surgical, v	16	Obstetrics Gynecology	210
58943	Oophorectomy, partial o	16	Obstetrics Gynecology	201
44143	Colectomy, partial; with	16	Obstetrics Gynecology	198
57220	Plastic operation on uret	16	Obstetrics Gynecology	196
58290	Vaginal hysterectomy, fo	16	Obstetrics Gynecology	195
47563	Laparoscopy, surgical; c	16	Obstetrics Gynecology	190
58400	Uterine suspension, with	16	Obstetrics Gynecology	189
58280	Vaginal hysterectomy, w	16	Obstetrics Gynecology	178
49419	Insertion of intraperitone	16	Obstetrics Gynecology	161
57530	Trachelectomy (cerviced	16	Obstetrics Gynecology	156
51990	Laparoscopy, surgical; u	16	Obstetrics Gynecology	156
51860	Cystorrhaphy, suture of	16	Obstetrics Gynecology	150
35301	Thromboendarterectomy	16	Obstetrics Gynecology	144
56631	Vulvectomy, radical, par	16	Obstetrics Gynecology	144
51841	Anterior vesicourethrope	16	Obstetrics Gynecology	142
19120	Excision of cyst, fibroad	16	Obstetrics Gynecology	140
53500	Urethrolisis, transvagina	16	Obstetrics Gynecology	140
58145	Myomectomy, excision o	16	Obstetrics Gynecology	136
51040	Cystostomy, cystotomy	16	Obstetrics Gynecology	134

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57556	Excision of cervical stump	16	Obstetrics Gynecology	132
58565	Hysteroscopy, surgical; with	16	Obstetrics Gynecology	132
44604	Suture of large intestine	16	Obstetrics Gynecology	128
58545	Laparoscopy, surgical, non	16	Obstetrics Gynecology	123
56632	Vulvectomy, radical, partial	16	Obstetrics Gynecology	121
58275	Vaginal hysterectomy, with	16	Obstetrics Gynecology	120
47600	Cholecystectomy; with	16	Obstetrics Gynecology	117
56625	Vulvectomy simple; complete	16	Obstetrics Gynecology	117
15430	Acellular xenograft implant	16	Obstetrics Gynecology	115
44320	Colostomy or skin level	16	Obstetrics Gynecology	111
58291	Vaginal hysterectomy, for	16	Obstetrics Gynecology	110
27130	Arthroplasty, acetabular	16	Obstetrics Gynecology	109
38760	Inguinofemoral lymphaden	16	Obstetrics Gynecology	106
44602	Suture of small intestine	16	Obstetrics Gynecology	106
59151	Laparoscopic treatment	16	Obstetrics Gynecology	105
49002	Reopening of recent lap	16	Obstetrics Gynecology	104
13160	Secondary closure of su	16	Obstetrics Gynecology	102
56637	Vulvectomy, radical, cor	16	Obstetrics Gynecology	101
58957	Resection (tumor debulk	16	Obstetrics Gynecology	100
58240	Pelvic exenteration for g	16	Obstetrics Gynecology	100
57107	Vaginectomy, partial ren	16	Obstetrics Gynecology	97
49505	Repair initial inguinal he	16	Obstetrics Gynecology	96
58543	Laparoscopy, surgical, s	16	Obstetrics Gynecology	95
51845	Abdomino-vaginal vesic	16	Obstetrics Gynecology	92
19125	Excision of breast lesior	16	Obstetrics Gynecology	91
27236	Open treatment of femo	16	Obstetrics Gynecology	88
44970	Laparoscopy, surgical, a	16	Obstetrics Gynecology	88
19301	Mastectomy, partial (eg,	16	Obstetrics Gynecology	85
19307	Mastectomy, modified ra	16	Obstetrics Gynecology	85
51800	Cystoplasty or cystouret	16	Obstetrics Gynecology	85
58544	Laparoscopy, surgical, s	16	Obstetrics Gynecology	84
56633	Vulvectomy, radical, cor	16	Obstetrics Gynecology	78
19302	Mastectomy, partial (eg,	16	Obstetrics Gynecology	75
66761	Iridotomy/iridectomy by	16	Obstetrics Gynecology	75
37617	Ligation, major artery (e	16	Obstetrics Gynecology	70
59120	Surgical treatment of ec	16	Obstetrics Gynecology	70
49255	Omentectomy, epiploect	16	Obstetrics Gynecology	70
19303	Mastectomy, simple, cor	16	Obstetrics Gynecology	69
44141	Colectomy, partial; with	16	Obstetrics Gynecology	67
58146	Myomectomy, excision of	16	Obstetrics Gynecology	66
43830	Gastrostomy, open; with	16	Obstetrics Gynecology	65
49215	Excision of presacral or	16	Obstetrics Gynecology	65
49561	Repair initial incisional o	16	Obstetrics Gynecology	64
17107	Destruction of cutaneous	16	Obstetrics Gynecology	61
17106	Destruction of cutaneous	16	Obstetrics Gynecology	59
49587	Repair umbilical hernia,	16	Obstetrics Gynecology	59
44110	Excision of one or more	16	Obstetrics Gynecology	58
57300	Closure of rectovaginal f	16	Obstetrics Gynecology	56
58294	Vaginal hysterectomy, fo	16	Obstetrics Gynecology	56
58605	Ligation or transection o	16	Obstetrics Gynecology	56
22612	Arthrodesis, posterior or	16	Obstetrics Gynecology	55
37765	Stab phlebectomy of var	16	Obstetrics Gynecology	54

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44310	Ileostomy or jejunostom	16	Obstetrics Gynecology	53
38564	Limited lymphadenector	16	Obstetrics Gynecology	51
51045	Cystotomy, with insertio	16	Obstetrics Gynecology	51
58292	Vaginal hysterectomy, fo	16	Obstetrics Gynecology	51
58805	Drainage of ovarian cyst	16	Obstetrics Gynecology	51
45400	Laparoscopy, surgical; p	16	Obstetrics Gynecology	50
58800	Drainage of ovarian cyst	16	Obstetrics Gynecology	50
22900	Excision, abdominal wall	16	Obstetrics Gynecology	49
49010	Exploration, retroperiton	16	Obstetrics Gynecology	48
49900	Suture, secondary, of ab	16	Obstetrics Gynecology	48
38308	Lymphangiomyotomy or othe	16	Obstetrics Gynecology	47
46761	Sphincteroplasty, anal, f	16	Obstetrics Gynecology	47
49020	Drainage of peritoneal a	16	Obstetrics Gynecology	47
27244	Treatment of intertrocha	16	Obstetrics Gynecology	45
47100	Biopsy of liver, wedge	16	Obstetrics Gynecology	45
19020	Mastotomy with explorat	16	Obstetrics Gynecology	43
38100	Splenectomy; total (sepa	16	Obstetrics Gynecology	43
51865	Cystorrhaphy, suture of	16	Obstetrics Gynecology	43
57010	Colpotomy; with drainag	16	Obstetrics Gynecology	43
27125	Hemiarthroplasty, hip, p	16	Obstetrics Gynecology	41
63030	Laminotomy (hemilamin	16	Obstetrics Gynecology	41
14040	Adjacent tissue transfer	16	Obstetrics Gynecology	40
27245	Treatment of intertrocha	16	Obstetrics Gynecology	40
44603	Suture of small intestine	16	Obstetrics Gynecology	39
44700	Exclusion of small intest	16	Obstetrics Gynecology	39
47605	Cholecystectomy; with c	16	Obstetrics Gynecology	39
49421	Insertion of intraperitone	16	Obstetrics Gynecology	39
49565	Repair recurrent incision	16	Obstetrics Gynecology	39
50722	Ureterolysis for ovarian	16	Obstetrics Gynecology	39
22630	Arthrodesis, posterior in	16	Obstetrics Gynecology	38
57320	Closure of vesicovagina	16	Obstetrics Gynecology	38
44620	Closure of enterostomy,	16	Obstetrics Gynecology	37
17108	Destruction of cutaneous	16	Obstetrics Gynecology	35
20926	Tissue grafts, other (eg,	16	Obstetrics Gynecology	35
57289	Pereyra procedure, inclu	16	Obstetrics Gynecology	35
39560	Resection, diaphragm; v	16	Obstetrics Gynecology	34
59150	Laparoscopic treatment	16	Obstetrics Gynecology	34
15335	Acellular dermal allograf	16	Obstetrics Gynecology	33
15823	Blepharoplasty, upper e	16	Obstetrics Gynecology	33
57550	Excision of cervical stum	16	Obstetrics Gynecology	33
57720	Trachelorrhaphy, plastic	16	Obstetrics Gynecology	33
77761	Intracavitary radiation sc	16	Obstetrics Gynecology	33
37766	Stab phlebectomy of var	16	Obstetrics Gynecology	32
45541	Proctopexy (eg, for prol	16	Obstetrics Gynecology	31
58600	Ligation or transection o	16	Obstetrics Gynecology	31
58673	Laparoscopy, surgical; v	16	Obstetrics Gynecology	31
58900	Biopsy of ovary, unilater	16	Obstetrics Gynecology	31
59821	Treatment of missed ab	16	Obstetrics Gynecology	31
23420	Reconstruction of comp	16	Obstetrics Gynecology	30
37700	Ligation and division of l	16	Obstetrics Gynecology	30
44144	Colectomy, partial; with	16	Obstetrics Gynecology	30
44146	Colectomy, partial; with	16	Obstetrics Gynecology	30

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44800	Excision of Meckel's diverticulum	16	Obstetrics Gynecology	30
51880	Closure of cystostomy (stoma)	16	Obstetrics Gynecology	30
56634	Vulvectomy, radical, complete	16	Obstetrics Gynecology	30
57308	Closure of rectovaginal fistula	16	Obstetrics Gynecology	29
67917	Repair of ectropion; external	16	Obstetrics Gynecology	29
15830	Excision, excessive skin	16	Obstetrics Gynecology	29
44204	Laparoscopy, surgical; diagnostic	16	Obstetrics Gynecology	28
44950	Appendectomy; laparoscopic	16	Obstetrics Gynecology	28
51550	Cystectomy, partial; simple	16	Obstetrics Gynecology	28
57305	Closure of rectovaginal fistula	16	Obstetrics Gynecology	28
63047	Laminectomy, facetectomy	16	Obstetrics Gynecology	27
38525	Biopsy or excision of lymph node	16	Obstetrics Gynecology	26
62223	Creation of shunt; ventriculoperitoneal	16	Obstetrics Gynecology	26
35656	Bypass graft, with other procedure	16	Obstetrics Gynecology	25
37760	Ligation of perforator vessels	16	Obstetrics Gynecology	25
57230	Plastic repair of urethral stricture	16	Obstetrics Gynecology	25
35840	Exploration for postoperative hernia	16	Obstetrics Gynecology	24
57111	Vaginectomy, complete	16	Obstetrics Gynecology	24
57296	Revision (including removal)	16	Obstetrics Gynecology	24
57292	Construction of artificial vagina	16	Obstetrics Gynecology	23
32480	Removal of lung, other than	16	Obstetrics Gynecology	23
44626	Closure of enterostomy, abdominal	16	Obstetrics Gynecology	22
49402	Removal of peritoneal folds	16	Obstetrics Gynecology	22
57555	Excision of cervical stump	16	Obstetrics Gynecology	22
44130	Enteroenterostomy, anastomosis	16	Obstetrics Gynecology	22
44050	Reduction of volvulus, intestinal	16	Obstetrics Gynecology	21
49566	Repair recurrent incision	16	Obstetrics Gynecology	21
50780	Ureteroneocystostomy; ureterostomy	16	Obstetrics Gynecology	21
51535	Cystotomy for excision, simple	16	Obstetrics Gynecology	21
55845	Prostatectomy, retropubic	16	Obstetrics Gynecology	21
60500	Parathyroidectomy or excision	16	Obstetrics Gynecology	21
58958	Resection (tumor debulking)	16	Obstetrics Gynecology	20
11470	Excision of skin and subcutaneous tissue	16	Obstetrics Gynecology	20
35221	Repair blood vessel, direct	16	Obstetrics Gynecology	20
44020	Enterotomy, small intestine	16	Obstetrics Gynecology	20
44147	Colectomy, partial; abdominal	16	Obstetrics Gynecology	19
53430	Urethroplasty, reconstruction	16	Obstetrics Gynecology	19
44188	Laparoscopy, surgical; diagnostic	16	Obstetrics Gynecology	19
29826	Arthroscopy, shoulder, surgical	16	Obstetrics Gynecology	18
44615	Intestinal stricturoplasty	16	Obstetrics Gynecology	18
49507	Repair initial inguinal hernia	16	Obstetrics Gynecology	18
77778	Interstitial radiation source	16	Obstetrics Gynecology	18
44625	Closure of enterostomy, abdominal	16	Obstetrics Gynecology	18
23600	Closed treatment of prostatic	16	Obstetrics Gynecology	17
25600	Closed treatment of distal	16	Obstetrics Gynecology	17
43280	Laparoscopy, surgical, exploratory	16	Obstetrics Gynecology	17
45100	Biopsy of anorectal wall	16	Obstetrics Gynecology	17
55866	Laparoscopy, surgical; partial	16	Obstetrics Gynecology	17
58770	Salpingostomy (salpingectomy)	16	Obstetrics Gynecology	17
58920	Wedge resection or biopsy	16	Obstetrics Gynecology	17
44227	Laparoscopy, surgical; diagnostic	16	Obstetrics Gynecology	16
14041	Adjacent tissue transfer	16	Obstetrics Gynecology	16

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23470	Arthroplasty, glenohume	16	Obstetrics Gynecology	16
46250	Hemorrhoidectomy, exte	16	Obstetrics Gynecology	16
47120	Hepatectomy, resection	16	Obstetrics Gynecology	16
66982	Extracapsular cataract r	16	Obstetrics Gynecology	16
67210	Destruction of localized	16	Obstetrics Gynecology	16
38780	Retroperitoneal transab	16	Obstetrics Gynecology	16
23472	Arthroplasty, glenohume	16	Obstetrics Gynecology	15
26990	Incision and drainage, p	16	Obstetrics Gynecology	15
44150	Colectomy, total, abdom	16	Obstetrics Gynecology	15
44205	Laparoscopy, surgical; c	16	Obstetrics Gynecology	15
44960	Appendectomy; for ruptu	16	Obstetrics Gynecology	15
45123	Proctectomy, partial, wit	16	Obstetrics Gynecology	15
53230	Excision of urethral dive	16	Obstetrics Gynecology	15
57109	Vaginectomy, partial ren	16	Obstetrics Gynecology	15
57540	Excision of cervical stum	16	Obstetrics Gynecology	15
77762	Intracavitary radiation sc	16	Obstetrics Gynecology	15
15320	Allograft skin for tempor	16	Obstetrics Gynecology	14
15839	Excision, excessive skin	16	Obstetrics Gynecology	14
19316	Mastopexy	16	Obstetrics Gynecology	14
35583	In-situ vein bypass; fem	16	Obstetrics Gynecology	14
44111	Excision of one or more	16	Obstetrics Gynecology	14
49250	Umbilectomy, omphalec	16	Obstetrics Gynecology	14
49520	Repair recurrent inguina	16	Obstetrics Gynecology	14
50605	Ureterotomy for insertio	16	Obstetrics Gynecology	14
50760	Ureteroureterostomy	16	Obstetrics Gynecology	14
51900	Closure of vesicovagina	16	Obstetrics Gynecology	14
15420	Xenograft skin (dermal),	16	Obstetrics Gynecology	13
58553	Laparoscopy, surgical, v	16	Obstetrics Gynecology	13
50250	Ablation, open, one or m	16	Obstetrics Gynecology	13
20922	Fascia lata graft; by incis	16	Obstetrics Gynecology	13
29824	Arthroscopy, shoulder, s	16	Obstetrics Gynecology	13
38765	Inguinofemoral lymphad	16	Obstetrics Gynecology	13
44202	Laparoscopy, surgical; e	16	Obstetrics Gynecology	13
44820	Excision of lesion of me	16	Obstetrics Gynecology	13
46936	Destruction of hemorrho	16	Obstetrics Gynecology	13
49650	Laparoscopy, surgical; r	16	Obstetrics Gynecology	13
58293	Vaginal hysterectomy, fo	16	Obstetrics Gynecology	13
67904	Repair of blepharoptosis	16	Obstetrics Gynecology	13
15400	Xenograft, skin (dermal)	16	Obstetrics Gynecology	13
21800	Closed treatment of rib f	16	Obstetrics Gynecology	12
35372	Thromboendarterectomy	16	Obstetrics Gynecology	12
38745	Axillary lymphadenector	16	Obstetrics Gynecology	12
43840	Gastrorrhaphy, suture o	16	Obstetrics Gynecology	12
46040	Incision and drainage of	16	Obstetrics Gynecology	12
48140	Pancreatectomy, distal s	16	Obstetrics Gynecology	12
57531	Radical trachelectomy, v	16	Obstetrics Gynecology	12
45110	Proctectomy; complete,	16	Obstetrics Gynecology	12
44187	Laparoscopy, surgical; il	16	Obstetrics Gynecology	11
25605	Closed treatment of dist	16	Obstetrics Gynecology	11
32500	Removal of lung, other t	16	Obstetrics Gynecology	11
35081	Direct repair of aneurysr	16	Obstetrics Gynecology	11
35371	Thromboendarterectomy	16	Obstetrics Gynecology	11

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57700	Cerclage of uterine cerv	16	Obstetrics Gynecology	11
59100	Hysterotomy, abdomina	16	Obstetrics Gynecology	11
60220	Total thyroid lobectomy,	16	Obstetrics Gynecology	11
22554	Arthrodesis, anterior inte	16	Obstetrics Gynecology	10
23120	Claviclectomy; partial	16	Obstetrics Gynecology	10
23412	Repair of ruptured musc	16	Obstetrics Gynecology	10
27193	Closed treatment of pelv	16	Obstetrics Gynecology	10
27486	Revision of total knee ar	16	Obstetrics Gynecology	10
27786	Closed treatment of dist	16	Obstetrics Gynecology	10
44125	Enterectomy, resection o	16	Obstetrics Gynecology	10
44207	Laparoscopy, surgical; c	16	Obstetrics Gynecology	10
44345	Revision of colostomy; c	16	Obstetrics Gynecology	10
44346	Revision of colostomy; v	16	Obstetrics Gynecology	10
45562	Exploration, repair, and	16	Obstetrics Gynecology	10
49525	Repair inguinal hernia, s	16	Obstetrics Gynecology	10
49550	Repair initial femoral he	16	Obstetrics Gynecology	10
49590	Repair spigelian hernia	16	Obstetrics Gynecology	10
67924	Repair of entropion; exte	16	Obstetrics Gynecology	10
15740	Flap; island pedicle	16	Obstetrics Gynecology	9
19110	Nipple exploration, with	16	Obstetrics Gynecology	9
27507	Open treatment of femo	16	Obstetrics Gynecology	9
28470	Closed treatment of met	16	Obstetrics Gynecology	9
44025	Colotomy, for exploratio	16	Obstetrics Gynecology	9
51020	Cystotomy or cystostom	16	Obstetrics Gynecology	9
57112	Vaginectomy, complete	16	Obstetrics Gynecology	9
58410	Uterine suspension, with	16	Obstetrics Gynecology	9
58825	Transposition, ovary(s)	16	Obstetrics Gynecology	9
65730	Keratoplasty (corneal tra	16	Obstetrics Gynecology	9
67914	Repair of ectropion; sutu	16	Obstetrics Gynecology	9
29823	Arthroscopy, shoulder, s	16	Obstetrics Gynecology	8
29827	Arthroscopy, shoulder, s	16	Obstetrics Gynecology	8
35761	Exploration (not followe	16	Obstetrics Gynecology	8
43324	Esophagogastric fundop	16	Obstetrics Gynecology	8
49323	Laparoscopy, surgical; v	16	Obstetrics Gynecology	8
50230	Nephrectomy, including	16	Obstetrics Gynecology	8
50600	Ureterotomy with explor	16	Obstetrics Gynecology	8
51555	Cystectomy, partial; com	16	Obstetrics Gynecology	8
53220	Excision or fulguration o	16	Obstetrics Gynecology	8
54405	Insertion of multi-compo	16	Obstetrics Gynecology	8
56640	Vulvectomy, radical, cor	16	Obstetrics Gynecology	8
59121	Surgical treatment of ec	16	Obstetrics Gynecology	8
63075	Discectomy, anterior, wi	16	Obstetrics Gynecology	8
45395	Laparoscopy, surgical; p	16	Obstetrics Gynecology	7
15734	Muscle, myocutaneous,	16	Obstetrics Gynecology	7
20680	Removal of implant; dee	16	Obstetrics Gynecology	7
23615	Open treatment of proxi	16	Obstetrics Gynecology	7
27327	Excision, tumor, thigh or	16	Obstetrics Gynecology	7
36830	Creation of arteriovenou	16	Obstetrics Gynecology	7
39561	Resection, diaphragm; v	16	Obstetrics Gynecology	7
43611	Excision, local; maligna	16	Obstetrics Gynecology	7
45020	Incision and drainage of	16	Obstetrics Gynecology	7
45126	Pelvic exenteration for c	16	Obstetrics Gynecology	7

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45130	Excision of rectal proci	16	Obstetrics Gynecology	7
46255	Hemorrhoidectomy, inte	16	Obstetrics Gynecology	7
47610	Cholecystectomy with ex	16	Obstetrics Gynecology	7
50240	Nephrectomy, partial	16	Obstetrics Gynecology	7
50820	Ureteroileal conduit (ilea	16	Obstetrics Gynecology	7
52400	Cystourethroscopy with	16	Obstetrics Gynecology	7
53445	Insertion of inflatable ure	16	Obstetrics Gynecology	7
57335	Vaginoplasty for intersex	16	Obstetrics Gynecology	7
58760	Fimbrioplasty	16	Obstetrics Gynecology	7
61793	Stereotactic radiosurger	16	Obstetrics Gynecology	7
63042	Laminotomy (hemilamin	16	Obstetrics Gynecology	7
15120	Split-thickness autograft	16	Obstetrics Gynecology	7
11462	Excision of skin and sub	16	Obstetrics Gynecology	6
14300	Adjacent tissue transfer	16	Obstetrics Gynecology	6
15574	Formation of direct or tu	16	Obstetrics Gynecology	6
23650	Closed treatment of sho	16	Obstetrics Gynecology	6
26600	Closed treatment of met	16	Obstetrics Gynecology	6
27041	Biopsy, soft tissue of pe	16	Obstetrics Gynecology	6
27049	Radical resection of tum	16	Obstetrics Gynecology	6
27301	Incision and drainage, d	16	Obstetrics Gynecology	6
27487	Revision of total knee ar	16	Obstetrics Gynecology	6
27506	Open treatment of femo	16	Obstetrics Gynecology	6
27880	Amputation, leg, through	16	Obstetrics Gynecology	6
39502	Repair, paraesophageal	16	Obstetrics Gynecology	6
43610	Excision, local; ulcer or l	16	Obstetrics Gynecology	6
43632	Gastrectomy, partial, dis	16	Obstetrics Gynecology	6
44206	Laparoscopy, surgical; c	16	Obstetrics Gynecology	6
44340	Revision of colostomy; s	16	Obstetrics Gynecology	6
45505	Proctoplasty; for prolaps	16	Obstetrics Gynecology	6
49060	Drainage of retroperiton	16	Obstetrics Gynecology	6
49600	Repair of small omphalc	16	Obstetrics Gynecology	6
50220	Nephrectomy, including	16	Obstetrics Gynecology	6
50700	Ureteroplasty, plastic op	16	Obstetrics Gynecology	6
53010	Urethrotomy or urethros	16	Obstetrics Gynecology	6
53040	Drainage of deep periur	16	Obstetrics Gynecology	6
53400	Urethroplasty; first stage	16	Obstetrics Gynecology	6
57330	Closure of vesicovagina	16	Obstetrics Gynecology	6
58672	Laparoscopy, surgical; v	16	Obstetrics Gynecology	6
58820	Drainage of ovarian abs	16	Obstetrics Gynecology	6
58822	Drainage of ovarian abs	16	Obstetrics Gynecology	6
59856	Induced abortion, by one	16	Obstetrics Gynecology	6
60240	Thyroidectomy, total or c	16	Obstetrics Gynecology	6
67005	Removal of vitreous, an	16	Obstetrics Gynecology	6
67228	Treatment of extensive c	16	Obstetrics Gynecology	6
67921	Repair of entropion; sutu	16	Obstetrics Gynecology	6
77776	Interstitial radiation sour	16	Obstetrics Gynecology	6
14000	Adjacent tissue transfer	16	Obstetrics Gynecology	5
15738	Muscle, myocutaneous,	16	Obstetrics Gynecology	5
15780	Dermabrasion; total face	16	Obstetrics Gynecology	5
20920	Fascia lata graft; by strip	16	Obstetrics Gynecology	5
24516	Treatment of humeral sh	16	Obstetrics Gynecology	5
27048	Excision, tumor, pelvis a	16	Obstetrics Gynecology	5

Attachment J_CPT codes for Surgical CAHPS 90 day globals_Updated_11-4-2011

27134	Revision of total hip arth	16	Obstetrics Gynecology	5
27446	Arthroplasty, knee, conc	16	Obstetrics Gynecology	5
27590	Amputation, thigh, throu	16	Obstetrics Gynecology	5
32220	Decortication, pulmonar	16	Obstetrics Gynecology	5
35102	Direct repair of aneurysr	16	Obstetrics Gynecology	5
35556	Bypass graft, with vein; t	16	Obstetrics Gynecology	5
38542	Dissection, deep jugular	16	Obstetrics Gynecology	5
38740	Axillary lymphadenectom	16	Obstetrics Gynecology	5
43501	Gastrotomy; with suture	16	Obstetrics Gynecology	5
44300	Placement, enterostomy	16	Obstetrics Gynecology	5
44605	Suture of large intestine	16	Obstetrics Gynecology	5
45111	Proctectomy; partial res	16	Obstetrics Gynecology	5
45170	Excision of rectal tumor,	16	Obstetrics Gynecology	5
45800	Closure of rectovesical f	16	Obstetrics Gynecology	5
49553	Repair initial femoral he	16	Obstetrics Gynecology	5
50100	Transection or repositio	16	Obstetrics Gynecology	5
50785	Ureteroneocystostomy; v	16	Obstetrics Gynecology	5
51530	Cystotomy; for excision	16	Obstetrics Gynecology	5
53502	Urethrorrhaphy, suture c	16	Obstetrics Gynecology	5
55821	Prostatectomy (including	16	Obstetrics Gynecology	5
57291	Construction of artificial	16	Obstetrics Gynecology	5
57310	Closure of urethrovagina	16	Obstetrics Gynecology	5
58546	Laparoscopy, surgical, n	16	Obstetrics Gynecology	5
58750	Tubotubal anastomosis	16	Obstetrics Gynecology	5
59870	Uterine evacuation and c	16	Obstetrics Gynecology	5
61510	Craniectomy, trephinatic	16	Obstetrics Gynecology	5
64708	Neuroplasty, major perip	16	Obstetrics Gynecology	5
67966	Excision and repair of ey	16	Obstetrics Gynecology	5
45550	Proctopexy (eg, for prol	16	Obstetrics Gynecology	5
14001	Adjacent tissue transfer	16	Obstetrics Gynecology	4
15260	Full thickness graft, free	16	Obstetrics Gynecology	4
19260	Excision of chest wall tu	16	Obstetrics Gynecology	4
19318	Reduction mammoplast	16	Obstetrics Gynecology	4
19366	Breast reconstruction wi	16	Obstetrics Gynecology	4
21280	Medial canthopexy (sep	16	Obstetrics Gynecology	4
21555	Excision tumor, soft tiss	16	Obstetrics Gynecology	4
21556	Excision tumor, soft tiss	16	Obstetrics Gynecology	4
21557	Radical resection of tum	16	Obstetrics Gynecology	4
24515	Open treatment of hume	16	Obstetrics Gynecology	4
26750	Closed treatment of dist	16	Obstetrics Gynecology	4
27047	Excision, tumor, pelvis a	16	Obstetrics Gynecology	4
27780	Closed treatment of pro	16	Obstetrics Gynecology	4
27788	Closed treatment of dist	16	Obstetrics Gynecology	4
35141	Direct repair of aneurysr	16	Obstetrics Gynecology	4
35571	Bypass graft, with vein; t	16	Obstetrics Gynecology	4
35661	Bypass graft, with other	16	Obstetrics Gynecology	4
35665	Bypass graft, with other	16	Obstetrics Gynecology	4
37660	Ligation of common iliac	16	Obstetrics Gynecology	4
37735	Ligation and division and	16	Obstetrics Gynecology	4
38120	Laparoscopy, surgical, s	16	Obstetrics Gynecology	4
43631	Gastrectomy, partial, dis	16	Obstetrics Gynecology	4
43820	Gastrojejunostomy; with	16	Obstetrics Gynecology	4

Attachment J_CPT codes for Surgical CAHPS 90 day globals_Updated_11-4-2011

44021	Enterotomy, small intestine	16	Obstetrics Gynecology	4
44312	Revision of ileostomy; sigmoid	16	Obstetrics Gynecology	4
44640	Closure of intestinal cuta	16	Obstetrics Gynecology	4
45190	Destruction of rectal tumor	16	Obstetrics Gynecology	4
45500	Proctoplasty; for stenosis	16	Obstetrics Gynecology	4
47564	Laparoscopy, surgical; complete	16	Obstetrics Gynecology	4
48100	Biopsy of pancreas, open	16	Obstetrics Gynecology	4
49040	Drainage of subdiaphrag	16	Obstetrics Gynecology	4
49062	Drainage of extraperiton	16	Obstetrics Gynecology	4
50725	Ureterolysis for retrocav	16	Obstetrics Gynecology	4
50900	Ureterorrhaphy, suture c	16	Obstetrics Gynecology	4
50940	Deligation of ureter	16	Obstetrics Gynecology	4
51525	Cystotomy; for excision	16	Obstetrics Gynecology	4
51590	Cystectomy, complete, v	16	Obstetrics Gynecology	4
51595	Cystectomy, complete, v	16	Obstetrics Gynecology	4
55812	Prostatectomy, perineal	16	Obstetrics Gynecology	4
58285	Vaginal hysterectomy, ra	16	Obstetrics Gynecology	4
58520	Hysterorrhaphy, repair o	16	Obstetrics Gynecology	4
58540	Hysteroplasty, repair of	16	Obstetrics Gynecology	4
60210	Partial thyroid lobectomy	16	Obstetrics Gynecology	4
60225	Total thyroid lobectomy,	16	Obstetrics Gynecology	4
65420	Excision or transposition	16	Obstetrics Gynecology	4
65426	Excision or transposition	16	Obstetrics Gynecology	4
65755	Keratoplasty (corneal tra	16	Obstetrics Gynecology	4
68720	Dacryocystorhinostomy	16	Obstetrics Gynecology	4
25609	Open treatment of distal	16	Obstetrics Gynecology	3
45402	Laparoscopy, surgical; p	16	Obstetrics Gynecology	3
11463	Excision of skin and sub	16	Obstetrics Gynecology	3
11471	Excision of skin and sub	16	Obstetrics Gynecology	3
14021	Adjacent tissue transfer	16	Obstetrics Gynecology	3
21235	Graft; ear cartilage, aut	16	Obstetrics Gynecology	3
22852	Removal of posterior se	16	Obstetrics Gynecology	3
23616	Open treatment of proxi	16	Obstetrics Gynecology	3
26720	Closed treatment of pha	16	Obstetrics Gynecology	3
27132	Conversion of previous l	16	Obstetrics Gynecology	3
27250	Closed treatment of hip	16	Obstetrics Gynecology	3
27266	Closed treatment of pos	16	Obstetrics Gynecology	3
27328	Excision, tumor, thigh or	16	Obstetrics Gynecology	3
27511	Open treatment of femo	16	Obstetrics Gynecology	3
27513	Open treatment of femo	16	Obstetrics Gynecology	3
27822	Open treatment of trima	16	Obstetrics Gynecology	3
28490	Closed treatment of frac	16	Obstetrics Gynecology	3
35082	Direct repair of aneurysm	16	Obstetrics Gynecology	3
35351	Thromboendarterectomy	16	Obstetrics Gynecology	3
35566	Bypass graft, with vein; f	16	Obstetrics Gynecology	3
35585	In-situ vein bypass; fem	16	Obstetrics Gynecology	3
37780	Ligation and division of s	16	Obstetrics Gynecology	3
38115	Repair of ruptured splee	16	Obstetrics Gynecology	3
38700	Suprahyoid lymphadene	16	Obstetrics Gynecology	3
40819	Excision of frenum, labia	16	Obstetrics Gynecology	3
42415	Excision of parotid tumor	16	Obstetrics Gynecology	3
43640	Vagotomy including pylor	16	Obstetrics Gynecology	3

Attachment J_CPT codes for Surgical CAHPS 90 day globals_Updated_11-4-2011

43832	Gastrostomy, open; with	16	Obstetrics Gynecology	3
44055	Correction of malrotation	16	Obstetrics Gynecology	3
44155	Colectomy, total, abdom	16	Obstetrics Gynecology	3
44208	Laparoscopy, surgical; c	16	Obstetrics Gynecology	3
44314	Revision of ileostomy; co	16	Obstetrics Gynecology	3
46760	Sphincteroplasty, anal, f	16	Obstetrics Gynecology	3
47010	Hepatotomy; for open dr	16	Obstetrics Gynecology	3
47015	Laparotomy, with aspira	16	Obstetrics Gynecology	3
47480	Cholecystotomy or chole	16	Obstetrics Gynecology	3
49521	Repair recurrent inguina	16	Obstetrics Gynecology	3
50360	Renal allotransplantatio	16	Obstetrics Gynecology	3
50380	Renal autotransplantati	16	Obstetrics Gynecology	3
50545	Laparoscopy, surgical; r	16	Obstetrics Gynecology	3
50650	Ureterectomy, with blad	16	Obstetrics Gynecology	3
50825	Continent diversion, incl	16	Obstetrics Gynecology	3
51520	Cystotomy; for simple ex	16	Obstetrics Gynecology	3
51597	Pelvic exenteration, com	16	Obstetrics Gynecology	3
51980	Cutaneous vesicostomy	16	Obstetrics Gynecology	3
53460	Urethromeatoplasty, wit	16	Obstetrics Gynecology	3
55810	Prostatectomy, perineal	16	Obstetrics Gynecology	3
57307	Closure of rectovaginal t	16	Obstetrics Gynecology	3
57311	Closure of urethrovagina	16	Obstetrics Gynecology	3
58346	Insertion of Heyman cap	16	Obstetrics Gynecology	3
59855	Induced abortion, by one	16	Obstetrics Gynecology	3
60271	Thyroidectomy, includin	16	Obstetrics Gynecology	3
61518	Craniectomy for excision	16	Obstetrics Gynecology	3
63017	Laminectomy with explo	16	Obstetrics Gynecology	3
64761	Transection or avulsion	16	Obstetrics Gynecology	3
64766	Transection or avulsion	16	Obstetrics Gynecology	3
67900	Repair of brow ptosis (s	16	Obstetrics Gynecology	3
67908	Repair of blepharoptosis	16	Obstetrics Gynecology	3
67911	Correction of lid retract	16	Obstetrics Gynecology	3
67961	Excision and repair of ey	16	Obstetrics Gynecology	3
77777	Interstitial radiation sour	16	Obstetrics Gynecology	3
15135	Dermal autograft, face, s	16	Obstetrics Gynecology	2
14020	Adjacent tissue transfer	16	Obstetrics Gynecology	2
14060	Adjacent tissue transfer	16	Obstetrics Gynecology	2
15300	Allograft skin for tempor	16	Obstetrics Gynecology	2
19304	Mastectomy, subcutane	16	Obstetrics Gynecology	2
20690	Application of a uniplane	16	Obstetrics Gynecology	2
21627	Sternal debridement	16	Obstetrics Gynecology	2
22310	Closed treatment of vert	16	Obstetrics Gynecology	2
22600	Arthrodesis, posterior or	16	Obstetrics Gynecology	2
22849	Reinsertion of spinal fixa	16	Obstetrics Gynecology	2
23410	Repair of ruptured musc	16	Obstetrics Gynecology	2
23430	Tenodesis of long tendo	16	Obstetrics Gynecology	2
23440	Resection or transplanta	16	Obstetrics Gynecology	2
23500	Closed treatment of clav	16	Obstetrics Gynecology	2
24500	Closed treatment of hum	16	Obstetrics Gynecology	2
24546	Open treatment of hume	16	Obstetrics Gynecology	2
24600	Treatment of closed elb	16	Obstetrics Gynecology	2
24685	Open treatment of ulnar	16	Obstetrics Gynecology	2

Attachment J_CPT codes for Surgical CAHPS 90 day globals_Updated_11-4-2011

25076	Excision, tumor, soft tissue	16	Obstetrics Gynecology	2
25560	Closed treatment of radi	16	Obstetrics Gynecology	2
25650	Closed treatment of ulna	16	Obstetrics Gynecology	2
26080	Arthrotomy, with explora	16	Obstetrics Gynecology	2
26390	Excision flexor tendon, v	16	Obstetrics Gynecology	2
27087	Removal of foreign body	16	Obstetrics Gynecology	2
27138	Revision of total hip arth	16	Obstetrics Gynecology	2
27220	Closed treatment of ace	16	Obstetrics Gynecology	2
27246	Closed treatment of grea	16	Obstetrics Gynecology	2
27520	Closed treatment of pate	16	Obstetrics Gynecology	2
27524	Open treatment of patell	16	Obstetrics Gynecology	2
27530	Closed treatment of tibia	16	Obstetrics Gynecology	2
27618	Excision, tumor, leg or a	16	Obstetrics Gynecology	2
27759	Treatment of tibial shaft	16	Obstetrics Gynecology	2
27760	Closed treatment of me	16	Obstetrics Gynecology	2
27808	Closed treatment of bim	16	Obstetrics Gynecology	2
27810	Closed treatment of bim	16	Obstetrics Gynecology	2
27814	Open treatment of bima	16	Obstetrics Gynecology	2
28400	Closed treatment of calc	16	Obstetrics Gynecology	2
28450	Treatment of tarsal bone	16	Obstetrics Gynecology	2
28530	Closed treatment of ses	16	Obstetrics Gynecology	2
28810	Amputation, metatarsal,	16	Obstetrics Gynecology	2
29820	Arthroscopy, shoulder, s	16	Obstetrics Gynecology	2
29822	Arthroscopy, shoulder, s	16	Obstetrics Gynecology	2
29845	Arthroscopy, wrist, surgi	16	Obstetrics Gynecology	2
29877	Arthroscopy, knee, surg	16	Obstetrics Gynecology	2
31032	Sinusotomy, maxillary (a	16	Obstetrics Gynecology	2
32095	Thoracotomy, limited, fo	16	Obstetrics Gynecology	2
32124	Thoracotomy, major; wit	16	Obstetrics Gynecology	2
32225	Decortication, pulmonar	16	Obstetrics Gynecology	2
32440	Removal of lung, total p	16	Obstetrics Gynecology	2
33420	Valvotomy, mitral valve;	16	Obstetrics Gynecology	2
34151	Embolectomy or thromb	16	Obstetrics Gynecology	2
34203	Embolectomy or thromb	16	Obstetrics Gynecology	2
35131	Direct repair of aneurysr	16	Obstetrics Gynecology	2
35646	Bypass graft, with other	16	Obstetrics Gynecology	2
35860	Exploration for postoper	16	Obstetrics Gynecology	2
36818	Arteriovenous anastomc	16	Obstetrics Gynecology	2
36821	Arteriovenous anastomc	16	Obstetrics Gynecology	2
38550	Excision of cystic hydror	16	Obstetrics Gynecology	2
39501	Repair, laceration of dia	16	Obstetrics Gynecology	2
39541	Repair, diaphragmatic h	16	Obstetrics Gynecology	2
43621	Gastrectomy, total; with	16	Obstetrics Gynecology	2
43800	Pyloroplasty	16	Obstetrics Gynecology	2
43810	Gastroduodenostomy	16	Obstetrics Gynecology	2
43870	Closure of gastrostomy,	16	Obstetrics Gynecology	2
44186	Laparoscopy, surgical; j	16	Obstetrics Gynecology	2
44322	Colostomy or skin level	16	Obstetrics Gynecology	2
44650	Closure of enteroenteric	16	Obstetrics Gynecology	2
44661	Closure of enterovesical	16	Obstetrics Gynecology	2
45000	Transrectal drainage of	16	Obstetrics Gynecology	2
45160	Excision of rectal tumor	16	Obstetrics Gynecology	2

Attachment J_CPT codes for Surgical CAHPS 90 day globals_Updated_11-4-2011

46045	Incision and drainage of	16	Obstetrics Gynecology	2
46200	Fissurectomy, with or wi	16	Obstetrics Gynecology	2
46260	Hemorrhoidectomy, inte	16	Obstetrics Gynecology	2
46730	Repair of high imperfora	16	Obstetrics Gynecology	2
46751	Sphincteroplasty, anal, f	16	Obstetrics Gynecology	2
46753	Graft (Thiersch operatio	16	Obstetrics Gynecology	2
47350	Management of liver he	16	Obstetrics Gynecology	2
49220	Staging laparotomy for h	16	Obstetrics Gynecology	2
49572	Repair epigastric hernia	16	Obstetrics Gynecology	2
50120	Pyelotomy; with explorat	16	Obstetrics Gynecology	2
50130	Pyelotomy; with remova	16	Obstetrics Gynecology	2
50234	Nephrectomy with total u	16	Obstetrics Gynecology	2
50236	Nephrectomy with total u	16	Obstetrics Gynecology	2
50590	Lithotripsy, extracorpore	16	Obstetrics Gynecology	2
50610	Ureterolithotomy; upper	16	Obstetrics Gynecology	2
50620	Ureterolithotomy; middle	16	Obstetrics Gynecology	2
50815	Ureterocolon conduit, in	16	Obstetrics Gynecology	2
50947	Laparoscopy, surgical; u	16	Obstetrics Gynecology	2
51050	Cystolithotomy, cystoton	16	Obstetrics Gynecology	2
51500	Excision of urachal cyst	16	Obstetrics Gynecology	2
51565	Cystectomy, partial, with	16	Obstetrics Gynecology	2
51570	Cystectomy, complete; (	16	Obstetrics Gynecology	2
51820	Cystourethroplasty with	16	Obstetrics Gynecology	2
53210	Urethrectomy, total, incl	16	Obstetrics Gynecology	2
53440	Sling operation for corre	16	Obstetrics Gynecology	2
54410	Removal and replaceme	16	Obstetrics Gynecology	2
55831	Prostatectomy (including	16	Obstetrics Gynecology	2
55840	Prostatectomy, retropub	16	Obstetrics Gynecology	2
57545	Excision of cervical stum	16	Obstetrics Gynecology	2
59830	Treatment of septic abo	16	Obstetrics Gynecology	2
60252	Thyroidectomy, total or s	16	Obstetrics Gynecology	2
60545	Adrenalectomy, partial c	16	Obstetrics Gynecology	2
61312	Craniectomy or cranioto	16	Obstetrics Gynecology	2
61512	Craniectomy, trephinatic	16	Obstetrics Gynecology	2
63001	Laminectomy with explo	16	Obstetrics Gynecology	2
63016	Laminectomy with explo	16	Obstetrics Gynecology	2
64818	Sympathectomy, lumbar	16	Obstetrics Gynecology	2
65780	Ocular surface reconstr	16	Obstetrics Gynecology	2
66986	Exchange of intraocular	16	Obstetrics Gynecology	2
67030	Discission of vitreous str	16	Obstetrics Gynecology	2
67311	Strabismus surgery, rec	16	Obstetrics Gynecology	2
67312	Strabismus surgery, rec	16	Obstetrics Gynecology	2
67950	Canthoplasty (reconstru	16	Obstetrics Gynecology	2
68320	Conjunctivoplasty; with c	16	Obstetrics Gynecology	2
25608	Open treatment of distal	16	Obstetrics Gynecology	2
35883	Revision, femoral anaste	16	Obstetrics Gynecology	2
35884	Revision, femoral anaste	16	Obstetrics Gynecology	2
15115	Epidermal autograft, fac	16	Obstetrics Gynecology	2
15175	Acellular dermal replace	16	Obstetrics Gynecology	1
43770	Laparoscopy, surgical, g	16	Obstetrics Gynecology	1
11450	Excision of skin and sub	16	Obstetrics Gynecology	1
11771	Excision of pilonidal cys	16	Obstetrics Gynecology	1

Attachment J_CPT codes for Surgical CAHPS 90 day globals_Updated_11-4-2011

11960	Insertion of tissue expan	16	Obstetrics Gynecology	1
15050	Pinch graft, single or mu	16	Obstetrics Gynecology	1
15200	Full thickness graft, free	16	Obstetrics Gynecology	1
15240	Full thickness graft, free	16	Obstetrics Gynecology	1
15570	Formation of direct or tu	16	Obstetrics Gynecology	1
15620	Delay of flap or sectionir	16	Obstetrics Gynecology	1
15760	Graft; composite (eg, ful	16	Obstetrics Gynecology	1
15783	Dermabrasion; superfici	16	Obstetrics Gynecology	1
15845	Graft for facial nerve par	16	Obstetrics Gynecology	1
15951	Excision, trochanteric pr	16	Obstetrics Gynecology	1
16035	Escharotomy; initial incis	16	Obstetrics Gynecology	1
19271	Excision of chest wall tu	16	Obstetrics Gynecology	1
19305	Mastectomy, radical, inc	16	Obstetrics Gynecology	1
19328	Removal of intact mamr	16	Obstetrics Gynecology	1
20900	Bone graft, any donor ar	16	Obstetrics Gynecology	1
20902	Bone graft, any donor ar	16	Obstetrics Gynecology	1
21030	Excision of benign tumo	16	Obstetrics Gynecology	1
21060	Menisectomy, partial or	16	Obstetrics Gynecology	1
21620	Ostectomy of sternum, p	16	Obstetrics Gynecology	1
21820	Closed treatment of ster	16	Obstetrics Gynecology	1
21930	Excision, tumor, soft tiss	16	Obstetrics Gynecology	1
22220	Osteotomy of spine, incl	16	Obstetrics Gynecology	1
22222	Osteotomy of spine, incl	16	Obstetrics Gynecology	1
22305	Closed treatment of vert	16	Obstetrics Gynecology	1
22533	Arthrodesis, lateral extra	16	Obstetrics Gynecology	1
22595	Arthrodesis, posterior te	16	Obstetrics Gynecology	1
22830	Exploration of spinal fus	16	Obstetrics Gynecology	1
23000	Removal of subdeltoid c	16	Obstetrics Gynecology	1
23076	Excision, soft tissue tum	16	Obstetrics Gynecology	1
23107	Arthrotomy, glenohumer	16	Obstetrics Gynecology	1
23405	Tenotomy, shoulder are	16	Obstetrics Gynecology	1
23465	Capsulorrhaphy, glenoh	16	Obstetrics Gynecology	1
23485	Osteotomy, clavicle, with	16	Obstetrics Gynecology	1
23570	Closed treatment of sca	16	Obstetrics Gynecology	1
23630	Open treatment of great	16	Obstetrics Gynecology	1
23675	Closed treatment of sho	16	Obstetrics Gynecology	1
24075	Excision, tumor, soft tiss	16	Obstetrics Gynecology	1
24077	Radical resection of tum	16	Obstetrics Gynecology	1
24363	Arthroplasty, elbow; with	16	Obstetrics Gynecology	1
24505	Closed treatment of hun	16	Obstetrics Gynecology	1
24650	Closed treatment of radi	16	Obstetrics Gynecology	1
24655	Closed treatment of radi	16	Obstetrics Gynecology	1
25000	Incision, extensor tendo	16	Obstetrics Gynecology	1
25111	Excision of ganglion, wri	16	Obstetrics Gynecology	1
25280	Lengthening or shortenin	16	Obstetrics Gynecology	1
25332	Arthroplasty, wrist, with	16	Obstetrics Gynecology	1
25447	Arthroplasty, interpositio	16	Obstetrics Gynecology	1
25530	Closed treatment of ulna	16	Obstetrics Gynecology	1
25545	Open treatment of ulnar	16	Obstetrics Gynecology	1
25630	Closed treatment of carp	16	Obstetrics Gynecology	1
25675	Closed treatment of dist	16	Obstetrics Gynecology	1
25820	Arthrodesis, wrist; limite	16	Obstetrics Gynecology	1

Attachment J_CPT codes for Surgical CAHPS 90 day globals_Updated_11-4-2011

26020	Drainage of tendon sheath	16	Obstetrics Gynecology	1
26055	Tendon sheath incision	16	Obstetrics Gynecology	1
26075	Arthrotomy, with exploration	16	Obstetrics Gynecology	1
26160	Excision of lesion of tendon	16	Obstetrics Gynecology	1
26210	Excision or curettage of tendon	16	Obstetrics Gynecology	1
26615	Open treatment of phalangeal	16	Obstetrics Gynecology	1
26725	Closed treatment of phalangeal	16	Obstetrics Gynecology	1
26740	Closed treatment of articular	16	Obstetrics Gynecology	1
26770	Closed treatment of interphalan	16	Obstetrics Gynecology	1
26862	Arthrodesis, interphalangeal	16	Obstetrics Gynecology	1
27025	Fasciotomy, hip or thigh	16	Obstetrics Gynecology	1
27065	Excision of bone cyst or tumor	16	Obstetrics Gynecology	1
27066	Excision of bone cyst or tumor	16	Obstetrics Gynecology	1
27067	Excision of bone cyst or tumor	16	Obstetrics Gynecology	1
27091	Removal of hip prosthesis	16	Obstetrics Gynecology	1
27137	Revision of total hip arthropl	16	Obstetrics Gynecology	1
27228	Open treatment of acetabular	16	Obstetrics Gynecology	1
27232	Closed treatment of femoral	16	Obstetrics Gynecology	1
27235	Percutaneous skeletal fixation	16	Obstetrics Gynecology	1
27238	Closed treatment of interphalan	16	Obstetrics Gynecology	1
27284	Arthrodesis, hip joint (inclu	16	Obstetrics Gynecology	1
27324	Biopsy, soft tissue of thigh	16	Obstetrics Gynecology	1
27329	Radical resection of tumor	16	Obstetrics Gynecology	1
27331	Arthrotomy, knee; including	16	Obstetrics Gynecology	1
27350	Patellectomy or hemipat	16	Obstetrics Gynecology	1
27360	Partial excision (crateriz	16	Obstetrics Gynecology	1
27365	Radical resection of tumor	16	Obstetrics Gynecology	1
27372	Removal of foreign body	16	Obstetrics Gynecology	1
27440	Arthroplasty, knee, tibial	16	Obstetrics Gynecology	1
27500	Closed treatment of femoral	16	Obstetrics Gynecology	1
27503	Closed treatment of supra	16	Obstetrics Gynecology	1
27510	Closed treatment of femoral	16	Obstetrics Gynecology	1
27596	Amputation, thigh, through	16	Obstetrics Gynecology	1
27603	Incision and drainage, leg	16	Obstetrics Gynecology	1
27630	Excision of lesion of tendon	16	Obstetrics Gynecology	1
27640	Partial excision (crateriz	16	Obstetrics Gynecology	1
27654	Repair, secondary, Achilles	16	Obstetrics Gynecology	1
27750	Closed treatment of tibial	16	Obstetrics Gynecology	1
27752	Closed treatment of tibial	16	Obstetrics Gynecology	1
27758	Open treatment of tibial	16	Obstetrics Gynecology	1
27781	Closed treatment of proximal	16	Obstetrics Gynecology	1
27792	Open treatment of distal	16	Obstetrics Gynecology	1
27818	Closed treatment of trim	16	Obstetrics Gynecology	1
27840	Closed treatment of ankle	16	Obstetrics Gynecology	1
28005	Incision, bone cortex (eg	16	Obstetrics Gynecology	1
28043	Excision, tumor, foot; su	16	Obstetrics Gynecology	1
28120	Partial excision (crateriz	16	Obstetrics Gynecology	1
28192	Removal of foreign body	16	Obstetrics Gynecology	1
28200	Repair, tendon, flexor, fo	16	Obstetrics Gynecology	1
28510	Closed treatment of frac	16	Obstetrics Gynecology	1
28825	Amputation, toe; interph	16	Obstetrics Gynecology	1
29880	Arthroscopy, knee, surg	16	Obstetrics Gynecology	1

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29881	Arthroscopy, knee, surg	16	Obstetrics Gynecology	1
29888	Arthroscopically aided a	16	Obstetrics Gynecology	1
30118	Excision or destruction (	16	Obstetrics Gynecology	1
30124	Excision dermoid cyst, n	16	Obstetrics Gynecology	1
31020	Sinusotomy, maxillary (a	16	Obstetrics Gynecology	1
31040	Pterygomaxillary fossa s	16	Obstetrics Gynecology	1
31225	Maxillectomy; without or	16	Obstetrics Gynecology	1
32320	Decortication and pariet	16	Obstetrics Gynecology	1
32484	Removal of lung, other t	16	Obstetrics Gynecology	1
32652	Thoracoscopy, surgical;	16	Obstetrics Gynecology	1
32657	Thoracoscopy, surgical;	16	Obstetrics Gynecology	1
33025	Creation of pericardial w	16	Obstetrics Gynecology	1
33213	Insertion or replacement	16	Obstetrics Gynecology	1
34201	Embolectomy or thromb	16	Obstetrics Gynecology	1
34520	Cross-over vein graft to	16	Obstetrics Gynecology	1
34802	Endovascular repair of il	16	Obstetrics Gynecology	1
34825	Placement of proximal c	16	Obstetrics Gynecology	1
35001	Direct repair of aneurysm	16	Obstetrics Gynecology	1
35302	Thromboendarterectomy	16	Obstetrics Gynecology	1
35303	Thromboendarterectomy	16	Obstetrics Gynecology	1
35304	Thromboendarterectomy	16	Obstetrics Gynecology	1
35305	Thromboendarterectomy	16	Obstetrics Gynecology	1
35341	Thromboendarterectomy	16	Obstetrics Gynecology	1
35521	Bypass graft, with vein; a	16	Obstetrics Gynecology	1
35549	Bypass graft, with vein; a	16	Obstetrics Gynecology	1
35558	Bypass graft, with vein; t	16	Obstetrics Gynecology	1
35623	Bypass graft, with other	16	Obstetrics Gynecology	1
35650	Bypass graft, with other	16	Obstetrics Gynecology	1
35666	Bypass graft, with other	16	Obstetrics Gynecology	1
35701	Exploration (not followe	16	Obstetrics Gynecology	1
35721	Exploration (not followe	16	Obstetrics Gynecology	1
35876	Thrombectomy of arteria	16	Obstetrics Gynecology	1
35879	Revision, lower extremity	16	Obstetrics Gynecology	1
35903	Excision of infected graf	16	Obstetrics Gynecology	1
36819	Arteriovenous anastomoc	16	Obstetrics Gynecology	1
37620	Interruption, partial or c	16	Obstetrics Gynecology	1
38520	Biopsy or excision of lym	16	Obstetrics Gynecology	1
38555	Excision of cystic hydror	16	Obstetrics Gynecology	1
38724	Cervical lymphadenecto	16	Obstetrics Gynecology	1
39520	Repair, diaphragmatic h	16	Obstetrics Gynecology	1
39545	Imbrication of diaphragm	16	Obstetrics Gynecology	1
40510	Excision of lip; transvers	16	Obstetrics Gynecology	1
42440	Excision of submandibu	16	Obstetrics Gynecology	1
42810	Excision branchial cleft c	16	Obstetrics Gynecology	1
42844	Radical resection of tons	16	Obstetrics Gynecology	1
43112	Total or near total esoph	16	Obstetrics Gynecology	1
43118	Partial esophagectomy,	16	Obstetrics Gynecology	1
43130	Diverticulectomy of hypc	16	Obstetrics Gynecology	1
43135	Diverticulectomy of hypc	16	Obstetrics Gynecology	1
43420	Closure of esophagosto	16	Obstetrics Gynecology	1
43500	Gastrotomy; with explor	16	Obstetrics Gynecology	1
43520	Pyloromyotomy, cutting	16	Obstetrics Gynecology	1

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43605	Biopsy of stomach; by la	16	Obstetrics Gynecology	1
43620	Gastrectomy, total; with	16	Obstetrics Gynecology	1
43634	Gastrectomy, partial, dis	16	Obstetrics Gynecology	1
43641	Vagotomy including pylc	16	Obstetrics Gynecology	1
43645	Laparoscopy, surgical, g	16	Obstetrics Gynecology	1
43846	Gastric restrictive proce	16	Obstetrics Gynecology	1
44010	Duodenotomy, for explo	16	Obstetrics Gynecology	1
44210	Laparoscopy, surgical; c	16	Obstetrics Gynecology	1
44212	Laparoscopy, surgical; c	16	Obstetrics Gynecology	1
44680	Intestinal plication (sepa	16	Obstetrics Gynecology	1
45114	Proctectomy, partial, wit	16	Obstetrics Gynecology	1
45120	Proctectomy, complete (	16	Obstetrics Gynecology	1
45135	Excision of rectal procid	16	Obstetrics Gynecology	1
46270	Surgical treatment of an	16	Obstetrics Gynecology	1
46700	Anoplasty, plastic opera	16	Obstetrics Gynecology	1
47361	Management of liver he	16	Obstetrics Gynecology	1
47380	Ablation, open, of one o	16	Obstetrics Gynecology	1
47612	Cholecystectomy with ex	16	Obstetrics Gynecology	1
48001	Placement of drains, pe	16	Obstetrics Gynecology	1
48150	Pancreatectomy, proxim	16	Obstetrics Gynecology	1
48152	Pancreatectomy, proxim	16	Obstetrics Gynecology	1
48153	Pancreatectomy, proxim	16	Obstetrics Gynecology	1
49425	Insertion of peritoneal-ve	16	Obstetrics Gynecology	1
49426	Revision of peritoneal-ve	16	Obstetrics Gynecology	1
49570	Repair epigastric hernia	16	Obstetrics Gynecology	1
49580	Repair umbilical hernia,	16	Obstetrics Gynecology	1
49582	Repair umbilical hernia,	16	Obstetrics Gynecology	1
49610	Repair of omphalocele (	16	Obstetrics Gynecology	1
49611	Repair of omphalocele (	16	Obstetrics Gynecology	1
50020	Drainage of perirenal or	16	Obstetrics Gynecology	1
50205	Renal biopsy; by surgica	16	Obstetrics Gynecology	1
50280	Excision or unroofing of	16	Obstetrics Gynecology	1
50400	Pyeloplasty (Foley Y-pye	16	Obstetrics Gynecology	1
50405	Pyeloplasty (Foley Y-pye	16	Obstetrics Gynecology	1
50548	Laparoscopy, surgical; r	16	Obstetrics Gynecology	1
50800	Ureteroenterostomy, dir	16	Obstetrics Gynecology	1
50810	Ureterosigmoidostomy, r	16	Obstetrics Gynecology	1
50830	Urinary undiversion (eg,	16	Obstetrics Gynecology	1
50840	Replacement of all or pa	16	Obstetrics Gynecology	1
50845	Cutaneous appendico-ve	16	Obstetrics Gynecology	1
51575	Cystectomy, complete; v	16	Obstetrics Gynecology	1
51596	Cystectomy, complete, v	16	Obstetrics Gynecology	1
52601	Transurethral electrosur	16	Obstetrics Gynecology	1
53250	Excision of bulbourethra	16	Obstetrics Gynecology	1
53405	Urethroplasty; second st	16	Obstetrics Gynecology	1
53446	Removal of inflatable ure	16	Obstetrics Gynecology	1
53447	Removal and replaceme	16	Obstetrics Gynecology	1
53449	Repair of inflatable ureth	16	Obstetrics Gynecology	1
53450	Urethromeatoplasty, wit	16	Obstetrics Gynecology	1
55520	Excision of lesion of spe	16	Obstetrics Gynecology	1
55842	Prostatectomy, retropub	16	Obstetrics Gynecology	1
56805	Clitoroplasty for intersex	16	Obstetrics Gynecology	1

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59140	Surgical treatment of ec	16	Obstetrics Gynecology	1
59851	Induced abortion, by one	16	Obstetrics Gynecology	1
59857	Induced abortion, by one	16	Obstetrics Gynecology	1
60200	Excision of cyst or aden	16	Obstetrics Gynecology	1
60540	Adrenalectomy, partial c	16	Obstetrics Gynecology	1
61154	Burr hole(s) with evacua	16	Obstetrics Gynecology	1
61304	Craniectomy or cranioto	16	Obstetrics Gynecology	1
61790	Creation of lesion by ste	16	Obstetrics Gynecology	1
62230	Replacement or revisior	16	Obstetrics Gynecology	1
62360	Implantation or replacen	16	Obstetrics Gynecology	1
62361	Implantation or replacen	16	Obstetrics Gynecology	1
62362	Implantation or replacen	16	Obstetrics Gynecology	1
63005	Laminectomy with explo	16	Obstetrics Gynecology	1
63015	Laminectomy with explo	16	Obstetrics Gynecology	1
63020	Laminotomy (hemilamin	16	Obstetrics Gynecology	1
63051	Laminoplasty, cervical, v	16	Obstetrics Gynecology	1
63081	Vertebral corpectomy (v	16	Obstetrics Gynecology	1
63090	Vertebral corpectomy (v	16	Obstetrics Gynecology	1
63276	Laminectomy for biopsy,	16	Obstetrics Gynecology	1
63305	Vertebral corpectomy (v	16	Obstetrics Gynecology	1
63650	Percutaneous implantat	16	Obstetrics Gynecology	1
64573	Incision for implantation	16	Obstetrics Gynecology	1
64580	Incision for implantation	16	Obstetrics Gynecology	1
64721	Neuroplasty and/or trans	16	Obstetrics Gynecology	1
64760	Transection or avulsion	16	Obstetrics Gynecology	1
64774	Excision of neuroma; cu	16	Obstetrics Gynecology	1
64856	Suture of major peripher	16	Obstetrics Gynecology	1
65101	Enucleation of eye; with	16	Obstetrics Gynecology	1
65140	Insertion of ocular impla	16	Obstetrics Gynecology	1
65175	Removal of ocular impla	16	Obstetrics Gynecology	1
65285	Repair of laceration; cor	16	Obstetrics Gynecology	1
65436	Removal of corneal epit	16	Obstetrics Gynecology	1
65750	Keratoplasty (corneal tra	16	Obstetrics Gynecology	1
65810	Paracentesis of anterior	16	Obstetrics Gynecology	1
65815	Paracentesis of anterior	16	Obstetrics Gynecology	1
65875	Severing adhesions of a	16	Obstetrics Gynecology	1
66170	Fistulization of sclera fo	16	Obstetrics Gynecology	1
66250	Revision or repair of ope	16	Obstetrics Gynecology	1
66720	Ciliary body destruction;	16	Obstetrics Gynecology	1
66840	Removal of lens materia	16	Obstetrics Gynecology	1
66985	Insertion of intraocular le	16	Obstetrics Gynecology	1
67010	Removal of vitreous, ant	16	Obstetrics Gynecology	1
67145	Prophylaxis of retinal de	16	Obstetrics Gynecology	1
67412	Orbitotomy without bone	16	Obstetrics Gynecology	1
67882	Construction of intermar	16	Obstetrics Gynecology	1
67973	Reconstruction of eyelid	16	Obstetrics Gynecology	1
67975	Reconstruction of eyelid	16	Obstetrics Gynecology	1
68550	Excision of lacrimal glan	16	Obstetrics Gynecology	1
68700	Plastic repair of canalicu	16	Obstetrics Gynecology	1
69110	Excision external ear; pa	16	Obstetrics Gynecology	1
15100	Split-thickness autograft	16	Obstetrics Gynecology	1
25607	Open treatment of distal	16	Obstetrics Gynecology	1

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32504	Resection of apical lung	16	Obstetrics Gynecology	1	
43845	Gastric restrictive proce	16	Obstetrics Gynecology	1	
15731	Forehead flap with prese	16	Obstetrics Gynecology	1	
45119	Proctectomy, combined	16	Obstetrics Gynecology	1	
35637	Bypass graft, with other	16	Obstetrics Gynecology	1	
35638	Bypass graft, with other	16	Obstetrics Gynecology	1	
32503	Resection of apical lung	16	Obstetrics Gynecology	0	
45397	Laparoscopy, surgical; p	16	Obstetrics Gynecology	0	
15732	Muscle, myocutaneous,	16	Obstetrics Gynecology	0	
44157	Colectomy, total, abdom	16	Obstetrics Gynecology	0	
44158	Colectomy, total, abdom	16	Obstetrics Gynecology	0	
43886	Gastric restrictive proce	16	Obstetrics Gynecology	0	
43887	Gastric restrictive proce	16	Obstetrics Gynecology	0	
43888	Gastric restrictive proce	16	Obstetrics Gynecology	0	
15155	Tissue cultured epiderm	16	Obstetrics Gynecology	0	
43774	Laparoscopy, surgical, g	16	Obstetrics Gynecology	0	
43771	Laparoscopy, surgical, g	16	Obstetrics Gynecology	0	
43772	Laparoscopy, surgical, g	16	Obstetrics Gynecology	0	
43773	Laparoscopy, surgical, g	16	Obstetrics Gynecology	0	
64910	Nerve repair; with synthe	16	Obstetrics Gynecology	0	
64911	Nerve repair; with autog	16	Obstetrics Gynecology	0	
46710	Repair of ileoanal pouch	16	Obstetrics Gynecology	0	
46712	Repair of ileoanal pouch	16	Obstetrics Gynecology	0	
15110	Epidermal autograft, tru	16	Obstetrics Gynecology	0	
15130	Dermal autograft, trunk,	16	Obstetrics Gynecology	0	
15150	Tissue cultured epiderm	16	Obstetrics Gynecology	0	204,731
66984	Extracapsular cataract r	18	Ophthalmology	1,835,688	
66821	Discission of secondary	18	Ophthalmology	606,204	
67210	Destruction of localized	18	Ophthalmology	144,357	
67228	Treatment of extensive c	18	Ophthalmology	97,107	
66982	Extracapsular cataract r	18	Ophthalmology	94,693	
66761	Iridotomy/iridectomy by	18	Ophthalmology	81,147	
15823	Blepharoplasty, upper e	18	Ophthalmology	59,735	
67904	Repair of blepharoptosis	18	Ophthalmology	40,783	
66170	Fistulization of sclera fo	18	Ophthalmology	22,378	
67108	Repair of retinal detachr	18	Ophthalmology	21,713	
67040	Vitrectomy, mechanical,	18	Ophthalmology	21,696	
67917	Repair of ectropion; exte	18	Ophthalmology	20,936	
67145	Prophylaxis of retinal de	18	Ophthalmology	19,035	
67220	Destruction of localized	18	Ophthalmology	18,037	
67036	Vitrectomy, mechanical,	18	Ophthalmology	14,701	
65755	Keratoplasty (corneal tra	18	Ophthalmology	10,997	
66172	Fistulization of sclera fo	18	Ophthalmology	10,938	
67924	Repair of entropion; exte	18	Ophthalmology	10,357	
66250	Revision or repair of ope	18	Ophthalmology	10,328	
66180	Aqueous shunt to extrac	18	Ophthalmology	8,972	
67900	Repair of brow ptosis (s	18	Ophthalmology	7,549	
67961	Excision and repair of ey	18	Ophthalmology	6,408	
66711	Ciliary body destruction;	18	Ophthalmology	6,406	
67255	Scleral reinforcement (s	18	Ophthalmology	6,166	
66986	Exchange of intraocular	18	Ophthalmology	5,849	
66985	Insertion of intraocular l	18	Ophthalmology	5,799	

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68720	Dacryocystorhinostomy	18	Ophthalmology	5,611
14060	Adjacent tissue transfer	18	Ophthalmology	5,576
67966	Excision and repair of eyelid	18	Ophthalmology	5,339
67105	Repair of retinal detachment	18	Ophthalmology	5,332
67921	Repair of entropion; sutures	18	Ophthalmology	5,275
65426	Excision or transposition of eyelid	18	Ophthalmology	4,979
67950	Canthoplasty (reconstruction)	18	Ophthalmology	4,976
66710	Ciliary body destruction; laser	18	Ophthalmology	4,682
15260	Full thickness graft, free	18	Ophthalmology	4,677
66850	Removal of lens material	18	Ophthalmology	4,613
65730	Keratoplasty (corneal transplant)	18	Ophthalmology	4,612
65772	Corneal relaxing incision	18	Ophthalmology	4,583
67039	Vitreotomy, mechanical, laser	18	Ophthalmology	4,561
65400	Excision of lesion, cornea	18	Ophthalmology	4,509
66825	Repositioning of intraocular lens	18	Ophthalmology	4,390
65420	Excision or transposition of eyelid	18	Ophthalmology	4,240
67010	Removal of vitreous, anterior	18	Ophthalmology	4,150
67916	Repair of ectropion; excision	18	Ophthalmology	3,805
68320	Conjunctivoplasty; with tarsal	18	Ophthalmology	3,672
67110	Repair of retinal detachment	18	Ophthalmology	3,479
67107	Repair of retinal detachment	18	Ophthalmology	3,471
67031	Severing of vitreous strands	18	Ophthalmology	3,464
66762	Iridoplasty by photocoagulation	18	Ophthalmology	3,306
67908	Repair of blepharoptosis	18	Ophthalmology	3,295
67923	Repair of entropion; excision	18	Ophthalmology	3,290
67311	Strabismus surgery, recession	18	Ophthalmology	2,842
67880	Construction of intermarital	18	Ophthalmology	2,549
68700	Plastic repair of canaliculus	18	Ophthalmology	2,533
67911	Correction of lid retraction	18	Ophthalmology	2,396
67903	Repair of blepharoptosis	18	Ophthalmology	2,285
15822	Blepharoplasty, upper eyelid	18	Ophthalmology	2,236
67141	Prophylaxis of retinal detachment	18	Ophthalmology	2,225
65875	Severing adhesions of anterior	18	Ophthalmology	2,151
15731	Forehead flap with preseptal	18	Ophthalmology	2,127
65780	Ocular surface reconstruction	18	Ophthalmology	2,008
67025	Injection of vitreous substitute	18	Ophthalmology	1,949
67005	Removal of vitreous, anterior	18	Ophthalmology	1,868
67015	Aspiration or release of vitreous	18	Ophthalmology	1,824
67314	Strabismus surgery, recession	18	Ophthalmology	1,739
67914	Repair of ectropion; sutures	18	Ophthalmology	1,727
67312	Strabismus surgery, recession	18	Ophthalmology	1,693
68326	Conjunctivoplasty, recession	18	Ophthalmology	1,666
65860	Severing adhesions of anterior	18	Ophthalmology	1,561
67101	Repair of retinal detachment	18	Ophthalmology	1,518
66840	Removal of lens material	18	Ophthalmology	1,503
67412	Orbitotomy without bone	18	Ophthalmology	1,503
67400	Orbitotomy without bone	18	Ophthalmology	1,463
66852	Removal of lens material	18	Ophthalmology	1,363
66682	Suture of iris, ciliary body	18	Ophthalmology	1,241
15732	Muscle, myocutaneous, forehead	18	Ophthalmology	1,239
66625	Iridectomy, with corneal	18	Ophthalmology	1,237
66185	Revision of aqueous shunt	18	Ophthalmology	1,206

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65285	Repair of laceration; cor	18	Ophthalmology	1,126
65436	Removal of corneal epit	18	Ophthalmology	1,126
67121	Removal of implanted m	18	Ophthalmology	1,109
65870	Severing adhesions of a	18	Ophthalmology	1,098
65710	Keratoplasty (corneal tra	18	Ophthalmology	1,080
67975	Reconstruction of eyelid	18	Ophthalmology	1,078
67971	Reconstruction of eyelid	18	Ophthalmology	1,064
65750	Keratoplasty (corneal tra	18	Ophthalmology	1,063
14040	Adjacent tissue transfer	18	Ophthalmology	1,045
67112	Repair of retinal detachr	18	Ophthalmology	999
65105	Enucleation of eye; with	18	Ophthalmology	984
21282	Lateral canthopexy	18	Ophthalmology	978
67120	Removal of implanted m	18	Ophthalmology	959
67882	Construction of intermar	18	Ophthalmology	955
67973	Reconstruction of eyelid	18	Ophthalmology	946
65865	Severing adhesions of a	18	Ophthalmology	928
68750	Conjunctivorhinostomy (	18	Ophthalmology	812
65920	Removal of implanted m	18	Ophthalmology	798
66940	Removal of lens materia	18	Ophthalmology	795
67901	Repair of blepharoptosis	18	Ophthalmology	778
65815	Paracentesis of anterior	18	Ophthalmology	732
67912	Correction of lagophthal	18	Ophthalmology	717
65450	Destruction of lesion of c	18	Ophthalmology	695
66820	Discission of secondary	18	Ophthalmology	667
67227	Destruction of extensive	18	Ophthalmology	659
31200	Ethmoidectomy; intrana	18	Ophthalmology	637
30130	Excision inferior turbinat	18	Ophthalmology	615
67218	Destruction of localized	18	Ophthalmology	611
67935	Suture of recent wound,	18	Ophthalmology	597
66680	Repair of iris, ciliary bod	18	Ophthalmology	592
65093	Evisceration of ocular co	18	Ophthalmology	591
65600	Multiple punctures of an	18	Ophthalmology	589
67915	Repair of ectropion; ther	18	Ophthalmology	557
15576	Formation of direct or tu	18	Ophthalmology	540
66720	Ciliary body destruction;	18	Ophthalmology	494
65930	Removal of blood clot, a	18	Ophthalmology	488
65286	Repair of laceration; app	18	Ophthalmology	487
66225	Repair of scleral staphyl	18	Ophthalmology	474
66830	Removal of secondary n	18	Ophthalmology	458
14061	Adjacent tissue transfer	18	Ophthalmology	433
65810	Paracentesis of anterior	18	Ophthalmology	430
68362	Conjunctival flap; total (s	18	Ophthalmology	386
67208	Destruction of localized	18	Ophthalmology	371
31205	Ethmoidectomy; extrana	18	Ophthalmology	355
65850	Trabeculotomy ab exter	18	Ophthalmology	333
68330	Repair of symblepharon	18	Ophthalmology	332
67922	Repair of entropion; ther	18	Ophthalmology	324
68130	Excision of lesion, conju	18	Ophthalmology	300
67027	Implantation of intravitre	18	Ophthalmology	296
66983	Intracapsular cataract ex	18	Ophthalmology	287
67909	Reduction of overcorrec	18	Ophthalmology	278
65280	Repair of laceration; cor	18	Ophthalmology	277

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66740	Ciliary body destruction;	18	Ophthalmology	273
21390	Open treatment of orbita	18	Ophthalmology	270
65770	Keratoprosthesis	18	Ophthalmology	268
67974	Reconstruction of eyelid	18	Ophthalmology	262
66160	Fistulization of sclera for	18	Ophthalmology	259
65103	Enucleation of eye; with	18	Ophthalmology	256
67445	Orbitotomy with bone fla	18	Ophthalmology	246
67414	Orbitotomy without bone	18	Ophthalmology	241
21280	Medial canthopexy (sepa	18	Ophthalmology	233
65235	Removal of foreign body	18	Ophthalmology	233
13160	Secondary closure of su	18	Ophthalmology	214
65782	Ocular surface reconstru	18	Ophthalmology	213
15845	Graft for facial nerve par	18	Ophthalmology	210
67316	Strabismus surgery, rec	18	Ophthalmology	210
67808	Excision of chalazion; un	18	Ophthalmology	209
67030	Discission of vitreous str	18	Ophthalmology	203
15821	Blepharoplasty, lower ey	18	Ophthalmology	201
67318	Strabismus surgery, any	18	Ophthalmology	195
65265	Removal of foreign body	18	Ophthalmology	194
66770	Destruction of cyst or les	18	Ophthalmology	188
68328	Conjunctivoplasty, recor	18	Ophthalmology	185
68360	Conjunctival flap; bridge	18	Ophthalmology	182
66500	Iridotomy by stab incisio	18	Ophthalmology	181
67343	Release of extensive sc	18	Ophthalmology	180
68335	Repair of symblepharon	18	Ophthalmology	180
66635	Iridectomy, with corneos	18	Ophthalmology	178
21235	Graft; ear cartilage, autc	18	Ophthalmology	177
68520	Excision of lacrimal sac	18	Ophthalmology	173
20926	Tissue grafts, other (eg,	18	Ophthalmology	168
46934	Destruction of hemorrhoid	18	Ophthalmology	168
15740	Flap; island pedicle	18	Ophthalmology	164
66630	Iridectomy, with corneos	18	Ophthalmology	164
66150	Fistulization of sclera for	18	Ophthalmology	161
67420	Orbitotomy with bone fla	18	Ophthalmology	161
65175	Removal of ocular impla	18	Ophthalmology	150
67550	Orbital implant (implant	18	Ophthalmology	148
67560	Orbital implant (implant	18	Ophthalmology	147
15120	Split-thickness autograft	18	Ophthalmology	147
15770	Graft; derma-fat-fascia	18	Ophthalmology	139
17108	Destruction of cutaneous	18	Ophthalmology	132
65775	Corneal wedge resection	18	Ophthalmology	132
68340	Repair of symblepharon	18	Ophthalmology	131
14041	Adjacent tissue transfer	18	Ophthalmology	127
15430	Acellular xenograft impla	18	Ophthalmology	126
67413	Orbitotomy without bone	18	Ophthalmology	125
67405	Orbitotomy without bone	18	Ophthalmology	120
65880	Severing adhesions of a	18	Ophthalmology	114
67902	Repair of blepharoptosis	18	Ophthalmology	113
66130	Excision of lesion, sclera	18	Ophthalmology	105
30520	Septoplasty or submuco	18	Ophthalmology	103
65110	Exenteration of orbit (do	18	Ophthalmology	103
66930	Removal of lens materia	18	Ophthalmology	100

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65101	Enucleation of eye; with	18	Ophthalmology	98
65275	Repair of laceration; cor	18	Ophthalmology	93
65091	Evisceration of ocular co	18	Ophthalmology	92
15760	Graft; composite (eg, ful	18	Ophthalmology	91
15240	Full thickness graft, free	18	Ophthalmology	90
66600	Iridectomy, with corneos	18	Ophthalmology	90
67115	Release of encircling ma	18	Ophthalmology	84
67450	Orbitotomy with bone fla	18	Ophthalmology	84
65781	Ocular surface reconstru	18	Ophthalmology	82
30140	Submucous resection in	18	Ophthalmology	79
66155	Fistulization of sclera for	18	Ophthalmology	77
67570	Optic nerve decompress	18	Ophthalmology	77
67835	Correction of trichiasis; i	18	Ophthalmology	77
15820	Blepharoplasty, lower ey	18	Ophthalmology	76
49505	Repair initial inguinal he	18	Ophthalmology	76
66920	Removal of lens materia	18	Ophthalmology	73
65272	Repair of laceration; cor	18	Ophthalmology	72
47563	Laparoscopy, surgical; c	18	Ophthalmology	70
17107	Destruction of cutaneou	18	Ophthalmology	67
65900	Removal of epithelial do	18	Ophthalmology	67
68325	Conjunctivoplasty; with t	18	Ophthalmology	64
15320	Allograft skin for tempor	18	Ophthalmology	63
40818	Excision of mucosa of v	18	Ophthalmology	61
66700	Ciliary body destruction;	18	Ophthalmology	59
15335	Acellular dermal allograf	18	Ophthalmology	58
29848	Endoscopy, wrist, surgic	18	Ophthalmology	51
21407	Open treatment of fractu	18	Ophthalmology	50
44204	Laparoscopy, surgical; c	18	Ophthalmology	48
33533	Coronary artery bypass,	18	Ophthalmology	47
65290	Repair of wound, extrao	18	Ophthalmology	47
65820	Goniotomy	18	Ophthalmology	47
15115	Epidermal autograft, fac	18	Ophthalmology	47
15630	Delay of flap or sectionir	18	Ophthalmology	46
21015	Radical resection of tum	18	Ophthalmology	46
49560	Repair initial incisional o	18	Ophthalmology	46
20680	Removal of implant; dee	18	Ophthalmology	45
65155	Reinsertion of ocular im	18	Ophthalmology	45
67250	Scleral reinforcement (s	18	Ophthalmology	45
14020	Adjacent tissue transfer	18	Ophthalmology	43
14300	Adjacent tissue transfer	18	Ophthalmology	43
27447	Arthroplasty, knee, cond	18	Ophthalmology	43
68770	Closure of lacrimal fistul	18	Ophthalmology	42
44140	Colectomy, partial; with	18	Ophthalmology	41
47562	Laparoscopy, surgical; c	18	Ophthalmology	41
46260	Hemorrhoidectomy, inte	18	Ophthalmology	39
65150	Reinsertion of ocular im	18	Ophthalmology	39
17106	Destruction of cutaneou	18	Ophthalmology	38
44145	Colectomy, partial; with	18	Ophthalmology	38
15840	Graft for facial nerve par	18	Ophthalmology	37
68505	Excision of lacrimal glan	18	Ophthalmology	37
15574	Formation of direct or tu	18	Ophthalmology	36
68540	Excision of lacrimal glan	18	Ophthalmology	36

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67440	Orbitotomy with bone flap	18	Ophthalmology	35
44120	Enterectomy, resection of	18	Ophthalmology	34
65140	Insertion of ocular implant	18	Ophthalmology	34
21365	Open treatment of conjunctiv	18	Ophthalmology	33
65125	Modification of ocular implant	18	Ophthalmology	32
67906	Repair of blepharoptosis	18	Ophthalmology	31
21930	Excision, tumor, soft tissue	18	Ophthalmology	30
15135	Dermal autograft, face, scalp	18	Ophthalmology	29
21256	Reconstruction of orbit with	18	Ophthalmology	29
64742	Transection or avulsion	18	Ophthalmology	29
14021	Adjacent tissue transfer	18	Ophthalmology	28
44160	Colectomy, partial, with	18	Ophthalmology	28
65135	Insertion of ocular implant	18	Ophthalmology	28
31090	Sinusotomy, unilateral, trans	18	Ophthalmology	25
45170	Excision of rectal tumor, su	18	Ophthalmology	25
65130	Insertion of ocular implant	18	Ophthalmology	25
15220	Full thickness graft, free	18	Ophthalmology	24
31201	Ethmoidectomy; intranasal	18	Ophthalmology	24
61333	Exploration of orbit (trans	18	Ophthalmology	24
66605	Iridectomy, with corneostom	18	Ophthalmology	24
68745	Conjunctivorhinostomy (tra	18	Ophthalmology	23
21270	Malar augmentation, procedure	18	Ophthalmology	22
44143	Colectomy, partial; with	18	Ophthalmology	22
60220	Total thyroid lobectomy,	18	Ophthalmology	22
46947	Hemorrhoidopexy (eg, for	18	Ophthalmology	21
33208	Insertion or replacement	18	Ophthalmology	20
33405	Replacement, aortic valve	18	Ophthalmology	20
42415	Excision of parotid tumor	18	Ophthalmology	20
65114	Exenteration of orbit (do	18	Ophthalmology	20
15175	Acellular dermal replacement	18	Ophthalmology	19
26055	Tendon sheath incision	18	Ophthalmology	19
21172	Reconstruction superior	18	Ophthalmology	18
27236	Open treatment of femoral	18	Ophthalmology	18
29826	Arthroscopy, shoulder, s	18	Ophthalmology	18
29824	Arthroscopy, shoulder, s	18	Ophthalmology	17
47600	Cholecystectomy;	18	Ophthalmology	17
64722	Decompression; unspecified	18	Ophthalmology	17
15200	Full thickness graft, free	18	Ophthalmology	16
19301	Mastectomy, partial (eg,	18	Ophthalmology	16
21386	Open treatment of orbital	18	Ophthalmology	16
29825	Arthroscopy, shoulder, s	18	Ophthalmology	16
44208	Laparoscopy, surgical; c	18	Ophthalmology	16
49585	Repair umbilical hernia,	18	Ophthalmology	16
65112	Exenteration of orbit (do	18	Ophthalmology	16
65273	Repair of laceration; cor	18	Ophthalmology	16
31225	Maxillectomy; without or	18	Ophthalmology	15
44207	Laparoscopy, surgical; c	18	Ophthalmology	15
45100	Biopsy of anorectal wall,	18	Ophthalmology	15
46275	Surgical treatment of an	18	Ophthalmology	15
49565	Repair recurrent incisor	18	Ophthalmology	15
66165	Fistulization of sclera for	18	Ophthalmology	15
29879	Arthroscopy, knee, surg	18	Ophthalmology	14

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29880	Arthroscopy, knee, surg	18	Ophthalmology	14
31610	Tracheostomy, fenestra	18	Ophthalmology	14
49520	Repair recurrent inguina	18	Ophthalmology	14
60500	Parathyroidectomy or ex	18	Ophthalmology	14
61330	Decompression of orbit	18	Ophthalmology	14
65260	Removal of foreign body	18	Ophthalmology	14
66220	Repair of scleral staphyl	18	Ophthalmology	14
14000	Adjacent tissue transfer	18	Ophthalmology	13
19125	Excision of breast lesion	18	Ophthalmology	13
19307	Mastectomy, modified ra	18	Ophthalmology	13
21138	Reduction forehead; cor	18	Ophthalmology	13
30124	Excision dermoid cyst, n	18	Ophthalmology	13
42120	Resection of palate or e	18	Ophthalmology	13
20922	Fascia lata graft; by inci	18	Ophthalmology	12
23410	Repair of ruptured musc	18	Ophthalmology	12
29819	Arthroscopy, shoulder, s	18	Ophthalmology	12
38525	Biopsy or excision of lym	18	Ophthalmology	12
38724	Cervical lymphadenecto	18	Ophthalmology	12
49561	Repair initial incisional o	18	Ophthalmology	12
77761	Intracavitary radiation sc	18	Ophthalmology	12
21179	Reconstruction, entire o	18	Ophthalmology	11
44205	Laparoscopy, surgical; c	18	Ophthalmology	11
21555	Excision tumor, soft tiss	18	Ophthalmology	10
27244	Treatment of intertrocha	18	Ophthalmology	10
29873	Arthroscopy, knee, surg	18	Ophthalmology	10
30117	Excision or destruction (	18	Ophthalmology	10
31030	Sinusotomy, maxillary (a	18	Ophthalmology	10
42826	Tonsillectomy, primary c	18	Ophthalmology	10
44005	Enterolysis (freeing of in	18	Ophthalmology	10
60210	Partial thyroid lobectomy	18	Ophthalmology	10
14001	Adjacent tissue transfer	18	Ophthalmology	9
26116	Excision, tumor or vascu	18	Ophthalmology	9
31020	Sinusotomy, maxillary (a	18	Ophthalmology	9
41112	Excision of lesion of ton	18	Ophthalmology	9
42440	Excision of submandibu	18	Ophthalmology	9
43830	Gastrostomy, open; with	18	Ophthalmology	9
61885	Insertion or replacement	18	Ophthalmology	9
64716	Neuroplasty and/or trans	18	Ophthalmology	9
64721	Neuroplasty and/or trans	18	Ophthalmology	9
69145	Excision soft tissue lesio	18	Ophthalmology	9
19305	Mastectomy, radical, inc	18	Ophthalmology	8
21208	Osteoplasty, facial bone	18	Ophthalmology	8
21360	Open treatment of depre	18	Ophthalmology	8
26531	Arthroplasty, metacarpo	18	Ophthalmology	8
32657	Thoracoscopy, surgical;	18	Ophthalmology	8
44626	Closure of enterostomy,	18	Ophthalmology	8
45130	Excision of rectal procid	18	Ophthalmology	8
46060	Incision and drainage of	18	Ophthalmology	8
46255	Hemorrhoidectomy, inte	18	Ophthalmology	8
50820	Ureteroileal conduit (ilea	18	Ophthalmology	8
61332	Exploration of orbit (tran	18	Ophthalmology	8
64573	Incision for implantation	18	Ophthalmology	8

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66505	Iridotomy by stab incision	18	Ophthalmology	8
69633	Tympanoplasty without mastoidectomy	18	Ophthalmology	8
44227	Laparoscopy, surgical, diagnostic	18	Ophthalmology	7
21077	Impression and custom contact lens	18	Ophthalmology	7
21406	Open treatment of fracture of cornea	18	Ophthalmology	7
21556	Excision tumor, soft tissue of cornea	18	Ophthalmology	7
25600	Closed treatment of distal biceps tendon	18	Ophthalmology	7
28022	Arthrotomy, including excision of loose body	18	Ophthalmology	7
29807	Arthroscopy, shoulder, surgical	18	Ophthalmology	7
33207	Insertion or replacement of intraocular lens	18	Ophthalmology	7
33213	Insertion or replacement of intraocular lens	18	Ophthalmology	7
42420	Excision of parotid tumor	18	Ophthalmology	7
44620	Closure of enterostomy, with or without mesh	18	Ophthalmology	7
46200	Fissurectomy, with or without repair	18	Ophthalmology	7
46700	Anoplasty, plastic operation	18	Ophthalmology	7
47100	Biopsy of liver, wedge	18	Ophthalmology	7
58940	Oophorectomy, partial or total	18	Ophthalmology	7
60240	Thyroidectomy, total or subtotal	18	Ophthalmology	7
19303	Mastectomy, simple, contralateral	18	Ophthalmology	6
20920	Fascia lata graft; by strip	18	Ophthalmology	6
21501	Incision and drainage, distal	18	Ophthalmology	6
25310	Tendon transplantation	18	Ophthalmology	6
25447	Arthroplasty, interposition	18	Ophthalmology	6
26860	Arthrodesis, interphalangeal	18	Ophthalmology	6
28285	Correction, hammertoe	18	Ophthalmology	6
29822	Arthroscopy, shoulder, surgical	18	Ophthalmology	6
30120	Excision or surgical planar	18	Ophthalmology	6
33233	Removal of permanent intraocular lens	18	Ophthalmology	6
38100	Splenectomy; total (separate procedure)	18	Ophthalmology	6
40520	Excision of lip; V-excision	18	Ophthalmology	6
44970	Laparoscopy, surgical, diagnostic	18	Ophthalmology	6
46040	Incision and drainage of abscess	18	Ophthalmology	6
49525	Repair inguinal hernia, simple	18	Ophthalmology	6
49587	Repair umbilical hernia, simple	18	Ophthalmology	6
64718	Neuroplasty and/or transection	18	Ophthalmology	6
64870	Anastomosis; facial-pharyngeal	18	Ophthalmology	6
69631	Tympanoplasty without mastoidectomy	18	Ophthalmology	6
69645	Tympanoplasty with mastoidectomy	18	Ophthalmology	6
44188	Laparoscopy, surgical, diagnostic	18	Ophthalmology	5
15620	Delay of flap or sectioning	18	Ophthalmology	5
20910	Cartilage graft; costochondral	18	Ophthalmology	5
27301	Incision and drainage, distal	18	Ophthalmology	5
27324	Biopsy, soft tissue of thigh	18	Ophthalmology	5
29875	Arthroscopy, knee, surgical	18	Ophthalmology	5
30115	Excision, nasal polyp(s)	18	Ophthalmology	5
32220	Decortication, pulmonary	18	Ophthalmology	5
44150	Colectomy, total, abdominal	18	Ophthalmology	5
44310	Ileostomy or jejunostomy	18	Ophthalmology	5
45123	Proctectomy, partial, with or without mesh	18	Ophthalmology	5
45560	Repair of rectocele (separate procedure)	18	Ophthalmology	5
49000	Exploratory laparotomy, diagnostic	18	Ophthalmology	5
49020	Drainage of peritoneal abscess	18	Ophthalmology	5

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58720	Salpingo-oophorectomy	18	Ophthalmology	5
67430	Orbitotomy with bone flap	18	Ophthalmology	5
69110	Excision external ear; partial	18	Ophthalmology	5
69644	Tympanoplasty with mastoidectomy	18	Ophthalmology	5
69717	Replacement (including prosthesis)	18	Ophthalmology	5
69801	Labyrinthotomy, with or without	18	Ophthalmology	5
69840	Revision fenestration operation	18	Ophthalmology	5
44625	Closure of enterostomy, ileostomy	18	Ophthalmology	5
45395	Laparoscopy, surgical; initial	18	Ophthalmology	5
15155	Tissue cultured epidermal graft	18	Ophthalmology	4
44130	Enteroenterostomy, anastomosis	18	Ophthalmology	4
11470	Excision of skin and subcutaneous	18	Ophthalmology	4
19120	Excision of cyst, fibroadenoma	18	Ophthalmology	4
20912	Cartilage graft; nasal septum	18	Ophthalmology	4
21026	Excision of bone (eg, for fracture)	18	Ophthalmology	4
21029	Removal by contouring	18	Ophthalmology	4
21034	Excision of malignant tumor	18	Ophthalmology	4
21230	Graft; rib cartilage, autogenous	18	Ophthalmology	4
21248	Reconstruction of mandible	18	Ophthalmology	4
21267	Orbital repositioning, periorbital	18	Ophthalmology	4
21385	Open treatment of orbital fracture	18	Ophthalmology	4
25111	Excision of ganglion, wrist	18	Ophthalmology	4
27130	Arthroplasty, acetabular	18	Ophthalmology	4
30915	Ligation arteries; ethmoid	18	Ophthalmology	4
31050	Sinusotomy, sphenoid, vertical	18	Ophthalmology	4
31051	Sinusotomy, sphenoid, vertical	18	Ophthalmology	4
31613	Tracheostoma revision; revision	18	Ophthalmology	4
32120	Thoracotomy, major; for	18	Ophthalmology	4
33251	Operative ablation of supraventricular	18	Ophthalmology	4
33427	Valvuloplasty, mitral valve	18	Ophthalmology	4
33510	Coronary artery bypass, arterial	18	Ophthalmology	4
43820	Gastrojejunostomy; with	18	Ophthalmology	4
44050	Reduction of volvulus, intestinal	18	Ophthalmology	4
44141	Colectomy, partial; with	18	Ophthalmology	4
44314	Revision of ileostomy; closure	18	Ophthalmology	4
44602	Suture of small intestine	18	Ophthalmology	4
44604	Suture of large intestine	18	Ophthalmology	4
46045	Incision and drainage of abscess	18	Ophthalmology	4
46257	Hemorrhoidectomy, internal	18	Ophthalmology	4
46280	Surgical treatment of anal fissure	18	Ophthalmology	4
47605	Cholecystectomy; with cholecystitis	18	Ophthalmology	4
49553	Repair initial femoral head	18	Ophthalmology	4
60225	Total thyroid lobectomy, unilateral	18	Ophthalmology	4
60260	Thyroidectomy, removal of	18	Ophthalmology	4
61601	Resection or excision of	18	Ophthalmology	4
61751	Stereotactic biopsy, aspirate	18	Ophthalmology	4
64840	Suture of posterior tibial	18	Ophthalmology	4
25609	Open treatment of distal	18	Ophthalmology	4
44187	Laparoscopy, surgical; initial	18	Ophthalmology	4
15100	Split-thickness autograft	18	Ophthalmology	4
44320	Colostomy or skin level	18	Ophthalmology	4
11772	Excision of pilonidal cyst	18	Ophthalmology	3

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11960	Insertion of tissue expan	18	Ophthalmology	3
15300	Allograft skin for tempor	18	Ophthalmology	3
15841	Graft for facial nerve pa	18	Ophthalmology	3
15936	Excision, sacral pressur	18	Ophthalmology	3
21182	Reconstruction of orbita	18	Ophthalmology	3
21330	Open treatment of nasa	18	Ophthalmology	3
21337	Closed treatment of nas	18	Ophthalmology	3
21338	Open treatment of naso	18	Ophthalmology	3
21387	Open treatment of orbita	18	Ophthalmology	3
21408	Open treatment of fractu	18	Ophthalmology	3
21557	Radical resection of tum	18	Ophthalmology	3
23650	Closed treatment of sho	18	Ophthalmology	3
26160	Excision of lesion of ten	18	Ophthalmology	3
28470	Closed treatment of met	18	Ophthalmology	3
31032	Sinusotomy, maxillary (a	18	Ophthalmology	3
31075	Sinusotomy frontal; tran	18	Ophthalmology	3
31365	Laryngectomy; total, with	18	Ophthalmology	3
33430	Replacement, mitral valv	18	Ophthalmology	3
35301	Thromboendarterectomy	18	Ophthalmology	3
38700	Suprahyoid lymphadene	18	Ophthalmology	3
38720	Cervical lymphadenecto	18	Ophthalmology	3
38745	Axillary lymphadenector	18	Ophthalmology	3
41113	Excision of lesion of ton	18	Ophthalmology	3
41120	Glossectomy; less than	18	Ophthalmology	3
42821	Tonsillectomy and aden	18	Ophthalmology	3
43130	Diverticulectomy of hypc	18	Ophthalmology	3
43631	Gastrectomy, partial, dis	18	Ophthalmology	3
43633	Gastrectomy, partial, dis	18	Ophthalmology	3
44346	Revision of colostomy; v	18	Ophthalmology	3
44960	Appendectomy; for ruptu	18	Ophthalmology	3
45400	Laparoscopy, surgical; p	18	Ophthalmology	3
45541	Proctopexy (eg, for prol	18	Ophthalmology	3
46250	Hemorrhoidectomy, exte	18	Ophthalmology	3
46261	Hemorrhoidectomy, inte	18	Ophthalmology	3
49507	Repair initial inguinal he	18	Ophthalmology	3
50590	Lithotripsy, extracorpore	18	Ophthalmology	3
52601	Transurethral electrosur	18	Ophthalmology	3
55500	Excision of hydrocele of	18	Ophthalmology	3
58260	Vaginal hysterectomy, fo	18	Ophthalmology	3
61793	Stereotactic radiosurger	18	Ophthalmology	3
62140	Cranioplasty for skull de	18	Ophthalmology	3
62361	Implantation or replacen	18	Ophthalmology	3
69620	Myringoplasty (surgery c	18	Ophthalmology	3
69930	Cochlear device implant	18	Ophthalmology	3
77777	Interstitial radiation sour	18	Ophthalmology	3
77778	Interstitial radiation sour	18	Ophthalmology	3
32480	Removal of lung, other t	18	Ophthalmology	3
45110	Proctectomy; complete,	18	Ophthalmology	2
25608	Open treatment of distal	18	Ophthalmology	2
15570	Formation of direct or tu	18	Ophthalmology	2
15750	Flap; neurovascular ped	18	Ophthalmology	2
15756	Free muscle or myocuta	18	Ophthalmology	2

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15832	Excision, excessive skin	18	Ophthalmology	2
15839	Excision, excessive skin	18	Ophthalmology	2
16035	Escharotomy; initial incision	18	Ophthalmology	2
19302	Mastectomy, partial (eg, lumpectomy)	18	Ophthalmology	2
20900	Bone graft, any donor area	18	Ophthalmology	2
21030	Excision of benign tumor	18	Ophthalmology	2
21246	Reconstruction of mandible	18	Ophthalmology	2
21260	Periorbital osteotomies for	18	Ophthalmology	2
21346	Open treatment of nasal	18	Ophthalmology	2
21400	Closed treatment of fracture	18	Ophthalmology	2
21750	Closure of median sternum	18	Ophthalmology	2
22222	Osteotomy of spine, including	18	Ophthalmology	2
22554	Arthrodesis, anterior intervertebral	18	Ophthalmology	2
23600	Closed treatment of proximal	18	Ophthalmology	2
24105	Excision, olecranon bursa	18	Ophthalmology	2
25000	Incision, extensor tendon	18	Ophthalmology	2
26123	Fasciectomy, partial palm	18	Ophthalmology	2
26536	Arthroplasty, interphalangeal	18	Ophthalmology	2
26542	Reconstruction, collateral ligament	18	Ophthalmology	2
26600	Closed treatment of metatarsal	18	Ophthalmology	2
26725	Closed treatment of phalanx	18	Ophthalmology	2
26951	Amputation, finger or thumb	18	Ophthalmology	2
27422	Reconstruction of dislocated	18	Ophthalmology	2
27591	Amputation, thigh, through	18	Ophthalmology	2
27786	Closed treatment of distal	18	Ophthalmology	2
27814	Open treatment of bimalleolar	18	Ophthalmology	2
27822	Open treatment of trimalleolar	18	Ophthalmology	2
27880	Amputation, leg, through	18	Ophthalmology	2
28820	Amputation, toe; metatarsal	18	Ophthalmology	2
29876	Arthroscopy, knee, surgical	18	Ophthalmology	2
30150	Rhinectomy; partial	18	Ophthalmology	2
30410	Rhinoplasty, primary; cosmetic	18	Ophthalmology	2
30465	Repair of nasal vestibule	18	Ophthalmology	2
30630	Repair nasal septal perforation	18	Ophthalmology	2
31070	Sinusotomy frontal; external	18	Ophthalmology	2
31588	Laryngoplasty, not otherwise	18	Ophthalmology	2
32100	Thoracotomy, major; with	18	Ophthalmology	2
32500	Removal of lung, other than	18	Ophthalmology	2
32650	Thoracoscopy, surgical; with	18	Ophthalmology	2
33120	Excision of intracardiac	18	Ophthalmology	2
33426	Valvuloplasty, mitral valve	18	Ophthalmology	2
33464	Valvuloplasty, tricuspid valve	18	Ophthalmology	2
33511	Coronary artery bypass, arterial	18	Ophthalmology	2
33684	Closure of single ventricle	18	Ophthalmology	2
37700	Ligation and division of ligament	18	Ophthalmology	2
38305	Drainage of lymph node	18	Ophthalmology	2
38542	Dissection, deep jugular	18	Ophthalmology	2
39502	Repair, paraesophageal	18	Ophthalmology	2
40510	Excision of lip; transverse	18	Ophthalmology	2
40530	Resection of lip, more than	18	Ophthalmology	2
40654	Repair lip, full thickness	18	Ophthalmology	2
40840	Vestibuloplasty; anterior	18	Ophthalmology	2

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42145	Palatopharyngoplasty (e	18	Ophthalmology	2
42410	Excision of parotid tumo	18	Ophthalmology	2
42815	Excision branchial cleft c	18	Ophthalmology	2
43610	Excision, local; ulcer or l	18	Ophthalmology	2
43632	Gastrectomy, partial, dis	18	Ophthalmology	2
44125	Enterectomy, resection c	18	Ophthalmology	2
44144	Colectomy, partial; with	18	Ophthalmology	2
44155	Colectomy, total, abdom	18	Ophthalmology	2
44206	Laparoscopy, surgical; c	18	Ophthalmology	2
44345	Revision of colostomy; c	18	Ophthalmology	2
45190	Destruction of rectal tum	18	Ophthalmology	2
46210	Cryptectomy; single	18	Ophthalmology	2
46258	Hemorrhoidectomy, inte	18	Ophthalmology	2
46285	Surgical treatment of an	18	Ophthalmology	2
46750	Sphincteroplasty, anal, f	18	Ophthalmology	2
46761	Sphincteroplasty, anal, f	18	Ophthalmology	2
49060	Drainage of retroperiton	18	Ophthalmology	2
49402	Removal of peritoneal fo	18	Ophthalmology	2
49900	Suture, secondary, of ab	18	Ophthalmology	2
51020	Cystotomy or cystostom	18	Ophthalmology	2
57260	Combined anteroposteri	18	Ophthalmology	2
58700	Salpingectomy, complet	18	Ophthalmology	2
60252	Thyroidectomy, total or s	18	Ophthalmology	2
60271	Thyroidectomy, includin	18	Ophthalmology	2
60280	Excision of thyroglossal	18	Ophthalmology	2
61334	Exploration of orbit (tran	18	Ophthalmology	2
61580	Craniofacial approach to	18	Ophthalmology	2
61583	Craniofacial approach to	18	Ophthalmology	2
61692	Surgery of intracranial a	18	Ophthalmology	2
63075	Discectomy, anterior, wi	18	Ophthalmology	2
63707	Repair of dural/cerebros	18	Ophthalmology	2
64734	Transection or avulsion	18	Ophthalmology	2
68500	Excision of lacrimal glan	18	Ophthalmology	2
68550	Excision of lacrimal glan	18	Ophthalmology	2
69641	Tympanoplasty with mas	18	Ophthalmology	2
69643	Tympanoplasty with mas	18	Ophthalmology	2
69662	Revision of stapedectom	18	Ophthalmology	2
69820	Fenestration semicircula	18	Ophthalmology	2
45550	Proctopexy (eg, for prol	18	Ophthalmology	1
25607	Open treatment of distal	18	Ophthalmology	1
32503	Resection of apical lung	18	Ophthalmology	1
15150	Tissue cultured epiderm	18	Ophthalmology	1
11451	Excision of skin and sub	18	Ophthalmology	1
11463	Excision of skin and sub	18	Ophthalmology	1
11471	Excision of skin and sub	18	Ophthalmology	1
15330	Acellular dermal allograf	18	Ophthalmology	1
15572	Formation of direct or tu	18	Ophthalmology	1
15650	Transfer, intermediate, c	18	Ophthalmology	1
15780	Dermabrasion; total face	18	Ophthalmology	1
15781	Dermabrasion; segment	18	Ophthalmology	1
15793	Chemical peel, nonfacia	18	Ophthalmology	1
15931	Excision, sacral pressur	18	Ophthalmology	1

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15933	Excision, sacral pressur	18	Ophthalmology	1
15956	Excision, trochanteric pr	18	Ophthalmology	1
19020	Mastotomy with explorat	18	Ophthalmology	1
19110	Nipple exploration, with	18	Ophthalmology	1
19272	Excision of chest wall tu	18	Ophthalmology	1
19300	Mastectomy for gynecor	18	Ophthalmology	1
19306	Mastectomy, radical, inc	18	Ophthalmology	1
20150	Excision of epiphyseal b	18	Ophthalmology	1
21188	Reconstruction midface,	18	Ophthalmology	1
21209	Osteoplasty, facial bone	18	Ophthalmology	1
21210	Graft, bone; nasal, maxi	18	Ophthalmology	1
21215	Graft, bone; mandible (in	18	Ophthalmology	1
21325	Open treatment of nasal	18	Ophthalmology	1
21335	Open treatment of nasal	18	Ophthalmology	1
21336	Open treatment of nasal	18	Ophthalmology	1
21344	Open treatment of comp	18	Ophthalmology	1
21347	Open treatment of naso	18	Ophthalmology	1
21461	Open treatment of mand	18	Ophthalmology	1
21462	Open treatment of mand	18	Ophthalmology	1
21800	Closed treatment of rib f	18	Ophthalmology	1
21935	Radical resection of tum	18	Ophthalmology	1
22900	Excision, abdominal wal	18	Ophthalmology	1
23000	Removal of subdeltoid c	18	Ophthalmology	1
23140	Excision or curettage of	18	Ophthalmology	1
23412	Repair of ruptured musc	18	Ophthalmology	1
23540	Closed treatment of acro	18	Ophthalmology	1
23665	Closed treatment of sho	18	Ophthalmology	1
23680	Open treatment of shoul	18	Ophthalmology	1
24075	Excision, tumor, soft tiss	18	Ophthalmology	1
24076	Excision, tumor, soft tiss	18	Ophthalmology	1
24102	Arthrotomy, elbow; with	18	Ophthalmology	1
24500	Closed treatment of hun	18	Ophthalmology	1
24620	Closed treatment of Mor	18	Ophthalmology	1
24650	Closed treatment of radi	18	Ophthalmology	1
24665	Open treatment of radia	18	Ophthalmology	1
24685	Open treatment of ulnar	18	Ophthalmology	1
25075	Excision, tumor, soft tiss	18	Ophthalmology	1
25076	Excision, tumor, soft tiss	18	Ophthalmology	1
25112	Excision of ganglion, wr	18	Ophthalmology	1
25116	Radical excision of burs	18	Ophthalmology	1
25130	Excision or curettage of	18	Ophthalmology	1
25151	Partial excision (crateriz	18	Ophthalmology	1
25210	Carpectomy; one bone	18	Ophthalmology	1
25350	Osteotomy, radius; dista	18	Ophthalmology	1
25525	Open treatment of radia	18	Ophthalmology	1
25526	Open treatment of radia	18	Ophthalmology	1
25530	Closed treatment of ulna	18	Ophthalmology	1
25606	Percutaneous skeletal fi	18	Ophthalmology	1
25650	Closed treatment of ulna	18	Ophthalmology	1
25680	Closed treatment of tran	18	Ophthalmology	1
25825	Arthrodesis, wrist; with a	18	Ophthalmology	1
25900	Amputation, forearm, th	18	Ophthalmology	1

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26045	Fasciotomy, palmar (eg,	18	Ophthalmology	1
26115	Excision, tumor or vascu	18	Ophthalmology	1
26121	Fasciectomy, palm only,	18	Ophthalmology	1
26140	Synovectomy, proximal	18	Ophthalmology	1
26340	Manipulation, finger joint	18	Ophthalmology	1
26455	Tenotomy, flexor, finger	18	Ophthalmology	1
26516	Capsulodesis, metacarp	18	Ophthalmology	1
26548	Repair and reconstructio	18	Ophthalmology	1
26770	Closed treatment of inte	18	Ophthalmology	1
27048	Excision, tumor, pelvis a	18	Ophthalmology	1
27049	Radical resection of tum	18	Ophthalmology	1
27266	Closed treatment of pos	18	Ophthalmology	1
27310	Arthrotomy, knee, with e	18	Ophthalmology	1
27327	Excision, tumor, thigh or	18	Ophthalmology	1
27328	Excision, tumor, thigh or	18	Ophthalmology	1
27329	Radical resection of tum	18	Ophthalmology	1
27614	Biopsy, soft tissue of leg	18	Ophthalmology	1
27618	Excision, tumor, leg or a	18	Ophthalmology	1
27619	Excision, tumor, leg or a	18	Ophthalmology	1
27641	Partial excision (crateriz	18	Ophthalmology	1
27650	Repair, primary, open or	18	Ophthalmology	1
27680	Tenolysis, flexor or exte	18	Ophthalmology	1
27690	Transfer or transplant of	18	Ophthalmology	1
27750	Closed treatment of tibia	18	Ophthalmology	1
27780	Closed treatment of prox	18	Ophthalmology	1
27829	Open treatment of distal	18	Ophthalmology	1
27842	Closed treatment of ank	18	Ophthalmology	1
27870	Arthrodesis, ankle, open	18	Ophthalmology	1
27881	Amputation, leg, through	18	Ophthalmology	1
28114	Ostectomy, complete ex	18	Ophthalmology	1
28192	Removal of foreign body	18	Ophthalmology	1
28232	Tenotomy, open, tendor	18	Ophthalmology	1
28234	Tenotomy, open, extens	18	Ophthalmology	1
28270	Capsulotomy; metatarsc	18	Ophthalmology	1
28289	Hallux rigidus correction	18	Ophthalmology	1
28415	Open treatment of calca	18	Ophthalmology	1
28485	Open treatment of meta	18	Ophthalmology	1
28615	Open treatment of tarso	18	Ophthalmology	1
28715	Arthrodesis; triple	18	Ophthalmology	1
28740	Arthrodesis, midtarsal o	18	Ophthalmology	1
28750	Arthrodesis, great toe; n	18	Ophthalmology	1
28805	Amputation, foot; transm	18	Ophthalmology	1
28810	Amputation, metatarsal,	18	Ophthalmology	1
28825	Amputation, toe; interph	18	Ophthalmology	1
29895	Arthroscopy, ankle (tibi	18	Ophthalmology	1
30125	Excision dermoid cyst, n	18	Ophthalmology	1
30400	Rhinoplasty, primary; lat	18	Ophthalmology	1
30420	Rhinoplasty, primary; inc	18	Ophthalmology	1
30430	Rhinoplasty, secondary;	18	Ophthalmology	1
30580	Repair fistula; oromaxilla	18	Ophthalmology	1
30600	Repair fistula; oronasal	18	Ophthalmology	1
31230	Maxillectomy; with orbita	18	Ophthalmology	1

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31320	Laryngotomy (thyrotomy)	18	Ophthalmology	1
31375	Partial laryngectomy (he	18	Ophthalmology	1
31400	Arytenoidectomy or aryte	18	Ophthalmology	1
31614	Tracheostoma revision;	18	Ophthalmology	1
31820	Surgical closure tracheo	18	Ophthalmology	1
32035	Thoracostomy; with rib r	18	Ophthalmology	1
32151	Thoracotomy, major; wit	18	Ophthalmology	1
32320	Decortication and pariet	18	Ophthalmology	1
33025	Creation of pericardial w	18	Ophthalmology	1
33212	Insertion or replacement	18	Ophthalmology	1
33218	Repair of single transver	18	Ophthalmology	1
33222	Revision or relocation of	18	Ophthalmology	1
33534	Coronary artery bypass,	18	Ophthalmology	1
33610	Repair of complex cardi	18	Ophthalmology	1
33641	Repair atrial septal defe	18	Ophthalmology	1
33860	Ascending aorta graft, w	18	Ophthalmology	1
35820	Exploration for postoper	18	Ophthalmology	1
36820	Arteriovenous anastomoc	18	Ophthalmology	1
37145	Venous anastomosis, op	18	Ophthalmology	1
37565	Ligation, internal jugular	18	Ophthalmology	1
37760	Ligation of perforator ve	18	Ophthalmology	1
38564	Limited lymphadenector	18	Ophthalmology	1
38740	Axillary lymphadenector	18	Ophthalmology	1
38760	Inguinofemoral lymphad	18	Ophthalmology	1
39010	Mediastinotomy with exp	18	Ophthalmology	1
39220	Excision of mediastinal t	18	Ophthalmology	1
40500	Vermilionectomy (lip sha	18	Ophthalmology	1
41135	Glossectomy; partial, wi	18	Ophthalmology	1
41155	Glossectomy; composite	18	Ophthalmology	1
42235	Repair of anterior palate	18	Ophthalmology	1
42426	Excision of parotid tumo	18	Ophthalmology	1
42831	Adenoidectomy, primary	18	Ophthalmology	1
42890	Limited pharyngectomy	18	Ophthalmology	1
43280	Laparoscopy, surgical, e	18	Ophthalmology	1
43621	Gastrectomy, total; with	18	Ophthalmology	1
43644	Laparoscopy, surgical, c	18	Ophthalmology	1
43800	Pyloroplasty	18	Ophthalmology	1
43840	Gastrorrhaphy, suture o	18	Ophthalmology	1
43870	Closure of gastrostomy,	18	Ophthalmology	1
44021	Enterotomy, small intest	18	Ophthalmology	1
44110	Excision of one or more	18	Ophthalmology	1
44146	Colectomy, partial; with	18	Ophthalmology	1
44180	Laparoscopy, surgical, e	18	Ophthalmology	1
44202	Laparoscopy, surgical; e	18	Ophthalmology	1
44212	Laparoscopy, surgical; c	18	Ophthalmology	1
44312	Revision of ileostomy; si	18	Ophthalmology	1
44340	Revision of colostomy; s	18	Ophthalmology	1
44650	Closure of enteroenteric	18	Ophthalmology	1
44700	Exclusion of small intest	18	Ophthalmology	1
44800	Excision of Meckel's div	18	Ophthalmology	1
45111	Proctectomy; partial res	18	Ophthalmology	1
45135	Excision of rectal procid	18	Ophthalmology	1

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45500	Proctoplasty; for stenosis	18	Ophthalmology	1
45505	Proctoplasty; for prolapse	18	Ophthalmology	1
46270	Surgical treatment of anal	18	Ophthalmology	1
46946	Ligation of internal hemorrhoids	18	Ophthalmology	1
47120	Hepatectomy, resection	18	Ophthalmology	1
47610	Cholecystectomy with exploration	18	Ophthalmology	1
47700	Exploration for congenital biliary	18	Ophthalmology	1
49002	Reopening of recent laparotomy	18	Ophthalmology	1
49521	Repair recurrent inguinal hernia	18	Ophthalmology	1
49566	Repair recurrent incisional hernia	18	Ophthalmology	1
49572	Repair epigastric hernia	18	Ophthalmology	1
49651	Laparoscopy, surgical; retroperitoneal	18	Ophthalmology	1
50230	Nephrectomy, including donor nephrectomy	18	Ophthalmology	1
50240	Nephrectomy, partial	18	Ophthalmology	1
50722	Ureterolysis for ovarian tumor	18	Ophthalmology	1
50810	Ureterosigmoidostomy, with or without	18	Ophthalmology	1
51590	Cystectomy, complete, with or without	18	Ophthalmology	1
51900	Closure of vesicovaginal fistula	18	Ophthalmology	1
52500	Transurethral resection	18	Ophthalmology	1
53510	Urethrorrhaphy, suture closure	18	Ophthalmology	1
55520	Excision of lesion of spermatic cord	18	Ophthalmology	1
55845	Prostatectomy, retropubic	18	Ophthalmology	1
57106	Vaginectomy, partial removal	18	Ophthalmology	1
57107	Vaginectomy, partial removal	18	Ophthalmology	1
57240	Anterior colporrhaphy, repair	18	Ophthalmology	1
57265	Combined anteroposterior repair	18	Ophthalmology	1
57282	Colpopexy, vaginal; external	18	Ophthalmology	1
57305	Closure of rectovaginal fistula	18	Ophthalmology	1
58150	Total abdominal hysterectomy	18	Ophthalmology	1
58952	Resection (initial) of ovaries	18	Ophthalmology	1
58956	Bilateral salpingo-oophorectomy	18	Ophthalmology	1
60270	Thyroidectomy, including	18	Ophthalmology	1
60281	Excision of thyroglossal cyst	18	Ophthalmology	1
60505	Parathyroidectomy or exploration	18	Ophthalmology	1
60650	Laparoscopy, surgical, with or without	18	Ophthalmology	1
61108	Twist drill hole(s) for skull	18	Ophthalmology	1
61584	Orbitocranial approach to	18	Ophthalmology	1
61590	Infratemporal pre-auricular	18	Ophthalmology	1
61605	Resection or excision of	18	Ophthalmology	1
61618	Secondary repair of dura	18	Ophthalmology	1
61619	Secondary repair of dura	18	Ophthalmology	1
61697	Surgery of complex intracranial	18	Ophthalmology	1
61700	Surgery of simple intracranial	18	Ophthalmology	1
61880	Revision or removal of intracranial	18	Ophthalmology	1
62000	Elevation of depressed skull	18	Ophthalmology	1
62100	Craniotomy for repair of	18	Ophthalmology	1
62142	Removal of bone flap or	18	Ophthalmology	1
64719	Neuroplasty and/or transfer	18	Ophthalmology	1
64782	Excision of neuroma; head	18	Ophthalmology	1
64792	Excision of neurofibroma; head	18	Ophthalmology	1
69150	Radical excision external	18	Ophthalmology	1
69310	Reconstruction of external	18	Ophthalmology	1

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69440	Middle ear exploration th	18	Ophthalmology	1	
69535	Resection temporal bon	18	Ophthalmology	1	
69601	Revision mastoidectomy	18	Ophthalmology	1	
69637	Tympanoplasty with ant	18	Ophthalmology	1	
69642	Tympanoplasty with mas	18	Ophthalmology	1	
69660	Stapedectomy or staped	18	Ophthalmology	1	
69905	Labyrinthectomy; transc	18	Ophthalmology	1	
45402	Laparoscopy, surgical; p	18	Ophthalmology	1	
50250	Ablation, open, one or m	18	Ophthalmology	1	
49255	Omentectomy, epiploect	18	Ophthalmology	1	
15830	Excision, excessive skin	18	Ophthalmology	1	
33254	Operative tissue ablatio	18	Ophthalmology	0	
58957	Resection (tumor debulk	18	Ophthalmology	0	
33256	Operative tissue ablatio	18	Ophthalmology	0	
35883	Revision, femoral anaste	18	Ophthalmology	0	
35884	Revision, femoral anaste	18	Ophthalmology	0	
33255	Operative tissue ablatio	18	Ophthalmology	0	
15110	Epidermal autograft, tru	18	Ophthalmology	0	
15130	Dermal autograft, trunk,	18	Ophthalmology	0	
32504	Resection of apical lung	18	Ophthalmology	0	
58958	Resection (tumor debulk	18	Ophthalmology	0	
33265	Endoscopy, surgical; op	18	Ophthalmology	0	
33266	Endoscopy, surgical; op	18	Ophthalmology	0	
64910	Nerve repair; with synthe	18	Ophthalmology	0	
64911	Nerve repair; with autog	18	Ophthalmology	0	3,397,970
27447	Arthroplasty, knee, cond	20	Orthopedic Surgery	278,516	
27130	Arthroplasty, acetabular	20	Orthopedic Surgery	116,116	
27236	Open treatment of femo	20	Orthopedic Surgery	78,606	
29881	Arthroscopy, knee, surg	20	Orthopedic Surgery	77,010	
64721	Neuroplasty and/or trans	20	Orthopedic Surgery	74,680	
29826	Arthroscopy, shoulder, s	20	Orthopedic Surgery	61,247	
27245	Treatment of intertrocha	20	Orthopedic Surgery	56,177	
29880	Arthroscopy, knee, surg	20	Orthopedic Surgery	55,530	
27244	Treatment of intertrocha	20	Orthopedic Surgery	42,343	
26055	Tendon sheath incision	20	Orthopedic Surgery	41,085	
20680	Removal of implant; dee	20	Orthopedic Surgery	37,334	
63047	Laminectomy, facetecto	20	Orthopedic Surgery	37,025	
25600	Closed treatment of dist	20	Orthopedic Surgery	36,641	
22612	Arthrodesis, posterior or	20	Orthopedic Surgery	33,277	
23600	Closed treatment of prox	20	Orthopedic Surgery	30,825	
29827	Arthroscopy, shoulder, s	20	Orthopedic Surgery	29,664	
29824	Arthroscopy, shoulder, s	20	Orthopedic Surgery	27,548	
23412	Repair of ruptured musc	20	Orthopedic Surgery	26,494	
25605	Closed treatment of dist	20	Orthopedic Surgery	23,749	
28470	Closed treatment of met	20	Orthopedic Surgery	23,204	
27786	Closed treatment of dist	20	Orthopedic Surgery	20,238	
29823	Arthroscopy, shoulder, s	20	Orthopedic Surgery	18,700	
23120	Claviclectomy; partial	20	Orthopedic Surgery	17,652	
23420	Reconstruction of comp	20	Orthopedic Surgery	17,108	
27235	Percutaneous skeletal fi	20	Orthopedic Surgery	17,090	
27193	Closed treatment of pelv	20	Orthopedic Surgery	15,976	
28285	Correction, hammertoe	20	Orthopedic Surgery	14,443	

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23472	Arthroplasty, glenohume	20	Orthopedic Surgery	14,138
27487	Revision of total knee ar	20	Orthopedic Surgery	14,076
27125	Hemiarthroplasty, hip, p	20	Orthopedic Surgery	13,939
29876	Arthroscopy, knee, surg	20	Orthopedic Surgery	13,930
27134	Revision of total hip arth	20	Orthopedic Surgery	12,241
27446	Arthroplasty, knee, conc	20	Orthopedic Surgery	11,725
63030	Laminotomy (hemilamin	20	Orthopedic Surgery	11,673
29822	Arthroscopy, shoulder, s	20	Orthopedic Surgery	11,613
26600	Closed treatment of met	20	Orthopedic Surgery	11,464
29879	Arthroscopy, knee, surg	20	Orthopedic Surgery	11,421
27814	Open treatment of bimal	20	Orthopedic Surgery	11,282
25606	Percutaneous skeletal fi	20	Orthopedic Surgery	10,795
23470	Arthroplasty, glenohume	20	Orthopedic Surgery	10,174
29848	Endoscopy, wrist, surgic	20	Orthopedic Surgery	10,151
22630	Arthrodesis, posterior in	20	Orthopedic Surgery	9,561
27266	Closed treatment of pos	20	Orthopedic Surgery	9,326
25609	Open treatment of distal	20	Orthopedic Surgery	8,768
27486	Revision of total knee ar	20	Orthopedic Surgery	8,468
63042	Laminotomy (hemilamin	20	Orthopedic Surgery	8,319
22554	Arthrodesis, anterior inte	20	Orthopedic Surgery	8,255
27506	Open treatment of femo	20	Orthopedic Surgery	8,111
22310	Closed treatment of vert	20	Orthopedic Surgery	8,082
64718	Neuroplasty and/or trans	20	Orthopedic Surgery	7,674
25447	Arthroplasty, interpositio	20	Orthopedic Surgery	7,302
26160	Excision of lesion of ten	20	Orthopedic Surgery	7,130
23500	Closed treatment of clav	20	Orthopedic Surgery	7,129
29875	Arthroscopy, knee, surg	20	Orthopedic Surgery	7,090
23615	Open treatment of proxim	20	Orthopedic Surgery	6,752
27530	Closed treatment of tibia	20	Orthopedic Surgery	6,743
27520	Closed treatment of pate	20	Orthopedic Surgery	6,708
23130	Acromioplasty or acromi	20	Orthopedic Surgery	6,606
26720	Closed treatment of pha	20	Orthopedic Surgery	6,347
24650	Closed treatment of radi	20	Orthopedic Surgery	6,333
29877	Arthroscopy, knee, surg	20	Orthopedic Surgery	6,284
63075	Discectomy, anterior, wi	20	Orthopedic Surgery	6,140
27132	Conversion of previous l	20	Orthopedic Surgery	5,933
23430	Tenodesis of long tendo	20	Orthopedic Surgery	5,751
27137	Revision of total hip arth	20	Orthopedic Surgery	5,744
23410	Repair of ruptured musc	20	Orthopedic Surgery	5,640
27822	Open treatment of trima	20	Orthopedic Surgery	5,469
24685	Open treatment of ulnar	20	Orthopedic Surgery	5,445
26123	Fasciectomy, partial pal	20	Orthopedic Surgery	5,331
28270	Capsulotomy; metatarsc	20	Orthopedic Surgery	5,090
27524	Open treatment of patell	20	Orthopedic Surgery	5,077
27792	Open treatment of distal	20	Orthopedic Surgery	4,830
25608	Open treatment of distal	20	Orthopedic Surgery	4,782
24500	Closed treatment of hun	20	Orthopedic Surgery	4,710
27488	Removal of prosthesis, i	20	Orthopedic Surgery	4,674
27511	Open treatment of femo	20	Orthopedic Surgery	4,488
27301	Incision and drainage, d	20	Orthopedic Surgery	4,425
27507	Open treatment of femo	20	Orthopedic Surgery	4,353
20694	Removal, under anesthe	20	Orthopedic Surgery	4,331

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24105	Excision, olecranon bursa	20	Orthopedic Surgery	4,275
27880	Amputation, leg, through	20	Orthopedic Surgery	4,244
25000	Incision, extensor tendon	20	Orthopedic Surgery	4,086
25310	Tendon transplantation	20	Orthopedic Surgery	4,064
27808	Closed treatment of bimalleolar	20	Orthopedic Surgery	3,965
20902	Bone graft, any donor area	20	Orthopedic Surgery	3,939
20926	Tissue grafts, other (eg, skin)	20	Orthopedic Surgery	3,868
22852	Removal of posterior segment	20	Orthopedic Surgery	3,746
25111	Excision of ganglion, wrist	20	Orthopedic Surgery	3,737
29807	Arthroscopy, shoulder, surgical	20	Orthopedic Surgery	3,668
23616	Open treatment of proximal humerus	20	Orthopedic Surgery	3,596
27310	Arthrotomy, knee, with excision	20	Orthopedic Surgery	3,555
27759	Treatment of tibial shaft fracture	20	Orthopedic Surgery	3,527
24516	Treatment of humeral shaft fracture	20	Orthopedic Surgery	3,469
28820	Amputation, toe; metatarsal	20	Orthopedic Surgery	3,450
26951	Amputation, finger or thumb	20	Orthopedic Surgery	3,433
26990	Incision and drainage, pyogenic	20	Orthopedic Surgery	3,429
23620	Closed treatment of greater trochanter	20	Orthopedic Surgery	3,425
28510	Closed treatment of fracture of distal radius	20	Orthopedic Surgery	3,417
26145	Synovectomy, tendon sheath	20	Orthopedic Surgery	3,404
27750	Closed treatment of tibial shaft fracture	20	Orthopedic Surgery	3,388
20690	Application of a uniplanar external fixator	20	Orthopedic Surgery	3,298
26116	Excision, tumor or vascular malformation	20	Orthopedic Surgery	3,272
27138	Revision of total hip arthroplasty	20	Orthopedic Surgery	3,184
29873	Arthroscopy, knee, surgical	20	Orthopedic Surgery	3,088
27590	Amputation, thigh, through femur	20	Orthopedic Surgery	3,072
13160	Secondary closure of surgical wound	20	Orthopedic Surgery	2,985
22558	Arthrodesis, anterior interosseous	20	Orthopedic Surgery	2,964
27780	Closed treatment of proximal humerus	20	Orthopedic Surgery	2,923
26115	Excision, tumor or vascular malformation	20	Orthopedic Surgery	2,891
22830	Exploration of spinal fusion	20	Orthopedic Surgery	2,827
28750	Arthrodesis, great toe; metatarsal	20	Orthopedic Surgery	2,790
28296	Correction, hallux valgus	20	Orthopedic Surgery	2,745
27870	Arthrodesis, ankle, open	20	Orthopedic Surgery	2,744
27220	Closed treatment of acetabulum	20	Orthopedic Surgery	2,736
27513	Open treatment of femoral shaft fracture	20	Orthopedic Surgery	2,648
27385	Suture of quadriceps or patellar tendon	20	Orthopedic Surgery	2,620
27246	Closed treatment of greater trochanter	20	Orthopedic Surgery	2,616
27535	Open treatment of tibial shaft fracture	20	Orthopedic Surgery	2,613
26750	Closed treatment of distal radius	20	Orthopedic Surgery	2,568
28308	Osteotomy, with or without fixation	20	Orthopedic Surgery	2,561
29871	Arthroscopy, knee, surgical	20	Orthopedic Surgery	2,560
27760	Closed treatment of medial epicondyle	20	Orthopedic Surgery	2,528
28400	Closed treatment of calcaneus	20	Orthopedic Surgery	2,455
21800	Closed treatment of rib fracture	20	Orthopedic Surgery	2,438
25607	Open treatment of distal radius	20	Orthopedic Surgery	2,391
23605	Closed treatment of proximal humerus	20	Orthopedic Surgery	2,369
23655	Closed treatment of shoulder	20	Orthopedic Surgery	2,352
22305	Closed treatment of vertebra	20	Orthopedic Surgery	2,338
22600	Arthrodesis, posterior interosseous	20	Orthopedic Surgery	2,321
25115	Radical excision of bursa	20	Orthopedic Surgery	2,310
27230	Closed treatment of femoral shaft fracture	20	Orthopedic Surgery	2,249

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28122	Partial excision (crateriz	20	Orthopedic Surgery	2,238
64719	Neuroplasty and/or trans	20	Orthopedic Surgery	2,149
24515	Open treatment of hume	20	Orthopedic Surgery	2,134
27091	Removal of hip prosthes	20	Orthopedic Surgery	2,130
26860	Arthrodesis, interphalan	20	Orthopedic Surgery	2,111
27691	Transfer or transplant of	20	Orthopedic Surgery	2,065
27603	Incision and drainage, le	20	Orthopedic Surgery	2,034
27829	Open treatment of distal	20	Orthopedic Surgery	2,029
63081	Vertebral corpectomy (v	20	Orthopedic Surgery	1,998
25530	Closed treatment of ulna	20	Orthopedic Surgery	1,962
26725	Closed treatment of pha	20	Orthopedic Surgery	1,959
25622	Closed treatment of carp	20	Orthopedic Surgery	1,956
28292	Correction, hallux valgus	20	Orthopedic Surgery	1,956
63056	Transpedicular approach	20	Orthopedic Surgery	1,950
27752	Closed treatment of tibia	20	Orthopedic Surgery	1,903
28490	Closed treatment of frac	20	Orthopedic Surgery	1,892
28810	Amputation, metatarsal,	20	Orthopedic Surgery	1,892
28725	Arthrodesis; subtalar	20	Orthopedic Surgery	1,862
29870	Arthroscopy, knee, diagn	20	Orthopedic Surgery	1,842
27425	Lateral retinacular relea	20	Orthopedic Surgery	1,839
27238	Closed treatment of inte	20	Orthopedic Surgery	1,832
27758	Open treatment of tibial	20	Orthopedic Surgery	1,830
23570	Closed treatment of sca	20	Orthopedic Surgery	1,777
28232	Tenotomy, open, tendor	20	Orthopedic Surgery	1,753
28825	Amputation, toe; interph	20	Orthopedic Surgery	1,650
20900	Bone graft, any donor ar	20	Orthopedic Surgery	1,633
26531	Arthroplasty, metacarp	20	Orthopedic Surgery	1,631
24670	Closed treatment of ulna	20	Orthopedic Surgery	1,614
26480	Transfer or transplant of	20	Orthopedic Surgery	1,600
22610	Arthrodesis, posterior or	20	Orthopedic Surgery	1,597
24530	Closed treatment of sup	20	Orthopedic Surgery	1,577
26605	Closed treatment of met	20	Orthopedic Surgery	1,576
27536	Open treatment of tibial	20	Orthopedic Surgery	1,561
28715	Arthrodesis; triple	20	Orthopedic Surgery	1,536
27248	Open treatment of great	20	Orthopedic Surgery	1,532
27030	Arthrotomy, hip, with dra	20	Orthopedic Surgery	1,504
63045	Laminectomy, facetecto	20	Orthopedic Surgery	1,495
27265	Closed treatment of pos	20	Orthopedic Surgery	1,489
27810	Closed treatment of bim	20	Orthopedic Surgery	1,483
27514	Open treatment of femo	20	Orthopedic Surgery	1,474
27685	Lengthening or shortenin	20	Orthopedic Surgery	1,466
29825	Arthroscopy, shoulder, s	20	Orthopedic Surgery	1,460
23440	Resection or transplanta	20	Orthopedic Surgery	1,448
27766	Open treatment of medi	20	Orthopedic Surgery	1,430
27687	Gastrocnemius recessio	20	Orthopedic Surgery	1,428
28300	Osteotomy; calcaneus (c	20	Orthopedic Surgery	1,424
27508	Closed treatment of fem	20	Orthopedic Surgery	1,413
22849	Reinsertion of spinal fix	20	Orthopedic Surgery	1,399
26121	Fasciectomy, palm only,	20	Orthopedic Surgery	1,386
27501	Closed treatment of sup	20	Orthopedic Surgery	1,377
29888	Arthroscopically aided a	20	Orthopedic Surgery	1,376
28080	Excision, interdigital (Mc	20	Orthopedic Surgery	1,356

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27252	Closed treatment of hip	20	Orthopedic Surgery	1,352
28450	Treatment of tarsal bone	20	Orthopedic Surgery	1,337
25630	Closed treatment of carp	20	Orthopedic Surgery	1,333
28112	Ostectomy, complete ex	20	Orthopedic Surgery	1,289
27650	Repair, primary, open or	20	Orthopedic Surgery	1,280
28120	Partial excision (crateriz	20	Orthopedic Surgery	1,272
23405	Tenotomy, shoulder are	20	Orthopedic Surgery	1,260
24505	Closed treatment of hum	20	Orthopedic Surgery	1,256
27340	Excision, prepatellar bur	20	Orthopedic Surgery	1,248
23415	Coracoacromial ligamer	20	Orthopedic Surgery	1,238
22850	Removal of posterior no	20	Orthopedic Surgery	1,233
26418	Repair, extensor tendon	20	Orthopedic Surgery	1,216
27345	Excision of synovial cyst	20	Orthopedic Surgery	1,203
22214	Osteotomy of spine, pos	20	Orthopedic Surgery	1,201
26727	Percutaneous skeletal fi	20	Orthopedic Surgery	1,199
20692	Application of a multipla	20	Orthopedic Surgery	1,198
28234	Tenotomy, open, extens	20	Orthopedic Surgery	1,198
22102	Partial excision of poste	20	Orthopedic Surgery	1,182
27437	Arthroplasty, patella; wit	20	Orthopedic Surgery	1,175
29821	Arthroscopy, shoulder, s	20	Orthopedic Surgery	1,167
27335	Arthrotomy, with synove	20	Orthopedic Surgery	1,152
24545	Open treatment of hume	20	Orthopedic Surgery	1,129
64708	Neuroplasty, major perip	20	Orthopedic Surgery	1,128
29884	Arthroscopy, knee, surg	20	Orthopedic Surgery	1,121
27788	Closed treatment of dist	20	Orthopedic Surgery	1,117
26340	Manipulation, finger join	20	Orthopedic Surgery	1,116
28289	Hallux rigidus correction	20	Orthopedic Surgery	1,097
26020	Drainage of tendon shea	20	Orthopedic Surgery	1,084
25290	Tenotomy, open, flexor	20	Orthopedic Surgery	1,083
28288	Ostectomy, partial, exos	20	Orthopedic Surgery	1,074
28740	Arthrodesis, midtarsal o	20	Orthopedic Surgery	1,058
27823	Open treatment of trima	20	Orthopedic Surgery	1,046
28730	Arthrodesis, midtarsal o	20	Orthopedic Surgery	1,046
25575	Open treatment of radia	20	Orthopedic Surgery	1,041
27334	Arthrotomy, with synove	20	Orthopedic Surgery	1,040
24546	Open treatment of hume	20	Orthopedic Surgery	1,030
29805	Arthroscopy, shoulder, c	20	Orthopedic Surgery	1,030
26765	Open treatment of distal	20	Orthopedic Surgery	1,028
26735	Open treatment of phala	20	Orthopedic Surgery	1,026
27640	Partial excision (crateriz	20	Orthopedic Surgery	1,011
25545	Open treatment of ulnar	20	Orthopedic Surgery	1,003
27380	Suture of infrapatellar te	20	Orthopedic Surgery	1,001
14040	Adjacent tissue transfer	20	Orthopedic Surgery	998
29806	Arthroscopy, shoulder, s	20	Orthopedic Surgery	997
26615	Open treatment of meta	20	Orthopedic Surgery	984
24363	Arthroplasty, elbow; with	20	Orthopedic Surgery	983
28805	Amputation, foot; trans	20	Orthopedic Surgery	978
27062	Excision; trochanteric bu	20	Orthopedic Surgery	974
23650	Closed treatment of sho	20	Orthopedic Surgery	969
29819	Arthroscopy, shoulder, s	20	Orthopedic Surgery	966
28290	Correction, hallux valgus	20	Orthopedic Surgery	946
27828	Open treatment of fractu	20	Orthopedic Surgery	927

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28485	Open treatment of meta	20	Orthopedic Surgery	924
29820	Arthroscopy, shoulder, s	20	Orthopedic Surgery	923
25560	Closed treatment of radi	20	Orthopedic Surgery	909
27690	Transfer or transplant of	20	Orthopedic Surgery	903
25500	Closed treatment of radi	20	Orthopedic Surgery	893
28124	Partial excision (crateriz	20	Orthopedic Surgery	893
25240	Excision distal ulna parti	20	Orthopedic Surgery	890
23331	Removal of foreign body	20	Orthopedic Surgery	889
29898	Arthroscopy, ankle (tibi	20	Orthopedic Surgery	877
28306	Osteotomy, with or witho	20	Orthopedic Surgery	861
26080	Arthrotomy, with explor	20	Orthopedic Surgery	858
27818	Closed treatment of trim	20	Orthopedic Surgery	856
25118	Synovectomy, extensor	20	Orthopedic Surgery	853
27331	Arthrotomy, knee; includ	20	Orthopedic Surgery	851
63090	Vertebral corpectomy (v	20	Orthopedic Surgery	848
25028	Incision and drainage, fo	20	Orthopedic Surgery	844
63046	Laminectomy, facetecto	20	Orthopedic Surgery	837
22325	Open treatment and/or r	20	Orthopedic Surgery	832
25295	Tenolysis, flexor or exte	20	Orthopedic Surgery	832
26410	Repair, extensor tendon	20	Orthopedic Surgery	818
27360	Partial excision (crateriz	20	Orthopedic Surgery	816
27090	Removal of hip prosthes	20	Orthopedic Surgery	811
28090	Excision of lesion, tend	20	Orthopedic Surgery	809
28005	Incision, bone cortex (eg	20	Orthopedic Surgery	802
27328	Excision, tumor, thigh or	20	Orthopedic Surgery	799
27303	Incision, deep, with oper	20	Orthopedic Surgery	785
29874	Arthroscopy, knee, surg	20	Orthopedic Surgery	783
24342	Reinsertion of ruptured l	20	Orthopedic Surgery	782
25076	Excision, tumor, soft tiss	20	Orthopedic Surgery	779
26536	Arthroplasty, interphalar	20	Orthopedic Surgery	776
25650	Closed treatment of ulna	20	Orthopedic Surgery	773
25565	Closed treatment of radi	20	Orthopedic Surgery	769
26045	Fasciotomy, palmar (eg,	20	Orthopedic Surgery	767
26608	Percutaneous skeletal fi	20	Orthopedic Surgery	767
27500	Closed treatment of fem	20	Orthopedic Surgery	761
23630	Open treatment of great	20	Orthopedic Surgery	760
28430	Closed treatment of talu	20	Orthopedic Surgery	758
28615	Open treatment of tarso	20	Orthopedic Surgery	755
27827	Open treatment of fractu	20	Orthopedic Surgery	753
22015	Incision and drainage, o	20	Orthopedic Surgery	751
29882	Arthroscopy, knee, surg	20	Orthopedic Surgery	750
26952	Amputation, finger or thu	20	Orthopedic Surgery	737
28114	Ostectomy, complete ex	20	Orthopedic Surgery	736
28415	Open treatment of calca	20	Orthopedic Surgery	730
27438	Arthroplasty, patella; wit	20	Orthopedic Surgery	723
26437	Realignment of extenso	20	Orthopedic Surgery	719
26440	Tenolysis, flexor tendon	20	Orthopedic Surgery	718
27422	Reconstruction of disloc	20	Orthopedic Surgery	717
28313	Reconstruction, angular	20	Orthopedic Surgery	713
25075	Excision, tumor, soft tiss	20	Orthopedic Surgery	698
22855	Removal of anterior inst	20	Orthopedic Surgery	697
28010	Tenotomy, percutaneou	20	Orthopedic Surgery	696

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27503	Closed treatment of sup	20	Orthopedic Surgery	694
27122	Acetabuloplasty; resecti	20	Orthopedic Surgery	690
26740	Closed treatment of artic	20	Orthopedic Surgery	688
26210	Excision or curettage of	20	Orthopedic Surgery	682
27350	Patellectomy or hemipat	20	Orthopedic Surgery	682
63267	Laminectomy for excisic	20	Orthopedic Surgery	680
23076	Excision, soft tissue tum	20	Orthopedic Surgery	674
23332	Removal of foreign body	20	Orthopedic Surgery	671
23040	Arthrotomy, glenohumer	20	Orthopedic Surgery	669
25280	Lengthening or shorteni	20	Orthopedic Surgery	667
25116	Radical excision of burs	20	Orthopedic Surgery	665
27654	Repair, secondary, Achi	20	Orthopedic Surgery	665
63707	Repair of dural/cerebro	20	Orthopedic Surgery	662
22802	Arthrodesis, posterior, fo	20	Orthopedic Surgery	660
15100	Split-thickness autograft	20	Orthopedic Surgery	658
28230	Tenotomy, open, tendor	20	Orthopedic Surgery	658
25210	Carpectomy; one bone	20	Orthopedic Surgery	655
28475	Closed treatment of met	20	Orthopedic Surgery	652
27470	Repair, nonunion or mal	20	Orthopedic Surgery	639
63012	Laminectomy with remo	20	Orthopedic Surgery	638
24076	Excision, tumor, soft tiss	20	Orthopedic Surgery	636
27495	Prophylactic treatment (	20	Orthopedic Surgery	635
24605	Treatment of closed elbe	20	Orthopedic Surgery	631
26850	Arthrodesis, metacarpop	20	Orthopedic Surgery	629
27430	Quadricepsplasty (eg, B	20	Orthopedic Surgery	629
23515	Open treatment of clavic	20	Orthopedic Surgery	626
63685	Insertion or replacement	20	Orthopedic Surgery	623
23665	Closed treatment of sho	20	Orthopedic Surgery	619
28118	Ostectomy, calcaneus;	20	Orthopedic Surgery	616
29846	Arthroscopy, wrist, surgi	20	Orthopedic Surgery	614
27824	Closed treatment of frac	20	Orthopedic Surgery	607
24075	Excision, tumor, soft tiss	20	Orthopedic Surgery	601
24430	Repair of nonunion or m	20	Orthopedic Surgery	601
28045	Excision, tumor, foot; de	20	Orthopedic Surgery	594
26525	Capsulectomy or capsul	20	Orthopedic Surgery	589
27816	Closed treatment of trim	20	Orthopedic Surgery	588
63005	Laminectomy with explo	20	Orthopedic Surgery	583
24666	Open treatment of radia	20	Orthopedic Surgery	579
27881	Amputation, leg, through	20	Orthopedic Surgery	566
28299	Correction, hallux valgus	20	Orthopedic Surgery	566
27187	Prophylactic treatment (	20	Orthopedic Surgery	564
28043	Excision, tumor, foot; su	20	Orthopedic Surgery	559
27228	Open treatment of aceta	20	Orthopedic Surgery	555
27886	Amputation, leg, through	20	Orthopedic Surgery	555
28153	Resection, condyle(s), d	20	Orthopedic Surgery	555
24665	Open treatment of radia	20	Orthopedic Surgery	554
63655	Laminectomy for implan	20	Orthopedic Surgery	553
27472	Repair, nonunion or mal	20	Orthopedic Surgery	552
24341	Repair, tendon or muscl	20	Orthopedic Surgery	549
25020	Decompression fascioto	20	Orthopedic Surgery	546
28160	Hemiphalangectomy or	20	Orthopedic Surgery	535
25515	Open treatment of radia	20	Orthopedic Surgery	534

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26540	Repair of collateral ligam	20	Orthopedic Surgery	534
28298	Correction, hallux valgus	20	Orthopedic Surgery	529
28755	Arthrodesis, great toe; in	20	Orthopedic Surgery	528
20693	Adjustment or revision of	20	Orthopedic Surgery	525
20924	Tendon graft, from a dis	20	Orthopedic Surgery	524
28110	Ostectomy, partial excis	20	Orthopedic Surgery	524
26992	Incision, bone cortex, pe	20	Orthopedic Surgery	519
27610	Arthrotomy, ankle, includ	20	Orthopedic Surgery	519
63020	Laminotomy (hemilamin	20	Orthopedic Surgery	518
24579	Open treatment of humer	20	Orthopedic Surgery	517
63709	Repair of dural/cerebros	20	Orthopedic Surgery	516
27329	Radical resection of tum	20	Orthopedic Surgery	515
27698	Repair, secondary, disru	20	Orthopedic Surgery	511
22800	Arthrodesis, posterior, fo	20	Orthopedic Surgery	505
26356	Repair or advancement,	20	Orthopedic Surgery	505
27720	Repair of nonunion or m	20	Orthopedic Surgery	501
27580	Arthrodesis, knee, any te	20	Orthopedic Surgery	499
27630	Excision of lesion of ten	20	Orthopedic Surgery	496
28035	Release, tarsal tunnel (p	20	Orthopedic Surgery	492
64704	Neuroplasty; nerve of ha	20	Orthopedic Surgery	489
27680	Tenolysis, flexor or exte	20	Orthopedic Surgery	487
25400	Repair of nonunion or m	20	Orthopedic Surgery	486
26746	Open treatment of articu	20	Orthopedic Surgery	486
24576	Closed treatment of hun	20	Orthopedic Surgery	485
27327	Excision, tumor, thigh or	20	Orthopedic Surgery	484
27532	Closed treatment of tibia	20	Orthopedic Surgery	483
24635	Open treatment of Mont	20	Orthopedic Surgery	478
26910	Amputation, metacarpal	20	Orthopedic Surgery	478
27607	Incision (eg, osteomyelit	20	Orthopedic Surgery	477
64722	Decompression; unspec	20	Orthopedic Surgery	472
27240	Closed treatment of inte	20	Orthopedic Surgery	468
64831	Suture of digital nerve, h	20	Orthopedic Surgery	468
27000	Tenotomy, adductor of h	20	Orthopedic Surgery	466
27435	Capsulotomy, posterior	20	Orthopedic Surgery	460
27702	Arthroplasty, ankle; with	20	Orthopedic Surgery	459
26236	Partial excision (crateriz	20	Orthopedic Surgery	456
27596	Amputation, thigh, throu	20	Orthopedic Surgery	456
26445	Tenolysis, extensor tend	20	Orthopedic Surgery	453
27381	Suture of infrapatellar te	20	Orthopedic Surgery	453
27695	Repair, primary, disrupte	20	Orthopedic Surgery	452
27724	Repair of nonunion or m	20	Orthopedic Surgery	451
24435	Repair of nonunion or m	20	Orthopedic Surgery	445
28297	Correction, hallux valgus	20	Orthopedic Surgery	438
27871	Arthrodesis, tibiofibular j	20	Orthopedic Surgery	437
28310	Osteotomy, shortening,	20	Orthopedic Surgery	436
25260	Repair, tendon or muscl	20	Orthopedic Surgery	435
27641	Partial excision (crateriz	20	Orthopedic Surgery	435
23455	Capsulorrhaphy, anterio	20	Orthopedic Surgery	430
26770	Closed treatment of inte	20	Orthopedic Surgery	428
27071	Partial excision (crateriz	20	Orthopedic Surgery	427
27200	Closed treatment of coc	20	Orthopedic Surgery	427
64712	Neuroplasty, major perip	20	Orthopedic Surgery	426

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27560	Closed treatment of pate	20	Orthopedic Surgery	422
15430	Acellular xenograft impla	20	Orthopedic Surgery	417
25270	Repair, tendon or muscl	20	Orthopedic Surgery	411
27324	Biopsy, soft tissue of thi	20	Orthopedic Surgery	411
27365	Radical resection of tum	20	Orthopedic Surgery	411
29862	Arthroscopy, hip, surgica	20	Orthopedic Surgery	410
28003	Incision and drainage be	20	Orthopedic Surgery	408
22533	Arthrodesis, lateral extra	20	Orthopedic Surgery	406
22556	Arthrodesis, anterior inte	20	Orthopedic Surgery	406
22327	Open treatment and/or r	20	Orthopedic Surgery	405
25405	Repair of nonunion or m	20	Orthopedic Surgery	405
28113	Ostectomy, complete ex	20	Orthopedic Surgery	405
29883	Arthroscopy, knee, surg	20	Orthopedic Surgery	401
27033	Arthrotomy, hip, includin	20	Orthopedic Surgery	400
27386	Suture of quadriceps or	20	Orthopedic Surgery	400
26350	Repair or advancement,	20	Orthopedic Surgery	399
27658	Repair, flexor tendon, le	20	Orthopedic Surgery	399
27825	Closed treatment of frac	20	Orthopedic Surgery	399
27372	Removal of foreign body	20	Orthopedic Surgery	395
25215	Carpectomy; all bones c	20	Orthopedic Surgery	394
27232	Closed treatment of fem	20	Orthopedic Surgery	392
23395	Muscle transfer, any typ	20	Orthopedic Surgery	386
24147	Partial excision (crateriz	20	Orthopedic Surgery	385
26432	Closed treatment of dist	20	Orthopedic Surgery	384
24000	Arthrotomy, elbow, inclu	20	Orthopedic Surgery	383
15240	Full thickness graft, free	20	Orthopedic Surgery	380
63017	Laminectomy with explo	20	Orthopedic Surgery	378
27552	Closed treatment of kne	20	Orthopedic Surgery	376
24586	Open treatment of peria	20	Orthopedic Surgery	375
28126	Resection, partial or con	20	Orthopedic Surgery	373
24600	Treatment of closed elbo	20	Orthopedic Surgery	372
27253	Open treatment of hip di	20	Orthopedic Surgery	369
25810	Arthrodesis, wrist; with il	20	Orthopedic Surgery	368
22315	Closed treatment of vert	20	Orthopedic Surgery	364
26140	Synovectomy, proximal	20	Orthopedic Surgery	364
26040	Fasciotomy, palmar (eg,	20	Orthopedic Surgery	360
23585	Open treatment of scapu	20	Orthopedic Surgery	359
24535	Closed treatment of sup	20	Orthopedic Surgery	357
27619	Excision, tumor, leg or a	20	Orthopedic Surgery	356
64702	Neuroplasty; digital, one	20	Orthopedic Surgery	356
26235	Partial excision (crateriz	20	Orthopedic Surgery	355
15738	Muscle, myocutaneous,	20	Orthopedic Surgery	353
63051	Laminoplasty, cervical, v	20	Orthopedic Surgery	352
27502	Closed treatment of fem	20	Orthopedic Surgery	351
22326	Open treatment and/or r	20	Orthopedic Surgery	350
24560	Closed treatment of hun	20	Orthopedic Surgery	348
27405	Repair, primary, torn liga	20	Orthopedic Surgery	348
25320	Capsulorrhaphy or recor	20	Orthopedic Surgery	346
26593	Release, intrinsic muscl	20	Orthopedic Surgery	346
25105	Arthrotomy, wrist joint; w	20	Orthopedic Surgery	345
28011	Tenotomy, percutaneous	20	Orthopedic Surgery	345
26785	Open treatment of interp	20	Orthopedic Surgery	344

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23550	Open treatment of acror	20	Orthopedic Surgery	343
28705	Arthrodesis; pantalar	20	Orthopedic Surgery	343
27707	Osteotomy; fibula	20	Orthopedic Surgery	339
27842	Closed treatment of ank	20	Orthopedic Surgery	339
28119	Ostectomy, calcaneus; f	20	Orthopedic Surgery	339
27602	Decompression fascioto	20	Orthopedic Surgery	336
63688	Revision or removal of in	20	Orthopedic Surgery	335
25445	Arthroplasty with prosthe	20	Orthopedic Surgery	334
27840	Closed treatment of ank	20	Orthopedic Surgery	334
22595	Arthrodesis, posterior te	20	Orthopedic Surgery	332
27347	Excision of lesion of me	20	Orthopedic Surgery	332
26034	Incision, bone cortex, ha	20	Orthopedic Surgery	331
27170	Bone graft, femoral head	20	Orthopedic Surgery	331
25505	Closed treatment of radi	20	Orthopedic Surgery	330
24130	Excision, radial head	20	Orthopedic Surgery	328
24305	Tendon lengthening, up	20	Orthopedic Surgery	328
26530	Arthroplasty, metacarp	20	Orthopedic Surgery	327
27036	Capsulectomy or capsul	20	Orthopedic Surgery	326
23107	Arthrotomy, glenohumer	20	Orthopedic Surgery	323
23020	Capsular contracture rel	20	Orthopedic Surgery	321
27620	Arthrotomy, ankle, with j	20	Orthopedic Surgery	321
62350	Implantation, revision or	20	Orthopedic Surgery	321
27355	Excision or curettage of	20	Orthopedic Surgery	320
26520	Capsulectomy or capsul	20	Orthopedic Surgery	319
27227	Open treatment of aceta	20	Orthopedic Surgery	319
27510	Closed treatment of fem	20	Orthopedic Surgery	319
64782	Excision of neuroma; ha	20	Orthopedic Surgery	319
25040	Arthrotomy, radiocarpal	20	Orthopedic Surgery	314
27048	Excision, tumor, pelvis a	20	Orthopedic Surgery	314
27784	Open treatment of proxi	20	Orthopedic Surgery	313
25112	Excision of ganglion, wri	20	Orthopedic Surgery	312
25825	Arthrodesis, wrist; with a	20	Orthopedic Surgery	312
28104	Excision or curettage of	20	Orthopedic Surgery	312
26320	Removal of implant from	20	Orthopedic Surgery	311
28315	Sesamoidectomy, first to	20	Orthopedic Surgery	310
28645	Open treatment of meta	20	Orthopedic Surgery	310
26135	Synovectomy, metacarp	20	Orthopedic Surgery	303
27848	Open treatment of ankle	20	Orthopedic Surgery	299
23105	Arthrotomy; glenohumer	20	Orthopedic Surgery	297
27165	Osteotomy, intertrochan	20	Orthopedic Surgery	292
63087	Vertebral corpectomy (v	20	Orthopedic Surgery	291
27509	Percutaneous skeletal fi	20	Orthopedic Surgery	289
26775	Closed treatment of inte	20	Orthopedic Surgery	288
63660	Revision or removal of s	20	Orthopedic Surgery	288
29891	Arthroscopy, ankle, surg	20	Orthopedic Surgery	286
26075	Arthrotomy, with explora	20	Orthopedic Surgery	284
27618	Excision, tumor, leg or a	20	Orthopedic Surgery	283
25574	Open treatment of radia	20	Orthopedic Surgery	281
23675	Closed treatment of sho	20	Orthopedic Surgery	279
29897	Arthroscopy, ankle (tibi	20	Orthopedic Surgery	278
24343	Repair lateral collateral l	20	Orthopedic Surgery	275
27041	Biopsy, soft tissue of pe	20	Orthopedic Surgery	275

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24101	Arthrotomy, elbow; with	20	Orthopedic Surgery	273
27216	Percutaneous skeletal fi	20	Orthopedic Surgery	273
20661	Application of halo, inclu	20	Orthopedic Surgery	271
27635	Excision or curettage of	20	Orthopedic Surgery	270
23180	Partial excision (crateriz	20	Orthopedic Surgery	269
63015	Laminectomy with explo	20	Orthopedic Surgery	269
28515	Closed treatment of frac	20	Orthopedic Surgery	268
26485	Transfer or transplant of	20	Orthopedic Surgery	266
26862	Arthrodesis, interphalan	20	Orthopedic Surgery	262
28060	Fasciectomy, plantar fas	20	Orthopedic Surgery	261
25110	Excision, lesion of tendc	20	Orthopedic Surgery	259
27357	Excision or curettage of	20	Orthopedic Surgery	259
28445	Open treatment of talus	20	Orthopedic Surgery	258
28192	Removal of foreign body	20	Orthopedic Surgery	257
28476	Percutaneous skeletal fi	20	Orthopedic Surgery	257
24655	Closed treatment of radi	20	Orthopedic Surgery	255
26991	Incision and drainage, p	20	Orthopedic Surgery	255
27226	Open treatment of poste	20	Orthopedic Surgery	253
25800	Arthrodesis, wrist; comp	20	Orthopedic Surgery	252
27686	Lengthening or shorteni	20	Orthopedic Surgery	252
23540	Closed treatment of acro	20	Orthopedic Surgery	251
27054	Arthrotomy with synovec	20	Orthopedic Surgery	251
27598	Disarticulation at knee	20	Orthopedic Surgery	251
29895	Arthroscopy, ankle (tibi	20	Orthopedic Surgery	249
26535	Arthroplasty, interphalan	20	Orthopedic Surgery	248
23505	Closed treatment of clav	20	Orthopedic Surgery	245
28208	Repair, tendon, extenso	20	Orthopedic Surgery	243
27066	Excision of bone cyst or	20	Orthopedic Surgery	241
63650	Percutaneous implantati	20	Orthopedic Surgery	241
26455	Tenotomy, flexor, finger	20	Orthopedic Surgery	240
64784	Excision of neuroma; ma	20	Orthopedic Surgery	238
24120	Excision or curettage of	20	Orthopedic Surgery	235
26841	Arthrodesis, carpometac	20	Orthopedic Surgery	235
22212	Osteotomy of spine, pos	20	Orthopedic Surgery	234
23660	Open treatment of acute	20	Orthopedic Surgery	234
26426	Repair of extensor tendc	20	Orthopedic Surgery	234
27756	Percutaneous skeletal fi	20	Orthopedic Surgery	234
27217	Open treatment of anter	20	Orthopedic Surgery	233
23101	Arthrotomy, acromioclav	20	Orthopedic Surgery	231
28022	Arthrotomy, including ex	20	Orthopedic Surgery	231
28086	Synovectomy, tendon sh	20	Orthopedic Surgery	231
14020	Adjacent tissue transfer	20	Orthopedic Surgery	230
27222	Closed treatment of ace	20	Orthopedic Surgery	229
28250	Division of plantar fascia	20	Orthopedic Surgery	229
62362	Implantation or replacen	20	Orthopedic Surgery	228
26110	Arthrotomy with biopsy;	20	Orthopedic Surgery	226
27070	Partial excision (crateriz	20	Orthopedic Surgery	226
27445	Arthroplasty, knee, hing	20	Orthopedic Surgery	226
26442	Tenolysis, flexor tendon	20	Orthopedic Surgery	225
29838	Arthroscopy, elbow, surg	20	Orthopedic Surgery	223
24615	Open treatment of acute	20	Orthopedic Surgery	222
26025	Drainage of palmar burs	20	Orthopedic Surgery	222

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28280	Syndactylization, toes (e	20	Orthopedic Surgery	222
23625	Closed treatment of grea	20	Orthopedic Surgery	221
29899	Arthroscopy, ankle (tibia	20	Orthopedic Surgery	221
22804	Arthrodesis, posterior, fo	20	Orthopedic Surgery	220
27250	Closed treatment of hip	20	Orthopedic Surgery	219
24160	Implant removal; elbow	20	Orthopedic Surgery	217
27087	Removal of foreign body	20	Orthopedic Surgery	216
27762	Closed treatment of med	20	Orthopedic Surgery	216
27001	Tenotomy, adductor of h	20	Orthopedic Surgery	215
26516	Capsulodesis, metacarp	20	Orthopedic Surgery	214
29887	Arthroscopy, knee, surg	20	Orthopedic Surgery	214
27884	Amputation, leg, through	20	Orthopedic Surgery	212
27448	Osteotomy, femur, shaft	20	Orthopedic Surgery	210
24538	Percutaneous skeletal fi	20	Orthopedic Surgery	209
27049	Radical resection of tum	20	Orthopedic Surgery	208
27614	Biopsy, soft tissue of leg	20	Orthopedic Surgery	208
25535	Closed treatment of ulna	20	Orthopedic Surgery	207
28800	Amputation, foot; midtar	20	Orthopedic Surgery	207
27254	Open treatment of hip di	20	Orthopedic Surgery	206
63085	Vertebral corpectomy (v	20	Orthopedic Surgery	206
25360	Osteotomy; ulna	20	Orthopedic Surgery	205
26117	Radical resection of tum	20	Orthopedic Surgery	205
26755	Closed treatment of dist	20	Orthopedic Surgery	205
28108	Excision or curettage of	20	Orthopedic Surgery	204
27418	Anterior tibial tuberclepl	20	Orthopedic Surgery	203
27705	Osteotomy; tibia	20	Orthopedic Surgery	201
27659	Repair, flexor tendon, le	20	Orthopedic Surgery	200
25230	Radial styloidectomy (se	20	Orthopedic Surgery	199
26756	Percutaneous skeletal fi	20	Orthopedic Surgery	199
28322	Repair, nonunion or mal	20	Orthopedic Surgery	199
25332	Arthroplasty, wrist, with	20	Orthopedic Surgery	198
27664	Repair, extensor tendon	20	Orthopedic Surgery	198
23935	Incision, deep, with open	20	Orthopedic Surgery	197
25525	Open treatment of radia	20	Orthopedic Surgery	196
23184	Partial excision (crateriz	20	Orthopedic Surgery	195
28312	Osteotomy, shortening,	20	Orthopedic Surgery	194
29834	Arthroscopy, elbow, surg	20	Orthopedic Surgery	194
23044	Arthrotomy, acromioclav	20	Orthopedic Surgery	191
23450	Capsulorrhaphy, anterior	20	Orthopedic Surgery	191
27600	Decompression fascioto	20	Orthopedic Surgery	191
25628	Open treatment of carpa	20	Orthopedic Surgery	190
27403	Arthrotomy with meniscu	20	Orthopedic Surgery	190
28293	Correction, hallux valgus	20	Orthopedic Surgery	190
24140	Partial excision (crateriz	20	Orthopedic Surgery	189
25101	Arthrotomy, wrist joint; w	20	Orthopedic Surgery	185
25350	Osteotomy, radius; dista	20	Orthopedic Surgery	183
24149	Radical resection of cap	20	Orthopedic Surgery	181
24310	Tenotomy, open, elbow	20	Orthopedic Surgery	181
28008	Fasciotomy, foot and/or	20	Orthopedic Surgery	181
24366	Arthroplasty, radial head	20	Orthopedic Surgery	180
25390	Osteoplasty, radius OR	20	Orthopedic Surgery	178

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26230	Partial excision (crateriz	20	Orthopedic Surgery	178
26715	Open treatment of meta	20	Orthopedic Surgery	178
28100	Excision or curettage of	20	Orthopedic Surgery	178
25066	Biopsy, soft tissue of for	20	Orthopedic Surgery	176
27140	Osteotomy and transfer	20	Orthopedic Surgery	176
21930	Excision, tumor, soft tiss	20	Orthopedic Surgery	174
23670	Open treatment of shoul	20	Orthopedic Surgery	174
24102	Arthrotomy, elbow; with	20	Orthopedic Surgery	174
25259	Manipulation, wrist, unde	20	Orthopedic Surgery	174
26450	Tenotomy, flexor, palm,	20	Orthopedic Surgery	174
24077	Radical resection of tum	20	Orthopedic Surgery	173
28072	Synovectomy; metatars	20	Orthopedic Surgery	173
28505	Open treatment of fractu	20	Orthopedic Surgery	173
26433	Repair of extensor tend	20	Orthopedic Surgery	172
27846	Open treatment of ankle	20	Orthopedic Surgery	171
28735	Arthrodesis, midtarsal o	20	Orthopedic Surgery	171
28272	Capsulotomy; interphala	20	Orthopedic Surgery	169
25337	Reconstruction for stabi	20	Orthopedic Surgery	168
27194	Closed treatment of pelv	20	Orthopedic Surgery	168
27675	Repair, dislocating per	20	Orthopedic Surgery	168
28606	Percutaneous skeletal fi	20	Orthopedic Surgery	168
26776	Percutaneous skeletal fi	20	Orthopedic Surgery	166
27625	Arthrotomy, with synove	20	Orthopedic Surgery	165
29855	Arthroscopically aided tr	20	Orthopedic Surgery	165
27295	Disarticulation of hip	20	Orthopedic Surgery	163
27709	Osteotomy; tibia and fib	20	Orthopedic Surgery	163
27781	Closed treatment of pro	20	Orthopedic Surgery	163
64714	Neuroplasty, major perip	20	Orthopedic Surgery	163
27006	Tenotomy, abductors an	20	Orthopedic Surgery	162
25312	Tendon transplantation	20	Orthopedic Surgery	161
28092	Excision of lesion, tend	20	Orthopedic Surgery	160
27826	Open treatment of fractu	20	Orthopedic Surgery	159
14021	Adjacent tissue transfer	20	Orthopedic Surgery	158
27882	Amputation, leg, through	20	Orthopedic Surgery	158
27450	Osteotomy, femur, shaft	20	Orthopedic Surgery	157
28020	Arthrotomy, including ex	20	Orthopedic Surgery	157
26370	Repair or advancement	20	Orthopedic Surgery	156
26478	Lengthening of tendon, t	20	Orthopedic Surgery	156
27612	Arthrotomy, posterior ca	20	Orthopedic Surgery	156
24400	Osteotomy, humerus, w	20	Orthopedic Surgery	155
26037	Decompressive fascioto	20	Orthopedic Surgery	155
26742	Closed treatment of artic	20	Orthopedic Surgery	155
23066	Biopsy, soft tissue of sh	20	Orthopedic Surgery	153
27394	Lengthening of hamstrin	20	Orthopedic Surgery	153
62351	Implantation, revision or	20	Orthopedic Surgery	153
27704	Removal of ankle implar	20	Orthopedic Surgery	152
28525	Open treatment of fractu	20	Orthopedic Surgery	152
29863	Arthroscopy, hip, surgic	20	Orthopedic Surgery	151
27594	Amputation, thigh, throu	20	Orthopedic Surgery	150
27615	Radical resection of tum	20	Orthopedic Surgery	150
28140	Metatarsectomy	20	Orthopedic Surgery	149
23680	Open treatment of shoul	20	Orthopedic Surgery	148

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27305	Fasciotomy, iliotibial (ter	20	Orthopedic Surgery	148
27047	Excision, tumor, pelvis a	20	Orthopedic Surgery	147
28200	Repair, tendon, flexor, fo	20	Orthopedic Surgery	147
64774	Excision of neuroma; cu	20	Orthopedic Surgery	147
23552	Open treatment of acror	20	Orthopedic Surgery	146
22590	Arthrodesis, posterior te	20	Orthopedic Surgery	145
27538	Closed treatment of inte	20	Orthopedic Surgery	145
27652	Repair, primary, open or	20	Orthopedic Surgery	145
24675	Closed treatment of ulna	20	Orthopedic Surgery	144
26460	Tenotomy, extensor, ha	20	Orthopedic Surgery	144
29886	Arthroscopy, knee, surg	20	Orthopedic Surgery	144
63001	Laminectomy with explo	20	Orthopedic Surgery	144
26510	Cross intrinsic transfer,	20	Orthopedic Surgery	143
63277	Laminectomy for biopsy,	20	Orthopedic Surgery	143
22224	Osteotomy of spine, incl	20	Orthopedic Surgery	142
28238	Reconstruction (advanc	20	Orthopedic Surgery	142
24066	Biopsy, soft tissue of up	20	Orthopedic Surgery	140
24575	Open treatment of hume	20	Orthopedic Surgery	140
26852	Arthrodesis, metacarpop	20	Orthopedic Surgery	140
26180	Excision of tendon, finge	20	Orthopedic Surgery	139
28150	Phalangectomy, toe, ea	20	Orthopedic Surgery	139
28465	Open treatment of tarsi	20	Orthopedic Surgery	139
22010	Incision and drainage, o	20	Orthopedic Surgery	138
25652	Open treatment of ulnar	20	Orthopedic Surgery	138
26030	Drainage of palmar bursa	20	Orthopedic Surgery	137
26542	Reconstruction, collater	20	Orthopedic Surgery	137
24498	Prophylactic treatment (	20	Orthopedic Surgery	136
25820	Arthrodesis, wrist; limite	20	Orthopedic Surgery	135
15736	Muscle, myocutaneous,	20	Orthopedic Surgery	134
26483	Transfer or transplant of	20	Orthopedic Surgery	134
62287	Aspiration or decompres	20	Orthopedic Surgery	134
23466	Capsulorrhaphy, glenoh	20	Orthopedic Surgery	133
26471	Tenodesis; of proximal i	20	Orthopedic Surgery	133
63710	Dural graft, spinal	20	Orthopedic Surgery	133
26070	Arthrotomy, with explora	20	Orthopedic Surgery	132
27218	Open treatment of poste	20	Orthopedic Surgery	132
27427	Ligamentous reconstruc	20	Orthopedic Surgery	132
15120	Split-thickness autograft	20	Orthopedic Surgery	132
63276	Laminectomy for biopsy,	20	Orthopedic Surgery	130
26541	Reconstruction, collater	20	Orthopedic Surgery	128
26650	Percutaneous skeletal fi	20	Orthopedic Surgery	127
27540	Open treatment of interc	20	Orthopedic Surgery	127
27626	Arthrotomy, with synove	20	Orthopedic Surgery	126
24620	Closed treatment of Mor	20	Orthopedic Surgery	125
26200	Excision or curettage of	20	Orthopedic Surgery	125
63011	Laminectomy with explo	20	Orthopedic Surgery	125
23000	Removal of subdeltoid c	20	Orthopedic Surgery	124
24300	Manipulation, elbow, unc	20	Orthopedic Surgery	124
29894	Arthroscopy, ankle (tibi	20	Orthopedic Surgery	124
24340	Tenodesis of biceps ten	20	Orthopedic Surgery	123
28111	Ostectomy, complete ex	20	Orthopedic Surgery	123
28304	Osteotomy, tarsal bones	20	Orthopedic Surgery	123

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63077	Discectomy, anterior, wi	20	Orthopedic Surgery	123
22808	Arthrodesis, anterior, for	20	Orthopedic Surgery	121
25301	Tenodesis at wrist; exte	20	Orthopedic Surgery	121
64820	Sympathectomy; digital	20	Orthopedic Surgery	121
23485	Osteotomy, clavicle, with	20	Orthopedic Surgery	120
25248	Exploration with remova	20	Orthopedic Surgery	120
63102	Vertebral corpectomy (v	20	Orthopedic Surgery	120
28405	Closed treatment of calc	20	Orthopedic Surgery	119
29889	Arthroscopically aided p	20	Orthopedic Surgery	118
28240	Tenotomy, lengthening,	20	Orthopedic Surgery	116
27332	Arthrotomy, with excisio	20	Orthopedic Surgery	115
35761	Exploration (not followe	20	Orthopedic Surgery	115
15050	Pinch graft, single or mu	20	Orthopedic Surgery	114
23035	Incision, bone cortex (eg	20	Orthopedic Surgery	114
23480	Osteotomy, clavicle, with	20	Orthopedic Surgery	114
23140	Excision or curettage of	20	Orthopedic Surgery	112
25077	Radical resection of tum	20	Orthopedic Surgery	112
27280	Arthrodesis, sacroiliac j	20	Orthopedic Surgery	112
27550	Closed treatment of kne	20	Orthopedic Surgery	112
27638	Excision or curettage of	20	Orthopedic Surgery	111
63040	Laminotomy (hemilamin	20	Orthopedic Surgery	111
27052	Arthrotomy, with biopsy;	20	Orthopedic Surgery	110
25526	Open treatment of radia	20	Orthopedic Surgery	109
64776	Excision of neuroma; dig	20	Orthopedic Surgery	108
19301	Mastectomy, partial (eg,	20	Orthopedic Surgery	107
26548	Repair and reconstructi	20	Orthopedic Surgery	107
26700	Closed treatment of met	20	Orthopedic Surgery	107
29844	Arthroscopy, wrist, surgi	20	Orthopedic Surgery	107
25676	Open treatment of distal	20	Orthopedic Surgery	106
23077	Radical resection of tum	20	Orthopedic Surgery	105
27665	Repair, extensor tendon	20	Orthopedic Surgery	105
28495	Closed treatment of frac	20	Orthopedic Surgery	105
28585	Open treatment of talota	20	Orthopedic Surgery	105
63003	Laminectomy with explo	20	Orthopedic Surgery	105
63055	Transpedicular approach	20	Orthopedic Surgery	105
25035	Incision, deep, bone cor	20	Orthopedic Surgery	103
27356	Excision or curettage of	20	Orthopedic Surgery	102
27703	Arthroplasty, ankle; revis	20	Orthopedic Surgery	102
47562	Laparoscopy, surgical; c	20	Orthopedic Surgery	102
22810	Arthrodesis, anterior, for	20	Orthopedic Surgery	101
27604	Incision and drainage, le	20	Orthopedic Surgery	101
28262	Capsulotomy, midfoot; e	20	Orthopedic Surgery	101
66984	Extracapsular cataract r	20	Orthopedic Surgery	101
27065	Excision of bone cyst or	20	Orthopedic Surgery	100
27161	Osteotomy, femoral nec	20	Orthopedic Surgery	100
28406	Percutaneous skeletal fi	20	Orthopedic Surgery	100
49505	Repair initial inguinal he	20	Orthopedic Surgery	100
15734	Muscle, myocutaneous,	20	Orthopedic Surgery	99
24006	Arthrotomy of the elbow	20	Orthopedic Surgery	99
27457	Osteotomy, proximal tibi	20	Orthopedic Surgery	99
23150	Excision or curettage of	20	Orthopedic Surgery	98
14300	Adjacent tissue transfer	20	Orthopedic Surgery	96

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27745	Prophylactic treatment (20	Orthopedic Surgery	96
27888	Amputation, ankle, throu	20	Orthopedic Surgery	96
28760	Arthrodesis, with extens	20	Orthopedic Surgery	96
27005	Tenotomy, hip flexor(s),	20	Orthopedic Surgery	95
27696	Repair, primary, disrupte	20	Orthopedic Surgery	95
63101	Vertebral corpectomy (v	20	Orthopedic Surgery	95
21925	Biopsy, soft tissue of ba	20	Orthopedic Surgery	94
23465	Capsulorrhaphy, glenoh	20	Orthopedic Surgery	94
27120	Acetabuloplasty; (eg, W	20	Orthopedic Surgery	94
64772	Transection or avulsion	20	Orthopedic Surgery	94
25107	Arthrotomy, distal radiou	20	Orthopedic Surgery	93
35206	Repair blood vessel, dire	20	Orthopedic Surgery	93
25272	Repair, tendon or muscl	20	Orthopedic Surgery	92
27592	Amputation, thigh, throu	20	Orthopedic Surgery	92
25130	Excision or curettage of	20	Orthopedic Surgery	91
25624	Closed treatment of car	20	Orthopedic Surgery	91
29837	Arthroscopy, elbow, surg	20	Orthopedic Surgery	91
24587	Open treatment of peria	20	Orthopedic Surgery	90
28555	Open treatment of tarsi	20	Orthopedic Surgery	90
25119	Synovectomy, extensor	20	Orthopedic Surgery	89
27420	Reconstruction of disloc	20	Orthopedic Surgery	89
25900	Amputation, forearm, thi	20	Orthopedic Surgery	88
26449	Tenolysis, complex, exte	20	Orthopedic Surgery	88
26607	Closed treatment of met	20	Orthopedic Surgery	88
26676	Percutaneous skeletal fi	20	Orthopedic Surgery	88
28890	Extracorporeal shock wa	20	Orthopedic Surgery	88
25446	Arthroplasty with prosthe	20	Orthopedic Surgery	87
28220	Tenolysis, flexor, foot; si	20	Orthopedic Surgery	87
15574	Formation of direct or tu	20	Orthopedic Surgery	86
27080	Coccygectomy, primary	20	Orthopedic Surgery	86
27442	Arthroplasty, femoral co	20	Orthopedic Surgery	86
28320	Repair, nonunion or mal	20	Orthopedic Surgery	86
15220	Full thickness graft, free	20	Orthopedic Surgery	85
25151	Partial excision (crateriz	20	Orthopedic Surgery	85
64713	Neuroplasty, major perip	20	Orthopedic Surgery	85
25150	Partial excision (crateriz	20	Orthopedic Surgery	84
25680	Closed treatment of tran	20	Orthopedic Surgery	84
27647	Radical resection of tum	20	Orthopedic Surgery	84
24150	Radical resection for tur	20	Orthopedic Surgery	83
26170	Excision of tendon, palm	20	Orthopedic Surgery	83
27466	Osteoplasty, femur; leng	20	Orthopedic Surgery	83
24345	Repair medial collateral	20	Orthopedic Surgery	82
25001	Incision, flexor tendon s	20	Orthopedic Surgery	82
27258	Open treatment of spon	20	Orthopedic Surgery	82
27424	Reconstruction of disloc	20	Orthopedic Surgery	82
28193	Removal of foreign body	20	Orthopedic Surgery	82
28496	Percutaneous skeletal fi	20	Orthopedic Surgery	82
25440	Repair of nonunion, sca	20	Orthopedic Surgery	81
27428	Ligamentous reconstruc	20	Orthopedic Surgery	81
27076	Radical resection of tum	20	Orthopedic Surgery	80
25660	Closed treatment of radi	20	Orthopedic Surgery	79
26705	Closed treatment of met	20	Orthopedic Surgery	79

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28024	Arthrotomy, including ex	20	Orthopedic Surgery	79
35207	Repair blood vessel, dire	20	Orthopedic Surgery	79
22114	Partial excision of verteb	20	Orthopedic Surgery	78
25120	Excision or curettage of	20	Orthopedic Surgery	78
25670	Open treatment of radio	20	Orthopedic Surgery	78
25671	Percutaneous skeletal fi	20	Orthopedic Surgery	78
27393	Lengthening of hamstrin	20	Orthopedic Surgery	78
27556	Open treatment of knee	20	Orthopedic Surgery	78
27455	Osteotomy, proximal tibi	20	Orthopedic Surgery	77
63266	Laminectomy for excisio	20	Orthopedic Surgery	77
66821	Discission of secondary	20	Orthopedic Surgery	77
21820	Closed treatment of ster	20	Orthopedic Surgery	76
24110	Excision or curettage of	20	Orthopedic Surgery	76
24201	Removal of foreign body	20	Orthopedic Surgery	76
26060	Tenotomy, percutaneou	20	Orthopedic Surgery	76
28600	Closed treatment of tars	20	Orthopedic Surgery	76
24900	Amputation, arm throug	20	Orthopedic Surgery	75
26842	Arthrodesis, carpometac	20	Orthopedic Surgery	75
27330	Arthrotomy, knee; with s	20	Orthopedic Surgery	75
28675	Open treatment of interp	20	Orthopedic Surgery	75
27307	Tenotomy, percutaneou	20	Orthopedic Surgery	74
28225	Tenolysis, extensor, foo	20	Orthopedic Surgery	74
62365	Removal of subcutaneo	20	Orthopedic Surgery	74
26500	Reconstruction of tendo	20	Orthopedic Surgery	73
27591	Amputation, thigh, throu	20	Orthopedic Surgery	73
27601	Decompression fascioto	20	Orthopedic Surgery	72
29845	Arthroscopy, wrist, surg	20	Orthopedic Surgery	72
22210	Osteotomy of spine, pos	20	Orthopedic Surgery	71
26130	Synovectomy, carpomet	20	Orthopedic Surgery	71
44140	Colectomy, partial; with	20	Orthopedic Surgery	71
15740	Flap; island pedicle	20	Orthopedic Surgery	70
26508	Release of thenar musc	20	Orthopedic Surgery	70
27676	Repair, dislocating peron	20	Orthopedic Surgery	69
23406	Tenotomy, shoulder are	20	Orthopedic Surgery	68
27391	Tenotomy, open, hamst	20	Orthopedic Surgery	68
15365	Tissue cultured allogene	20	Orthopedic Surgery	67
25805	Arthrodesis, wrist; with s	20	Orthopedic Surgery	67
27894	Decompression fascioto	20	Orthopedic Surgery	67
35301	Thromboendarterectomy	20	Orthopedic Surgery	67
63016	Laminectomy with explo	20	Orthopedic Surgery	67
26665	Open treatment of carpd	20	Orthopedic Surgery	66
28737	Arthrodesis, with tendon	20	Orthopedic Surgery	66
15770	Graft; derma-fat-fascia	20	Orthopedic Surgery	65
26477	Shortening of tendon, ex	20	Orthopedic Surgery	65
26567	Osteotomy; phalanx of f	20	Orthopedic Surgery	65
26645	Closed treatment of carp	20	Orthopedic Surgery	65
15300	Allograft skin for tempor	20	Orthopedic Surgery	64
22318	Open treatment and/or r	20	Orthopedic Surgery	64
25651	Percutaneous skeletal fi	20	Orthopedic Surgery	64
26706	Percutaneous skeletal fi	20	Orthopedic Surgery	64
27215	Open treatment of iliac s	20	Orthopedic Surgery	64
28309	Osteotomy, with or witho	20	Orthopedic Surgery	64

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26412	Repair, extensor tendon	20	Orthopedic Surgery	63
29885	Arthroscopy, knee, surg	20	Orthopedic Surgery	63
19125	Excision of breast lesion	20	Orthopedic Surgery	62
25420	Repair of nonunion or m	20	Orthopedic Surgery	62
26490	Opponensplasty; superf	20	Orthopedic Surgery	62
27306	Tenotomy, percutaneous	20	Orthopedic Surgery	62
38525	Biopsy or excision of lym	20	Orthopedic Surgery	62
64856	Suture of major peripher	20	Orthopedic Surgery	62
23222	Radical resection of bon	20	Orthopedic Surgery	61
27715	Osteoplasty, tibia and fib	20	Orthopedic Surgery	61
27725	Repair of nonunion or m	20	Orthopedic Surgery	61
25263	Repair, tendon or muscl	20	Orthopedic Surgery	60
25415	Repair of nonunion or m	20	Orthopedic Surgery	60
26035	Decompression fingers	20	Orthopedic Surgery	60
25274	Repair, tendon or muscl	20	Orthopedic Surgery	59
27566	Open treatment of patell	20	Orthopedic Surgery	59
19120	Excision of cyst, fibroad	20	Orthopedic Surgery	58
26105	Arthrotomy with biopsy;	20	Orthopedic Surgery	58
27075	Radical resection of tum	20	Orthopedic Surgery	58
28070	Synovectomy; intertarsal	20	Orthopedic Surgery	58
23195	Resection, humeral head	20	Orthopedic Surgery	57
25085	Capsulotomy, wrist (eg,	20	Orthopedic Surgery	57
26546	Repair non-union, metac	20	Orthopedic Surgery	57
62355	Removal of previously in	20	Orthopedic Surgery	57
27892	Decompression fasciotom	20	Orthopedic Surgery	56
64834	Suture of one nerve; har	20	Orthopedic Surgery	56
23182	Partial excision (crateriz	20	Orthopedic Surgery	55
23520	Closed treatment of ster	20	Orthopedic Surgery	55
25023	Decompression fasciotom	20	Orthopedic Surgery	55
29836	Arthroscopy, elbow, surg	20	Orthopedic Surgery	55
35226	Repair blood vessel, dire	20	Orthopedic Surgery	55
21501	Incision and drainage, d	20	Orthopedic Surgery	54
23491	Prophylactic treatment (	20	Orthopedic Surgery	54
24138	Sequestrectomy (eg, for	20	Orthopedic Surgery	54
24365	Arthroplasty, radial head	20	Orthopedic Surgery	54
25830	Arthrodesis, distal radiou	20	Orthopedic Surgery	54
47600	Cholecystectomy;	20	Orthopedic Surgery	54
15330	Acellular dermal allograft	20	Orthopedic Surgery	53
24301	Muscle or tendon transf	20	Orthopedic Surgery	53
25024	Decompression fasciotom	20	Orthopedic Surgery	53
25675	Closed treatment of dist	20	Orthopedic Surgery	53
26565	Osteotomy; metacarpal,	20	Orthopedic Surgery	53
29893	Endoscopic plantar fasc	20	Orthopedic Surgery	52
26591	Repair, intrinsic muscles	20	Orthopedic Surgery	52
27645	Radical resection of tum	20	Orthopedic Surgery	52
28088	Synovectomy, tendon she	20	Orthopedic Surgery	52
28130	Talectomy (astragalecto	20	Orthopedic Surgery	52
47563	Laparoscopy, surgical; c	20	Orthopedic Surgery	52
62360	Implantation or replacen	20	Orthopedic Surgery	52
14041	Adjacent tissue transfer	20	Orthopedic Surgery	51
26496	Opponensplasty; other r	20	Orthopedic Surgery	51
28435	Closed treatment of talu	20	Orthopedic Surgery	51

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29835	Arthroscopy, elbow, surg	20	Orthopedic Surgery	51
44120	Enterectomy, resection	20	Orthopedic Surgery	51
49560	Repair initial incisional	20	Orthopedic Surgery	51
21555	Excision tumor, soft tiss	20	Orthopedic Surgery	50
22532	Arthrodesis, lateral extra	20	Orthopedic Surgery	50
23462	Capsulorrhaphy, anterior	20	Orthopedic Surgery	50
28260	Capsulotomy, midfoot; r	20	Orthopedic Surgery	50
29866	Arthroscopy, knee, surg	20	Orthopedic Surgery	50
14000	Adjacent tissue transfer	20	Orthopedic Surgery	49
27003	Tenotomy, adductor, sul	20	Orthopedic Surgery	49
61793	Stereotactic radiosurger	20	Orthopedic Surgery	49
20956	Bone graft with microvas	20	Orthopedic Surgery	48
23174	Sequestrectomy (eg, for	20	Orthopedic Surgery	48
23397	Muscle transfer, any typ	20	Orthopedic Surgery	48
24344	Reconstruction lateral c	20	Orthopedic Surgery	48
26685	Open treatment of carpe	20	Orthopedic Surgery	48
64726	Decompression; plantar	20	Orthopedic Surgery	48
22220	Osteotomy of spine, incl	20	Orthopedic Surgery	47
23460	Capsulorrhaphy, anterior	20	Orthopedic Surgery	47
24361	Arthroplasty, elbow; with	20	Orthopedic Surgery	47
63272	Laminectomy for excisio	20	Orthopedic Surgery	47
64790	Excision of neurofibroma	20	Orthopedic Surgery	47
24164	Implant removal; radial h	20	Orthopedic Surgery	46
25300	Tenodesis at wrist; flexo	20	Orthopedic Surgery	46
26545	Reconstruction, collatera	20	Orthopedic Surgery	46
28294	Correction, hallux valgus	20	Orthopedic Surgery	46
23575	Closed treatment of sca	20	Orthopedic Surgery	45
24577	Closed treatment of hum	20	Orthopedic Surgery	45
25275	Repair, tendon sheath, e	20	Orthopedic Surgery	45
27441	Arthroplasty, knee, tibial	20	Orthopedic Surgery	45
28062	Fasciectomy, plantar fas	20	Orthopedic Surgery	45
21556	Excision tumor, soft tiss	20	Orthopedic Surgery	44
22110	Partial excision of verteb	20	Orthopedic Surgery	44
26420	Repair, extensor tendon	20	Orthopedic Surgery	44
27176	Treatment of slipped fer	20	Orthopedic Surgery	44
27443	Arthroplasty, femoral co	20	Orthopedic Surgery	44
27415	Osteochondral allograft,	20	Orthopedic Surgery	43
29840	Arthroscopy, wrist, diagn	20	Orthopedic Surgery	43
35721	Exploration (not followe	20	Orthopedic Surgery	43
63064	Costovertebral approach	20	Orthopedic Surgery	43
22818	Kyphectomy, circumfere	20	Orthopedic Surgery	42
23125	Claviclectomy; total	20	Orthopedic Surgery	42
25449	Revision of arthroplasty,	20	Orthopedic Surgery	42
29867	Arthroscopy, knee, surg	20	Orthopedic Surgery	42
15832	Excision, excessive skin	20	Orthopedic Surgery	41
27146	Osteotomy, iliac, acetab	20	Orthopedic Surgery	41
27477	Arrest, epiphyseal, any r	20	Orthopedic Surgery	41
28455	Treatment of tarsal bone	20	Orthopedic Surgery	41
19302	Mastectomy, partial (eg,	20	Orthopedic Surgery	40
19307	Mastectomy, modified ra	20	Orthopedic Surgery	40
25442	Arthroplasty with prosthe	20	Orthopedic Surgery	40
27637	Excision or curettage of	20	Orthopedic Surgery	40

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23100	Arthrotomy, glenohumer	20	Orthopedic Surgery	39
23220	Radical resection of bon	20	Orthopedic Surgery	39
28305	Osteotomy, tarsal bones	20	Orthopedic Surgery	39
28307	Osteotomy, with or witho	20	Orthopedic Surgery	39
63050	Laminoplasty, cervical, v	20	Orthopedic Surgery	39
14001	Adjacent tissue transfer	20	Orthopedic Surgery	38
14350	Filletted finger or toe flap	20	Orthopedic Surgery	38
23156	Excision or curettage of	20	Orthopedic Surgery	38
27700	Arthroplasty, ankle;	20	Orthopedic Surgery	38
37618	Ligation, major artery (e	20	Orthopedic Surgery	38
61510	Craniectomy, trephinitic	20	Orthopedic Surgery	38
64857	Suture of major peripher	20	Orthopedic Surgery	38
25645	Open treatment of carpa	20	Orthopedic Surgery	37
28046	Radical resection of tum	20	Orthopedic Surgery	37
28605	Closed treatment of tars	20	Orthopedic Surgery	37
15115	Epidermal autograft, fac	20	Orthopedic Surgery	36
25100	Arthrotomy, wrist joint; w	20	Orthopedic Surgery	36
25315	Flexor origin slide (eg, fo	20	Orthopedic Surgery	36
26670	Closed treatment of carp	20	Orthopedic Surgery	36
27078	Radical resection of tum	20	Orthopedic Surgery	36
27390	Tenotomy, open, hamstr	20	Orthopedic Surgery	36
28052	Arthrotomy with biopsy;	20	Orthopedic Surgery	36
29861	Arthroscopy, hip, surgica	20	Orthopedic Surgery	36
15420	Xenograft skin (dermal),	20	Orthopedic Surgery	35
24330	Flexor-plasty, elbow (eg	20	Orthopedic Surgery	35
25635	Closed treatment of carp	20	Orthopedic Surgery	35
27400	Transfer, tendon or mus	20	Orthopedic Surgery	35
28286	Correction, cock-up fifth	20	Orthopedic Surgery	35
50360	Renal allotransplantation	20	Orthopedic Surgery	35
61312	Craniectomy or cranioto	20	Orthopedic Surgery	35
15620	Delay of flap or sectionir	20	Orthopedic Surgery	34
21935	Radical resection of tum	20	Orthopedic Surgery	34
22100	Partial excision of poste	20	Orthopedic Surgery	34
25391	Osteoplasty, radius OR	20	Orthopedic Surgery	34
26215	Excision or curettage of	20	Orthopedic Surgery	34
27407	Repair, primary, torn liga	20	Orthopedic Surgery	34
28302	Osteotomy; talus	20	Orthopedic Surgery	34
49585	Repair umbilical hernia,	20	Orthopedic Surgery	34
27519	Open treatment of distal	20	Orthopedic Surgery	33
28264	Capsulotomy, midtarsal	20	Orthopedic Surgery	33
62223	Creation of shunt; ventri	20	Orthopedic Surgery	33
15170	Acellular dermal replace	20	Orthopedic Surgery	32
23800	Arthrodesis, glenohume	20	Orthopedic Surgery	32
25250	Removal of wrist prosth	20	Orthopedic Surgery	32
25520	Closed treatment of radi	20	Orthopedic Surgery	32
26489	Transfer or transplant of	20	Orthopedic Surgery	32
28420	Open treatment of calca	20	Orthopedic Surgery	32
28570	Closed treatment of talo	20	Orthopedic Surgery	32
29892	Arthroscopically aided re	20	Orthopedic Surgery	32
62361	Implantation or replacen	20	Orthopedic Surgery	32
64821	Sympathectomy; radial a	20	Orthopedic Surgery	32
15750	Flap; neurovascular ped	20	Orthopedic Surgery	31

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15937	Excision, sacral pressur	20	Orthopedic Surgery	31
25145	Sequestrectomy (eg, for	20	Orthopedic Surgery	31
27681	Tenolysis, flexor or exte	20	Orthopedic Surgery	31
24145	Partial excision (crateriz	20	Orthopedic Surgery	30
24332	Tenolysis, triceps	20	Orthopedic Surgery	30
25695	Open treatment of lunat	20	Orthopedic Surgery	30
26492	Opponensplasty; tendor	20	Orthopedic Surgery	30
26596	Excision of constricting	20	Orthopedic Surgery	30
27395	Lengthening of hamstrin	20	Orthopedic Surgery	30
27496	Decompression fascioto	20	Orthopedic Surgery	30
27722	Repair of nonunion or m	20	Orthopedic Surgery	30
28575	Closed treatment of talo	20	Orthopedic Surgery	30
29860	Arthroscopy, hip, diagno	20	Orthopedic Surgery	30
31030	Sinusotomy, maxillary (a	20	Orthopedic Surgery	30
15946	Excision, ischial pressur	20	Orthopedic Surgery	29
23210	Radical resection for tur	20	Orthopedic Surgery	29
24360	Arthroplasty, elbow; with	20	Orthopedic Surgery	29
25920	Disarticulation through v	20	Orthopedic Surgery	29
26352	Repair or advancement,	20	Orthopedic Surgery	29
26675	Closed treatment of carp	20	Orthopedic Surgery	29
27454	Osteotomy, multiple, wit	20	Orthopedic Surgery	29
27516	Closed treatment of dist	20	Orthopedic Surgery	29
28116	Ostectomy, excision of t	20	Orthopedic Surgery	29
28222	Tenolysis, flexor, foot; m	20	Orthopedic Surgery	29
28261	Capsulotomy, midfoot; v	20	Orthopedic Surgery	29
64836	Suture of one nerve; uln	20	Orthopedic Surgery	29
19303	Mastectomy, simple, cor	20	Orthopedic Surgery	28
21557	Radical resection of tum	20	Orthopedic Surgery	28
23920	Disarticulation of should	20	Orthopedic Surgery	28
24134	Sequestrectomy (eg, for	20	Orthopedic Surgery	28
27100	Transfer external obliqu	20	Orthopedic Surgery	28
27110	Transfer iliopsoas; to gre	20	Orthopedic Surgery	28
27558	Open treatment of knee	20	Orthopedic Surgery	28
28050	Arthrotomy with biopsy;	20	Orthopedic Surgery	28
64822	Sympathectomy; ulnar a	20	Orthopedic Surgery	28
15400	Xenograft, skin (dermal)	20	Orthopedic Surgery	28
26497	Transfer of tendon to res	20	Orthopedic Surgery	27
26686	Open treatment of carpo	20	Orthopedic Surgery	27
27151	Osteotomy, iliac, acetab	20	Orthopedic Surgery	27
27656	Repair, fascial defect of	20	Orthopedic Surgery	27
28530	Closed treatment of ses	20	Orthopedic Surgery	27
64788	Excision of neurofibroma	20	Orthopedic Surgery	27
15200	Full thickness graft, free	20	Orthopedic Surgery	26
23190	Ostectomy of scapula, p	20	Orthopedic Surgery	26
23545	Closed treatment of acro	20	Orthopedic Surgery	26
24565	Closed treatment of hun	20	Orthopedic Surgery	26
26357	Repair or advancement,	20	Orthopedic Surgery	26
26641	Closed treatment of carp	20	Orthopedic Surgery	26
26844	Arthrodesis, carpometac	20	Orthopedic Surgery	26
27179	Open treatment of slippe	20	Orthopedic Surgery	26
27290	Interpelviabdominal amp	20	Orthopedic Surgery	26
29847	Arthroscopy, wrist, surgi	20	Orthopedic Surgery	26

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49215	Excision of presacral or	20	Orthopedic Surgery	26
15175	Acellular dermal replace	20	Orthopedic Surgery	26
22101	Partial excision of poste	20	Orthopedic Surgery	25
25031	Incision and drainage, fo	20	Orthopedic Surgery	25
26474	Tenodesis; of distal joint	20	Orthopedic Surgery	25
27392	Tenotomy, open, hamst	20	Orthopedic Surgery	25
35860	Exploration for postoper	20	Orthopedic Surgery	25
49561	Repair initial incisional o	20	Orthopedic Surgery	25
62141	Cranioplasty for skull de	20	Orthopedic Surgery	25
63301	Vertebral corpectomy (v	20	Orthopedic Surgery	25
15130	Dermal autograft, trunk,	20	Orthopedic Surgery	24
19110	Nipple exploration, with	20	Orthopedic Surgery	24
21610	Costotransversectomy (	20	Orthopedic Surgery	24
25135	Excision or curettage of	20	Orthopedic Surgery	24
25690	Closed treatment of luna	20	Orthopedic Surgery	24
26372	Repair or advancement	20	Orthopedic Surgery	24
26390	Excision flexor tendon, v	20	Orthopedic Surgery	24
26476	Lengthening of tendon, e	20	Orthopedic Surgery	24
27097	Release or recession, h	20	Orthopedic Surgery	24
27429	Ligamentous reconstruc	20	Orthopedic Surgery	24
28210	Repair, tendon, extenso	20	Orthopedic Surgery	24
29843	Arthroscopy, wrist, surgi	20	Orthopedic Surgery	24
63303	Vertebral corpectomy (v	20	Orthopedic Surgery	24
15110	Epidermal autograft, tru	20	Orthopedic Surgery	23
22222	Osteotomy of spine, incl	20	Orthopedic Surgery	23
24582	Percutaneous skeletal fi	20	Orthopedic Surgery	23
25425	Repair of defect with aut	20	Orthopedic Surgery	23
27409	Repair, primary, torn liga	20	Orthopedic Surgery	23
27498	Decompression fascioto	20	Orthopedic Surgery	23
29856	Arthroscopically aided tr	20	Orthopedic Surgery	23
35741	Exploration (not followe	20	Orthopedic Surgery	23
63265	Laminectomy for excisio	20	Orthopedic Surgery	23
64835	Suture of one nerve; me	20	Orthopedic Surgery	23
15320	Allograft skin for tempor	20	Orthopedic Surgery	22
20922	Fascia lata graft; by inc	20	Orthopedic Surgery	22
22812	Arthrodesis, anterior, fo	20	Orthopedic Surgery	22
25025	Decompression fascioto	20	Orthopedic Surgery	22
25170	Radical resection for tur	20	Orthopedic Surgery	22
26100	Arthrotomy with biopsy;	20	Orthopedic Surgery	22
26392	Removal of synthetic ro	20	Orthopedic Surgery	22
26498	Transfer of tendon to res	20	Orthopedic Surgery	22
27465	Osteoplasty, femur; sho	20	Orthopedic Surgery	22
27712	Osteotomy; multiple, wit	20	Orthopedic Surgery	22
28054	Arthrotomy with biopsy;	20	Orthopedic Surgery	22
28456	Percutaneous skeletal fi	20	Orthopedic Surgery	22
28540	Closed treatment of tars	20	Orthopedic Surgery	22
35045	Direct repair of aneurysr	20	Orthopedic Surgery	22
44005	Enterolysis (freeing of in	20	Orthopedic Surgery	22
22548	Arthrodesis, anterior tra	20	Orthopedic Surgery	21
23106	Arthrotomy; sternoclavic	20	Orthopedic Surgery	21
24495	Decompression fascioto	20	Orthopedic Surgery	21
25265	Repair, tendon or muscl	20	Orthopedic Surgery	21

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25685	Open treatment of trans	20	Orthopedic Surgery	21
25927	Transmetacarpal amput	20	Orthopedic Surgery	21
26820	Fusion in opposition, thu	20	Orthopedic Surgery	21
27333	Arthrotomy, with excisio	20	Orthopedic Surgery	21
27440	Arthroplasty, knee, tibia	20	Orthopedic Surgery	21
27562	Closed treatment of pate	20	Orthopedic Surgery	21
27893	Decompression fascioto	20	Orthopedic Surgery	21
15756	Free muscle or myocuta	20	Orthopedic Surgery	20
23900	Interthoracoscapular am	20	Orthopedic Surgery	20
24346	Reconstruction medial c	20	Orthopedic Surgery	20
25126	Excision or curettage of	20	Orthopedic Surgery	20
26502	Reconstruction of tendo	20	Orthopedic Surgery	20
27156	Osteotomy, iliac, acetab	20	Orthopedic Surgery	20
27646	Radical resection of tum	20	Orthopedic Surgery	20
28173	Radical resection of tum	20	Orthopedic Surgery	20
28546	Percutaneous skeletal fi	20	Orthopedic Surgery	20
31040	Pterygomaxillary fossa s	20	Orthopedic Surgery	20
44143	Colectomy, partial; with	20	Orthopedic Surgery	20
64890	Nerve graft (includes ob	20	Orthopedic Surgery	20
25109	Excision of tendon, forea	20	Orthopedic Surgery	19
21510	Incision, deep, with oper	20	Orthopedic Surgery	19
23200	Radical resection for tur	20	Orthopedic Surgery	19
26415	Excision of extensor ten	20	Orthopedic Surgery	19
26843	Arthrodesis, carpometac	20	Orthopedic Surgery	19
27499	Decompression fascioto	20	Orthopedic Surgery	19
28202	Repair, tendon, flexor, fo	20	Orthopedic Surgery	19
35236	Repair blood vessel with	20	Orthopedic Surgery	19
63190	Laminectomy with rhizot	20	Orthopedic Surgery	19
15950	Excision, trochanteric pr	20	Orthopedic Surgery	18
20955	Bone graft with microvas	20	Orthopedic Surgery	18
25251	Removal of wrist prosth	20	Orthopedic Surgery	18
26185	Sesamoidectomy, thum	20	Orthopedic Surgery	18
26358	Repair or advancement,	20	Orthopedic Surgery	18
27889	Ankle disarticulation	20	Orthopedic Surgery	18
28345	Reconstruction, toe(s); s	20	Orthopedic Surgery	18
57288	Sling operation for stres	20	Orthopedic Surgery	18
61154	Burr hole(s) with evacua	20	Orthopedic Surgery	18
64823	Sympathectomy; superfi	20	Orthopedic Surgery	18
24420	Osteoplasty, humerus (e	20	Orthopedic Surgery	17
28103	Excision or curettage of	20	Orthopedic Surgery	17
29830	Arthroscopy, elbow, diag	20	Orthopedic Surgery	17
63281	Laminectomy for biopsy	20	Orthopedic Surgery	17
63282	Laminectomy for biopsy	20	Orthopedic Surgery	17
15931	Excision, sacral pressur	20	Orthopedic Surgery	16
20962	Bone graft with microvas	20	Orthopedic Surgery	16
26260	Radical resection, proxim	20	Orthopedic Surgery	16
27557	Open treatment of knee	20	Orthopedic Surgery	16
27830	Closed treatment of prox	20	Orthopedic Surgery	16
28226	Tenolysis, extensor, foo	20	Orthopedic Surgery	16
28436	Percutaneous skeletal fi	20	Orthopedic Surgery	16
29850	Arthroscopically aided tr	20	Orthopedic Surgery	16
63300	Vertebral corpectomy (v	20	Orthopedic Surgery	16

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15936	Excision, sacral pressur	20	Orthopedic Surgery	15
23146	Excision or curettage of	20	Orthopedic Surgery	15
27177	Open treatment of slipp	20	Orthopedic Surgery	15
44150	Colectomy, total, abdom	20	Orthopedic Surgery	15
47100	Biopsy of liver, wedge	20	Orthopedic Surgery	15
48153	Pancreatectomy, proxim	20	Orthopedic Surgery	15
63172	Laminectomy with drain	20	Orthopedic Surgery	15
63700	Repair of meningocele;	20	Orthopedic Surgery	15
22112	Partial excision of vert	20	Orthopedic Surgery	14
23170	Sequestrectomy (eg, for	20	Orthopedic Surgery	14
24155	Resection of elbow joint	20	Orthopedic Surgery	14
24320	Tenoplasty, with muscle	20	Orthopedic Surgery	14
25490	Prophylactic treatment (	20	Orthopedic Surgery	14
26262	Radical resection, distal	20	Orthopedic Surgery	14
27060	Excision; ischial bursa	20	Orthopedic Surgery	14
28576	Percutaneous skeletal fi	20	Orthopedic Surgery	14
29851	Arthroscopically aided tr	20	Orthopedic Surgery	14
38745	Axillary lymphadenectom	20	Orthopedic Surgery	14
43840	Gastrorrhaphy, suture or	20	Orthopedic Surgery	14
49000	Exploratory laparotomy,	20	Orthopedic Surgery	14
15610	Delay of flap or sectionir	20	Orthopedic Surgery	13
27067	Excision of bone cyst or	20	Orthopedic Surgery	13
28106	Excision or curettage of	20	Orthopedic Surgery	13
28175	Radical resection of tum	20	Orthopedic Surgery	13
32900	Resection of ribs, extrap	20	Orthopedic Surgery	13
49507	Repair initial inguinal he	20	Orthopedic Surgery	13
50547	Laparoscopy, surgical; c	20	Orthopedic Surgery	13
61512	Craniectomy, trephinatic	20	Orthopedic Surgery	13
63271	Laminectomy for excisio	20	Orthopedic Surgery	13
63275	Laminectomy for biopsy,	20	Orthopedic Surgery	13
63278	Laminectomy for biopsy,	20	Orthopedic Surgery	13
15335	Acellular dermal allograf	20	Orthopedic Surgery	12
19260	Excision of chest wall tu	20	Orthopedic Surgery	12
21600	Excision of rib, partial	20	Orthopedic Surgery	12
25365	Osteotomy; radius AND	20	Orthopedic Surgery	12
25443	Arthroplasty with prosthe	20	Orthopedic Surgery	12
25909	Amputation, forearm, thi	20	Orthopedic Surgery	12
26250	Radical resection, metac	20	Orthopedic Surgery	12
26517	Capsulodesis, metacarp	20	Orthopedic Surgery	12
27147	Osteotomy, iliac, acetab	20	Orthopedic Surgery	12
27284	Arthrodesis, hip joint (inc	20	Orthopedic Surgery	12
27485	Arrest, hemiepiphyseal,	20	Orthopedic Surgery	12
28545	Closed treatment of tars	20	Orthopedic Surgery	12
47605	Cholecystectomy; with c	20	Orthopedic Surgery	12
15940	Excision, ischial pressur	20	Orthopedic Surgery	11
20910	Cartilage graft; costoch	20	Orthopedic Surgery	11
20920	Fascia lata graft; by strip	20	Orthopedic Surgery	11
25430	Insertion of vascular ped	20	Orthopedic Surgery	11
26373	Repair or advancement	20	Orthopedic Surgery	11
26479	Shortening of tendon, fle	20	Orthopedic Surgery	11
27326	Neurectomy, popliteal (g	20	Orthopedic Surgery	11
28055	Neurectomy, intrinsic m	20	Orthopedic Surgery	11

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44050	Reduction of volvulus, in	20	Orthopedic Surgery	11
44145	Colectomy, partial; with	20	Orthopedic Surgery	11
49520	Repair recurrent inguina	20	Orthopedic Surgery	11
15135	Dermal autograft, face, s	20	Orthopedic Surgery	11
23172	Sequestrectomy (eg, for	20	Orthopedic Surgery	10
23525	Closed treatment of ster	20	Orthopedic Surgery	10
24116	Excision or curettage of	20	Orthopedic Surgery	10
24136	Sequestrectomy (eg, for	20	Orthopedic Surgery	10
24920	Amputation, arm througl	20	Orthopedic Surgery	10
25355	Osteotomy, radius; midd	20	Orthopedic Surgery	10
25431	Repair of nonunion of ca	20	Orthopedic Surgery	10
26499	Correction claw finger, c	20	Orthopedic Surgery	10
27517	Closed treatment of dist	20	Orthopedic Surgery	10
27832	Open treatment of proxim	20	Orthopedic Surgery	10
29800	Arthroscopy, temporoma	20	Orthopedic Surgery	10
35903	Excision of infected graf	20	Orthopedic Surgery	10
45170	Excision of rectal tumor,	20	Orthopedic Surgery	10
63185	Laminectomy with rhizot	20	Orthopedic Surgery	10
64786	Excision of neuroma; sc	20	Orthopedic Surgery	10
64792	Excision of neurofibroma	20	Orthopedic Surgery	10
15572	Formation of direct or tu	20	Orthopedic Surgery	9
15757	Free skin flap with micro	20	Orthopedic Surgery	9
15956	Excision, trochanteric pr	20	Orthopedic Surgery	9
20664	Application of halo, inclu	20	Orthopedic Surgery	9
23802	Arthrodesis, glenohume	20	Orthopedic Surgery	9
24566	Percutaneous skeletal fi	20	Orthopedic Surgery	9
24930	Amputation, arm througl	20	Orthopedic Surgery	9
25316	Flexor origin slide (eg, fo	20	Orthopedic Surgery	9
26205	Excision or curettage of	20	Orthopedic Surgery	9
26550	Pollicization of a digit	20	Orthopedic Surgery	9
26568	Osteoplasty, lengthening	20	Orthopedic Surgery	9
27286	Arthrodesis, hip joint (inc	20	Orthopedic Surgery	9
27325	Neurectomy, hamstring	20	Orthopedic Surgery	9
27396	Transplant, hamstring te	20	Orthopedic Surgery	9
28107	Excision or curettage of	20	Orthopedic Surgery	9
32124	Thoracotomy, major; wit	20	Orthopedic Surgery	9
44160	Colectomy, partial, with	20	Orthopedic Surgery	9
46040	Incision and drainage of	20	Orthopedic Surgery	9
49060	Drainage of retroperiton	20	Orthopedic Surgery	9
49587	Repair umbilical hernia,	20	Orthopedic Surgery	9
50020	Drainage of perirenal or	20	Orthopedic Surgery	9
58260	Vaginal hysterectomy, fo	20	Orthopedic Surgery	9
61343	Craniectomy, suboccipit	20	Orthopedic Surgery	9
61885	Insertion or replacement	20	Orthopedic Surgery	9
63302	Vertebral corpectomy (v	20	Orthopedic Surgery	9
64575	Incision for implantation	20	Orthopedic Surgery	9
15150	Tissue cultured epiderm	20	Orthopedic Surgery	8
15933	Excision, sacral pressur	20	Orthopedic Surgery	8
20822	Replantation, digit, exclu	20	Orthopedic Surgery	8
21810	Treatment of rib fracture	20	Orthopedic Surgery	8
23155	Excision or curettage of	20	Orthopedic Surgery	8
23532	Open treatment of stern	20	Orthopedic Surgery	8

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24126	Excision or curettage of	20	Orthopedic Surgery	8
25441	Arthroplasty with prosth	20	Orthopedic Surgery	8
25905	Amputation, forearm, thi	20	Orthopedic Surgery	8
25907	Amputation, forearm, thi	20	Orthopedic Surgery	8
27050	Arthrotomy, with biopsy;	20	Orthopedic Surgery	8
27098	Transfer, adductor to isc	20	Orthopedic Surgery	8
27497	Decompression fascioto	20	Orthopedic Surgery	8
27727	Repair of congenital pse	20	Orthopedic Surgery	8
31020	Sinusotomy, maxillary (a	20	Orthopedic Surgery	8
43632	Gastrectomy, partial, dis	20	Orthopedic Surgery	8
44146	Colectomy, partial; with	20	Orthopedic Surgery	8
44970	Laparoscopy, surgical, a	20	Orthopedic Surgery	8
49020	Drainage of peritoneal a	20	Orthopedic Surgery	8
50546	Laparoscopy, surgical; r	20	Orthopedic Surgery	8
57260	Combined anteroposteri	20	Orthopedic Surgery	8
58150	Total abdominal hystere	20	Orthopedic Surgery	8
63741	Creation of shunt, lumba	20	Orthopedic Surgery	8
64573	Incision for implantation	20	Orthopedic Surgery	8
11960	Insertion of tissue expan	20	Orthopedic Surgery	7
15920	Excision, coccygeal pres	20	Orthopedic Surgery	7
15941	Excision, ischial pressur	20	Orthopedic Surgery	7
15945	Excision, ischial pressur	20	Orthopedic Surgery	7
15951	Excision, trochanteric pr	20	Orthopedic Surgery	7
22819	Kyphectomy, circumfere	20	Orthopedic Surgery	7
23400	Scapulopexy (eg, Spreng	20	Orthopedic Surgery	7
24800	Arthrodesis, elbow joint;	20	Orthopedic Surgery	7
25125	Excision or curettage of	20	Orthopedic Surgery	7
25394	Osteoplasty, carpal bone	20	Orthopedic Surgery	7
26428	Repair of extensor tend	20	Orthopedic Surgery	7
26518	Capsulodesis, metacarp	20	Orthopedic Surgery	7
27077	Radical resection of tum	20	Orthopedic Surgery	7
35840	Exploration for postoper	20	Orthopedic Surgery	7
37620	Interruption, partial or c	20	Orthopedic Surgery	7
38760	Inguinofemoral lymphad	20	Orthopedic Surgery	7
43830	Gastrostomy, open; with	20	Orthopedic Surgery	7
43846	Gastric restrictive proce	20	Orthopedic Surgery	7
44180	Laparoscopy, surgical, e	20	Orthopedic Surgery	7
44204	Laparoscopy, surgical; c	20	Orthopedic Surgery	7
44626	Closure of enterostomy,	20	Orthopedic Surgery	7
44950	Appendectomy;	20	Orthopedic Surgery	7
46945	Ligation of internal hemo	20	Orthopedic Surgery	7
49002	Reopening of recent lap	20	Orthopedic Surgery	7
50590	Lithotripsy, extracorpore	20	Orthopedic Surgery	7
57250	Posterior colporrhaphy,	20	Orthopedic Surgery	7
61313	Craniectomy or cranioto	20	Orthopedic Surgery	7
63290	Laminectomy for biopsy,	20	Orthopedic Surgery	7
14060	Adjacent tissue transfer	20	Orthopedic Surgery	6
15360	Tissue cultured allogene	20	Orthopedic Surgery	6
15837	Excision, excessive skin	20	Orthopedic Surgery	6
15922	Excision, coccygeal pres	20	Orthopedic Surgery	6
15944	Excision, ischial pressur	20	Orthopedic Surgery	6
15958	Excision, trochanteric pr	20	Orthopedic Surgery	6

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16035	Escharotomy; initial incision	20	Orthopedic Surgery	6
19328	Removal of intact mammary	20	Orthopedic Surgery	6
20663	Application of halo, including	20	Orthopedic Surgery	6
20970	Free osteocutaneous flap	20	Orthopedic Surgery	6
24925	Amputation, arm through	20	Orthopedic Surgery	6
25929	Transmetacarpal amputation	20	Orthopedic Surgery	6
27111	Transfer iliopsoas; to femur	20	Orthopedic Surgery	6
27397	Transplant, hamstring tendon	20	Orthopedic Surgery	6
27412	Autologous chondrocyte	20	Orthopedic Surgery	6
27468	Osteoplasty, femur; correction	20	Orthopedic Surgery	6
28102	Excision or curettage of	20	Orthopedic Surgery	6
37785	Ligation, division, and/or	20	Orthopedic Surgery	6
44960	Appendectomy; for ruptured	20	Orthopedic Surgery	6
48140	Pancreatectomy, distal segment	20	Orthopedic Surgery	6
48554	Transplantation of pancreas	20	Orthopedic Surgery	6
49010	Exploration, retroperitoneum	20	Orthopedic Surgery	6
49566	Repair recurrent incisor	20	Orthopedic Surgery	6
63268	Laminectomy for excision	20	Orthopedic Surgery	6
64897	Nerve graft (includes oblique	20	Orthopedic Surgery	6
66982	Extracapsular cataract re	20	Orthopedic Surgery	6
77777	Interstitial radiation source	20	Orthopedic Surgery	6
15600	Delay of flap or sectioning	20	Orthopedic Surgery	5
15836	Excision, excessive skin	20	Orthopedic Surgery	5
19342	Delayed insertion of breast	20	Orthopedic Surgery	5
22319	Open treatment and/or repair	20	Orthopedic Surgery	5
22900	Excision, abdominal wall	20	Orthopedic Surgery	5
23530	Open treatment of sternum	20	Orthopedic Surgery	5
23921	Disarticulation of shoulder	20	Orthopedic Surgery	5
24151	Radical resection for tumor	20	Orthopedic Surgery	5
24802	Arthrodesis, elbow joint;	20	Orthopedic Surgery	5
25931	Transmetacarpal amputation	20	Orthopedic Surgery	5
26555	Transfer, finger to another	20	Orthopedic Surgery	5
26560	Repair of syndactyly (web	20	Orthopedic Surgery	5
27079	Radical resection of tumor	20	Orthopedic Surgery	5
27105	Transfer paraspinal muscle	20	Orthopedic Surgery	5
27282	Arthrodesis, symphysis	20	Orthopedic Surgery	5
27831	Closed treatment of proximal	20	Orthopedic Surgery	5
29901	Arthroscopy, metacarpoph	20	Orthopedic Surgery	5
34111	Embolectomy or thrombolysis	20	Orthopedic Surgery	5
34802	Endovascular repair of ilio	20	Orthopedic Surgery	5
34825	Placement of proximal cath	20	Orthopedic Surgery	5
35190	Repair, acquired or traumatic	20	Orthopedic Surgery	5
35201	Repair blood vessel, direct	20	Orthopedic Surgery	5
35221	Repair blood vessel, direct	20	Orthopedic Surgery	5
35371	Thromboendarterectomy	20	Orthopedic Surgery	5
37735	Ligation and division and	20	Orthopedic Surgery	5
43832	Gastrostomy, open; with	20	Orthopedic Surgery	5
46255	Hemorrhoidectomy, internal	20	Orthopedic Surgery	5
46261	Hemorrhoidectomy, internal	20	Orthopedic Surgery	5
47135	Liver allotransplantation	20	Orthopedic Surgery	5
47300	Marsupialization of cyst	20	Orthopedic Surgery	5
47361	Management of liver he	20	Orthopedic Surgery	5

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49550	Repair initial femoral he	20	Orthopedic Surgery	5
49553	Repair initial femoral he	20	Orthopedic Surgery	5
57240	Anterior colporrhaphy, re	20	Orthopedic Surgery	5
61315	Craniectomy or cranioto	20	Orthopedic Surgery	5
62140	Cranioplasty for skull de	20	Orthopedic Surgery	5
62292	Injection procedure for c	20	Orthopedic Surgery	5
44130	Enteroenterostomy, ana	20	Orthopedic Surgery	5
15731	Forehead flap with prese	20	Orthopedic Surgery	4
11971	Removal of tissue expan	20	Orthopedic Surgery	4
15650	Transfer, intermediate, c	20	Orthopedic Surgery	4
15839	Excision, excessive skin	20	Orthopedic Surgery	4
15934	Excision, sacral pressur	20	Orthopedic Surgery	4
19316	Mastopexy	20	Orthopedic Surgery	4
20150	Excision of epiphyseal b	20	Orthopedic Surgery	4
21100	Application of halo type	20	Orthopedic Surgery	4
21805	Open treatment of rib fra	20	Orthopedic Surgery	4
24100	Arthrotomy, elbow; with	20	Orthopedic Surgery	4
25136	Excision or curettage of	20	Orthopedic Surgery	4
25444	Arthroplasty with prosthe	20	Orthopedic Surgery	4
25491	Prophylactic treatment (	20	Orthopedic Surgery	4
26416	Removal of synthetic roc	20	Orthopedic Surgery	4
27175	Treatment of slipped fer	20	Orthopedic Surgery	4
27178	Open treatment of slippe	20	Orthopedic Surgery	4
28340	Reconstruction, toe, ma	20	Orthopedic Surgery	4
28531	Open treatment of sesar	20	Orthopedic Surgery	4
29868	Arthroscopy, knee, surg	20	Orthopedic Surgery	4
32905	Thoracoplasty, Schede f	20	Orthopedic Surgery	4
35286	Repair blood vessel with	20	Orthopedic Surgery	4
35656	Bypass graft, with other	20	Orthopedic Surgery	4
38100	Splenectomy; total (sepa	20	Orthopedic Surgery	4
39502	Repair, paraesophageal	20	Orthopedic Surgery	4
43280	Laparoscopy, surgical, e	20	Orthopedic Surgery	4
43820	Gastrojejunostomy; with	20	Orthopedic Surgery	4
44205	Laparoscopy, surgical; c	20	Orthopedic Surgery	4
44602	Suture of small intestine	20	Orthopedic Surgery	4
46947	Hemorrhoidopexy (eg, fo	20	Orthopedic Surgery	4
47120	Hepatectomy, resection	20	Orthopedic Surgery	4
47420	Choledochotomy or cho	20	Orthopedic Surgery	4
47780	Anastomosis, Roux-en-)	20	Orthopedic Surgery	4
60200	Excision of cyst or aden	20	Orthopedic Surgery	4
61518	Craniectomy for excision	20	Orthopedic Surgery	4
61539	Craniotomy with elevatic	20	Orthopedic Surgery	4
62143	Replacement of bone fla	20	Orthopedic Surgery	4
63270	Laminectomy for excisio	20	Orthopedic Surgery	4
63305	Vertebral corpectomy (v	20	Orthopedic Surgery	4
64716	Neuroplasty and/or trans	20	Orthopedic Surgery	4
64840	Suture of posterior tibial	20	Orthopedic Surgery	4
67316	Strabismus surgery, rec	20	Orthopedic Surgery	4
15155	Tissue cultured epiderm	20	Orthopedic Surgery	4
58552	Laparoscopy, surgical, v	20	Orthopedic Surgery	4
44320	Colostomy or skin level	20	Orthopedic Surgery	4
44187	Laparoscopy, surgical; il	20	Orthopedic Surgery	3

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11970	Replacement of tissue e	20	Orthopedic Surgery	3
15570	Formation of direct or tu	20	Orthopedic Surgery	3
15758	Free fascial flap with mic	20	Orthopedic Surgery	3
15833	Excision, excessive skin	20	Orthopedic Surgery	3
19300	Mastectomy for gynecor	20	Orthopedic Surgery	3
20969	Free osteocutaneous fla	20	Orthopedic Surgery	3
21015	Radical resection of tum	20	Orthopedic Surgery	3
21620	Ostectomy of sternum, p	20	Orthopedic Surgery	3
21627	Sternal debridement	20	Orthopedic Surgery	3
21720	Division of sternocleidor	20	Orthopedic Surgery	3
21825	Open treatment of stern	20	Orthopedic Surgery	3
23145	Excision or curettage of	20	Orthopedic Surgery	3
23490	Prophylactic treatment (	20	Orthopedic Surgery	3
24331	Flexor-plasty, elbow (eg	20	Orthopedic Surgery	3
25393	Osteoplasty, radius AND	20	Orthopedic Surgery	3
25924	Disarticulation through v	20	Orthopedic Surgery	3
26434	Repair of extensor tende	20	Orthopedic Surgery	3
26561	Repair of syndactyly (we	20	Orthopedic Surgery	3
26590	Repair macrodactylia, e	20	Orthopedic Surgery	3
27202	Open treatment of coccy	20	Orthopedic Surgery	3
27730	Arrest, epiphyseal (epi	20	Orthopedic Surgery	3
28171	Radical resection of tum	20	Orthopedic Surgery	3
32100	Thoracotomy, major; wit	20	Orthopedic Surgery	3
35372	Thromboendarterectomy	20	Orthopedic Surgery	3
35571	Bypass graft, with vein;	20	Orthopedic Surgery	3
35654	Bypass graft, with other	20	Orthopedic Surgery	3
36830	Creation of arteriovenou	20	Orthopedic Surgery	3
37607	Ligation or banding of ar	20	Orthopedic Surgery	3
38740	Axillary lymphadenector	20	Orthopedic Surgery	3
43324	Esophagogastric fundop	20	Orthopedic Surgery	3
43644	Laparoscopy, surgical, c	20	Orthopedic Surgery	3
44021	Enterotomy, small intest	20	Orthopedic Surgery	3
44141	Colectomy, partial; with	20	Orthopedic Surgery	3
44144	Colectomy, partial; with	20	Orthopedic Surgery	3
44207	Laparoscopy, surgical; c	20	Orthopedic Surgery	3
46946	Ligation of internal hemo	20	Orthopedic Surgery	3
47125	Hepatectomy, resection	20	Orthopedic Surgery	3
47350	Management of liver he	20	Orthopedic Surgery	3
47362	Management of liver he	20	Orthopedic Surgery	3
48100	Biopsy of pancreas, ope	20	Orthopedic Surgery	3
49565	Repair recurrent incision	20	Orthopedic Surgery	3
49590	Repair spigelian hernia	20	Orthopedic Surgery	3
49900	Suture, secondary, of ab	20	Orthopedic Surgery	3
50610	Ureterolithotomy; upper	20	Orthopedic Surgery	3
61458	Craniectomy, suboccipit	20	Orthopedic Surgery	3
61500	Craniectomy; with excisi	20	Orthopedic Surgery	3
61575	Transoral approach to s	20	Orthopedic Surgery	3
61697	Surgery of complex intra	20	Orthopedic Surgery	3
62010	Elevation of depressed s	20	Orthopedic Surgery	3
63200	Laminectomy, with relea	20	Orthopedic Surgery	3
63280	Laminectomy for biopsy,	20	Orthopedic Surgery	3
63283	Laminectomy for biopsy,	20	Orthopedic Surgery	3

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63287	Laminectomy for biopsy,	20	Orthopedic Surgery	3
63307	Vertebral corpectomy (v	20	Orthopedic Surgery	3
63704	Repair of myelomeningo	20	Orthopedic Surgery	3
63706	Repair of myelomeningo	20	Orthopedic Surgery	3
64818	Sympathectomy, lumbar	20	Orthopedic Surgery	3
32480	Removal of lung, other t	20	Orthopedic Surgery	3
38770	Pelvic lymphadenectom	20	Orthopedic Surgery	3
15732	Muscle, myocutaneous,	20	Orthopedic Surgery	3
64910	Nerve repair; with synthe	20	Orthopedic Surgery	2
64911	Nerve repair; with autog	20	Orthopedic Surgery	2
11771	Excision of pilonidal cys	20	Orthopedic Surgery	2
11772	Excision of pilonidal cys	20	Orthopedic Surgery	2
14061	Adjacent tissue transfer	20	Orthopedic Surgery	2
15935	Excision, sacral pressur	20	Orthopedic Surgery	2
15953	Excision, trochanteric pr	20	Orthopedic Surgery	2
19020	Mastotomy with explorat	20	Orthopedic Surgery	2
19271	Excision of chest wall tu	20	Orthopedic Surgery	2
19350	Nipple/areola reconstruc	20	Orthopedic Surgery	2
19357	Breast reconstruction, in	20	Orthopedic Surgery	2
19370	Open periprosthetic cap	20	Orthopedic Surgery	2
20827	Replantation, thumb (inc	20	Orthopedic Surgery	2
21030	Excision of benign tumo	20	Orthopedic Surgery	2
21110	Application of interdenta	20	Orthopedic Surgery	2
21407	Open treatment of fractu	20	Orthopedic Surgery	2
21630	Radical resection of ster	20	Orthopedic Surgery	2
21725	Division of sternocleidor	20	Orthopedic Surgery	2
23221	Radical resection of bon	20	Orthopedic Surgery	2
24125	Excision or curettage of	20	Orthopedic Surgery	2
24410	Multiple osteotomies wit	20	Orthopedic Surgery	2
25335	Centralization of wrist or	20	Orthopedic Surgery	2
25426	Repair of defect with aut	20	Orthopedic Surgery	2
26587	Reconstruction of polyda	20	Orthopedic Surgery	2
27181	Open treatment of slippe	20	Orthopedic Surgery	2
27732	Arrest, epiphyseal (epipl	20	Orthopedic Surgery	2
28341	Reconstruction, toe, ma	20	Orthopedic Surgery	2
29804	Arthroscopy, temporoma	20	Orthopedic Surgery	2
33214	Upgrade of implanted pa	20	Orthopedic Surgery	2
34203	Embolectomy or thromb	20	Orthopedic Surgery	2
35141	Direct repair of aneurysr	20	Orthopedic Surgery	2
35556	Bypass graft, with vein; t	20	Orthopedic Surgery	2
35585	In-situ vein bypass; fem	20	Orthopedic Surgery	2
35671	Bypass graft, with other	20	Orthopedic Surgery	2
35701	Exploration (not followe	20	Orthopedic Surgery	2
35820	Exploration for postoper	20	Orthopedic Surgery	2
37617	Ligation, major artery (e	20	Orthopedic Surgery	2
37718	Ligation, division, and st	20	Orthopedic Surgery	2
38542	Dissection, deep jugular	20	Orthopedic Surgery	2
38720	Cervical lymphadenecto	20	Orthopedic Surgery	2
38765	Inguinofemoral lymphad	20	Orthopedic Surgery	2
39560	Resection, diaphragm; v	20	Orthopedic Surgery	2
42415	Excision of parotid tumo	20	Orthopedic Surgery	2
42821	Tonsillectomy and aden	20	Orthopedic Surgery	2

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43640	Vagotomy including pylor	20	Orthopedic Surgery	2
43800	Pyloroplasty	20	Orthopedic Surgery	2
43848	Revision, open, of gastr	20	Orthopedic Surgery	2
44210	Laparoscopy, surgical; c	20	Orthopedic Surgery	2
44300	Placement, enterostomy	20	Orthopedic Surgery	2
44310	Ileostomy or jejunostom	20	Orthopedic Surgery	2
44604	Suture of large intestine	20	Orthopedic Surgery	2
45123	Proctectomy, partial, wit	20	Orthopedic Surgery	2
45560	Repair of rectocele (sep	20	Orthopedic Surgery	2
46200	Fissurectomy, with or wi	20	Orthopedic Surgery	2
46257	Hemorrhoidectomy, inte	20	Orthopedic Surgery	2
46260	Hemorrhoidectomy, inte	20	Orthopedic Surgery	2
46270	Surgical treatment of an	20	Orthopedic Surgery	2
46275	Surgical treatment of an	20	Orthopedic Surgery	2
46280	Surgical treatment of an	20	Orthopedic Surgery	2
47400	Hepaticotomy or hepatic	20	Orthopedic Surgery	2
47610	Cholecystectomy with ex	20	Orthopedic Surgery	2
47760	Anastomosis, of extrahe	20	Orthopedic Surgery	2
48150	Pancreatectomy, proxim	20	Orthopedic Surgery	2
49525	Repair inguinal hernia, s	20	Orthopedic Surgery	2
50220	Nephrectomy, including	20	Orthopedic Surgery	2
50543	Laparoscopy, surgical; p	20	Orthopedic Surgery	2
50825	Continent diversion, incl	20	Orthopedic Surgery	2
51050	Cystolithotomy, cystoton	20	Orthopedic Surgery	2
52648	Laser vaporization of pro	20	Orthopedic Surgery	2
55845	Prostatectomy, retropub	20	Orthopedic Surgery	2
57120	Colpocleisis (Le Fort typ	20	Orthopedic Surgery	2
57268	Repair of enterocele, va	20	Orthopedic Surgery	2
57280	Colpopexy, abdominal a	20	Orthopedic Surgery	2
57320	Closure of vesicovagina	20	Orthopedic Surgery	2
57520	Conization of cervix, wit	20	Orthopedic Surgery	2
58925	Ovarian cystectomy, uni	20	Orthopedic Surgery	2
60210	Partial thyroid lobectomy	20	Orthopedic Surgery	2
60220	Total thyroid lobectomy,	20	Orthopedic Surgery	2
60500	Parathyroidectomy or ex	20	Orthopedic Surgery	2
60540	Adrenalectomy, partial c	20	Orthopedic Surgery	2
61140	Burr hole(s) or trephine;	20	Orthopedic Surgery	2
61304	Craniectomy or cranioto	20	Orthopedic Surgery	2
61516	Craniectomy, trephinatic	20	Orthopedic Surgery	2
61519	Craniectomy for excision	20	Orthopedic Surgery	2
61520	Craniectomy for excision	20	Orthopedic Surgery	2
61531	Subdural implantation of	20	Orthopedic Surgery	2
61533	Craniotomy with elevatic	20	Orthopedic Surgery	2
61538	Craniotomy with elevatic	20	Orthopedic Surgery	2
61548	Hypophysectomy or exci	20	Orthopedic Surgery	2
61618	Secondary repair of dura	20	Orthopedic Surgery	2
61682	Surgery of intracranial a	20	Orthopedic Surgery	2
61751	Stereotactic biopsy, asp	20	Orthopedic Surgery	2
62142	Removal of bone flap or	20	Orthopedic Surgery	2
62230	Replacement or revisior	20	Orthopedic Surgery	2
62258	Removal of complete ce	20	Orthopedic Surgery	2
63273	Laminectomy for excisio	20	Orthopedic Surgery	2

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63286	Laminectomy for biopsy,	20	Orthopedic Surgery	2
63306	Vertebral corpectomy (v	20	Orthopedic Surgery	2
63702	Repair of meningocele;	20	Orthopedic Surgery	2
63740	Creation of shunt, lumba	20	Orthopedic Surgery	2
63744	Replacement, irrigation	20	Orthopedic Surgery	2
64771	Transection or avulsion	20	Orthopedic Surgery	2
64892	Nerve graft (includes ob	20	Orthopedic Surgery	2
64898	Nerve graft (includes ob	20	Orthopedic Surgery	2
67312	Strabismus surgery, rec	20	Orthopedic Surgery	2
44625	Closure of enterostomy,	20	Orthopedic Surgery	2
35637	Bypass graft, with other	20	Orthopedic Surgery	2
35638	Bypass graft, with other	20	Orthopedic Surgery	2
44227	Laparoscopy, surgical, c	20	Orthopedic Surgery	1
15830	Excision, excessive skin	20	Orthopedic Surgery	1
43772	Laparoscopy, surgical, c	20	Orthopedic Surgery	1
11450	Excision of skin and sub	20	Orthopedic Surgery	1
11470	Excision of skin and sub	20	Orthopedic Surgery	1
15630	Delay of flap or sectionir	20	Orthopedic Surgery	1
15760	Graft; composite (eg, ful	20	Orthopedic Surgery	1
15822	Blepharoplasty, upper e	20	Orthopedic Surgery	1
15823	Blepharoplasty, upper e	20	Orthopedic Surgery	1
15834	Excision, excessive skin	20	Orthopedic Surgery	1
15842	Graft for facial nerve par	20	Orthopedic Surgery	1
15845	Graft for facial nerve par	20	Orthopedic Surgery	1
15952	Excision, trochanteric pr	20	Orthopedic Surgery	1
17106	Destruction of cutaneou	20	Orthopedic Surgery	1
19318	Reduction mammoplast	20	Orthopedic Surgery	1
19325	Mammoplasty, augment	20	Orthopedic Surgery	1
19366	Breast reconstruction wi	20	Orthopedic Surgery	1
19367	Breast reconstruction wi	20	Orthopedic Surgery	1
19380	Revision of reconstructe	20	Orthopedic Surgery	1
20662	Application of halo, inclu	20	Orthopedic Surgery	1
20805	Replantation, forearm (in	20	Orthopedic Surgery	1
20808	Replantation, hand (incl	20	Orthopedic Surgery	1
20816	Replantation, digit, exclu	20	Orthopedic Surgery	1
20824	Replantation, thumb (inc	20	Orthopedic Surgery	1
20957	Bone graft with microvas	20	Orthopedic Surgery	1
21010	Arthrotomy, temporoma	20	Orthopedic Surgery	1
21026	Excision of bone (eg, for	20	Orthopedic Surgery	1
21060	Meniscectomy, partial or	20	Orthopedic Surgery	1
21089	Unlisted maxillofacial pr	20	Orthopedic Surgery	1
21244	Reconstruction of mand	20	Orthopedic Surgery	1
21245	Reconstruction of mand	20	Orthopedic Surgery	1
21255	Reconstruction of zygom	20	Orthopedic Surgery	1
21325	Open treatment of nasal	20	Orthopedic Surgery	1
21337	Closed treatment of nas	20	Orthopedic Surgery	1
21338	Open treatment of naso	20	Orthopedic Surgery	1
21340	Percutaneous treatment	20	Orthopedic Surgery	1
21343	Open treatment of depre	20	Orthopedic Surgery	1
21390	Open treatment of orbita	20	Orthopedic Surgery	1
21433	Open treatment of crani	20	Orthopedic Surgery	1
21450	Closed treatment of ma	20	Orthopedic Surgery	1

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21465	Open treatment of mand	20	Orthopedic Surgery	1
21497	Interdental wiring, for co	20	Orthopedic Surgery	1
21700	Division of scalenus ant	20	Orthopedic Surgery	1
21740	Reconstructive repair of	20	Orthopedic Surgery	1
21750	Closure of median stern	20	Orthopedic Surgery	1
24152	Radical resection for tur	20	Orthopedic Surgery	1
24935	Stump elongation, uppe	20	Orthopedic Surgery	1
25370	Multiple osteotomies, wi	20	Orthopedic Surgery	1
25375	Multiple osteotomies, wi	20	Orthopedic Surgery	1
25392	Osteoplasty, radius AND	20	Orthopedic Surgery	1
25455	Epiphyseal arrest by epi	20	Orthopedic Surgery	1
25922	Disarticulation through v	20	Orthopedic Surgery	1
26255	Radical resection, metac	20	Orthopedic Surgery	1
26261	Radical resection, proxim	20	Orthopedic Surgery	1
26553	Transfer, toe-to-hand wi	20	Orthopedic Surgery	1
27035	Denervation, hip joint, in	20	Orthopedic Surgery	1
27158	Osteotomy, pelvis, bilate	20	Orthopedic Surgery	1
27185	Epiphyseal arrest by epi	20	Orthopedic Surgery	1
27259	Open treatment of spon	20	Orthopedic Surgery	1
27475	Arrest, epiphyseal, any r	20	Orthopedic Surgery	1
27479	Arrest, epiphyseal, any r	20	Orthopedic Surgery	1
27734	Arrest, epiphyseal (epi	20	Orthopedic Surgery	1
27740	Arrest, epiphyseal (epi	20	Orthopedic Surgery	1
29900	Arthroscopy, metacarp	20	Orthopedic Surgery	1
30160	Rhinectomy; total	20	Orthopedic Surgery	1
30520	Septoplasty or submucco	20	Orthopedic Surgery	1
31205	Ethmoidectomy; extrana	20	Orthopedic Surgery	1
31588	Laryngoplasty, not other	20	Orthopedic Surgery	1
32110	Thoracotomy, major; wit	20	Orthopedic Surgery	1
32140	Thoracotomy, major; wit	20	Orthopedic Surgery	1
32320	Decortication and pariet	20	Orthopedic Surgery	1
32500	Removal of lung, other t	20	Orthopedic Surgery	1
32664	Thoracoscopy, surgical;	20	Orthopedic Surgery	1
33025	Creation of pericardial w	20	Orthopedic Surgery	1
33213	Insertion or replacemen	20	Orthopedic Surgery	1
33410	Replacement, aortic valv	20	Orthopedic Surgery	1
33820	Repair of patent ductus	20	Orthopedic Surgery	1
33860	Ascending aorta graft, w	20	Orthopedic Surgery	1
33863	Ascending aorta graft, w	20	Orthopedic Surgery	1
33870	Transverse arch graft, w	20	Orthopedic Surgery	1
34101	Embolectomy or thromb	20	Orthopedic Surgery	1
34421	Thrombectomy, direct o	20	Orthopedic Surgery	1
34520	Cross-over vein graft to	20	Orthopedic Surgery	1
35011	Direct repair of aneurysr	20	Orthopedic Surgery	1
35102	Direct repair of aneurysr	20	Orthopedic Surgery	1
35151	Direct repair of aneurysr	20	Orthopedic Surgery	1
35152	Direct repair of aneurysr	20	Orthopedic Surgery	1
35231	Repair blood vessel with	20	Orthopedic Surgery	1
35256	Repair blood vessel with	20	Orthopedic Surgery	1
35281	Repair blood vessel with	20	Orthopedic Surgery	1
35351	Thromboendarterectomy	20	Orthopedic Surgery	1
35583	In-situ vein bypass; fem	20	Orthopedic Surgery	1

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35606	Bypass graft, with other	20	Orthopedic Surgery	1
35876	Thrombectomy of arteria	20	Orthopedic Surgery	1
35901	Excision of infected graf	20	Orthopedic Surgery	1
36819	Arteriovenous anastomc	20	Orthopedic Surgery	1
36833	Revision, open, arteriove	20	Orthopedic Surgery	1
37600	Ligation; external carotic	20	Orthopedic Surgery	1
37650	Ligation of femoral vein	20	Orthopedic Surgery	1
37660	Ligation of common iliac	20	Orthopedic Surgery	1
37700	Ligation and division of il	20	Orthopedic Surgery	1
37760	Ligation of perforator ve	20	Orthopedic Surgery	1
38120	Laparoscopy, surgical, s	20	Orthopedic Surgery	1
38308	Lymphangiomy or othe	20	Orthopedic Surgery	1
38520	Biopsy or excision of lym	20	Orthopedic Surgery	1
38550	Excision of cystic hydror	20	Orthopedic Surgery	1
38562	Limited lymphadenector	20	Orthopedic Surgery	1
38564	Limited lymphadenector	20	Orthopedic Surgery	1
39000	Mediastinotomy with exp	20	Orthopedic Surgery	1
39501	Repair, laceration of dia	20	Orthopedic Surgery	1
39530	Repair, diaphragmatic h	20	Orthopedic Surgery	1
39541	Repair, diaphragmatic h	20	Orthopedic Surgery	1
42305	Drainage of abscess; pa	20	Orthopedic Surgery	1
42420	Excision of parotid tumo	20	Orthopedic Surgery	1
42950	Pharyngoplasty (plastic	20	Orthopedic Surgery	1
42953	Pharyngoesophageal re	20	Orthopedic Surgery	1
43020	Esophagotomy, cervical	20	Orthopedic Surgery	1
43122	Partial esophagectomy,	20	Orthopedic Surgery	1
43130	Diverticulectomy of hypc	20	Orthopedic Surgery	1
43510	Gastrotomy; with esoph	20	Orthopedic Surgery	1
43610	Excision, local; ulcer or l	20	Orthopedic Surgery	1
43631	Gastrectomy, partial, dis	20	Orthopedic Surgery	1
43653	Laparoscopy, surgical; g	20	Orthopedic Surgery	1
44020	Enterotomy, small intest	20	Orthopedic Surgery	1
44055	Correction of malrotation	20	Orthopedic Surgery	1
44110	Excision of one or more	20	Orthopedic Surgery	1
44125	Enterectomy, resection e	20	Orthopedic Surgery	1
44155	Colectomy, total, abdom	20	Orthopedic Surgery	1
44202	Laparoscopy, surgical; e	20	Orthopedic Surgery	1
44206	Laparoscopy, surgical; c	20	Orthopedic Surgery	1
44314	Revision of ileostomy; co	20	Orthopedic Surgery	1
44345	Revision of colostomy; c	20	Orthopedic Surgery	1
44346	Revision of colostomy; v	20	Orthopedic Surgery	1
44603	Suture of small intestine	20	Orthopedic Surgery	1
44605	Suture of large intestine	20	Orthopedic Surgery	1
44615	Intestinal stricturoplasty	20	Orthopedic Surgery	1
44620	Closure of enterostomy,	20	Orthopedic Surgery	1
44640	Closure of intestinal cuta	20	Orthopedic Surgery	1
45111	Proctectomy; partial res	20	Orthopedic Surgery	1
45400	Laparoscopy, surgical; p	20	Orthopedic Surgery	1
46750	Sphincteroplasty, anal, f	20	Orthopedic Surgery	1
47122	Hepatectomy, resection	20	Orthopedic Surgery	1
47370	Laparoscopy, surgical, a	20	Orthopedic Surgery	1
47380	Ablation, open, of one o	20	Orthopedic Surgery	1

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47480	Cholecystotomy or chole	20	Orthopedic Surgery	1
47490	Percutaneous cholecyst	20	Orthopedic Surgery	1
47511	Introduction of percutane	20	Orthopedic Surgery	1
47564	Laparoscopy, surgical; c	20	Orthopedic Surgery	1
47630	Biliary duct stone extrac	20	Orthopedic Surgery	1
47785	Anastomosis, Roux-en-Y	20	Orthopedic Surgery	1
48001	Placement of drains, pe	20	Orthopedic Surgery	1
48152	Pancreatectomy, proxim	20	Orthopedic Surgery	1
48154	Pancreatectomy, proxim	20	Orthopedic Surgery	1
48155	Pancreatectomy, total	20	Orthopedic Surgery	1
48520	Internal anastomosis of	20	Orthopedic Surgery	1
48545	Pancreatorrhaphy for inj	20	Orthopedic Surgery	1
48556	Removal of transplanted	20	Orthopedic Surgery	1
49040	Drainage of subdiaphrag	20	Orthopedic Surgery	1
49323	Laparoscopy, surgical; v	20	Orthopedic Surgery	1
49402	Removal of peritoneal fo	20	Orthopedic Surgery	1
49421	Insertion of intraperitone	20	Orthopedic Surgery	1
49570	Repair epigastric hernia	20	Orthopedic Surgery	1
49572	Repair epigastric hernia	20	Orthopedic Surgery	1
49650	Laparoscopy, surgical; r	20	Orthopedic Surgery	1
49651	Laparoscopy, surgical; r	20	Orthopedic Surgery	1
50205	Renal biopsy; by surgica	20	Orthopedic Surgery	1
50225	Nephrectomy, including	20	Orthopedic Surgery	1
50230	Nephrectomy, including	20	Orthopedic Surgery	1
50280	Excision or unroofing of	20	Orthopedic Surgery	1
50525	Closure of nephroviscer	20	Orthopedic Surgery	1
50650	Ureterectomy, with blad	20	Orthopedic Surgery	1
50700	Ureteroplasty, plastic op	20	Orthopedic Surgery	1
50715	Ureterolysis, with or with	20	Orthopedic Surgery	1
50780	Ureteroneocystostomy; r	20	Orthopedic Surgery	1
50820	Ureteroileal conduit (ilea	20	Orthopedic Surgery	1
51030	Cystotomy or cystostom	20	Orthopedic Surgery	1
51040	Cystostomy, cystotomy v	20	Orthopedic Surgery	1
51045	Cystotomy, with insertio	20	Orthopedic Surgery	1
51550	Cystectomy, partial; sim	20	Orthopedic Surgery	1
51555	Cystectomy, partial; com	20	Orthopedic Surgery	1
51865	Cystorrhaphy, suture of	20	Orthopedic Surgery	1
52450	Transurethral incision of	20	Orthopedic Surgery	1
53415	Urethroplasty, transpubi	20	Orthopedic Surgery	1
53446	Removal of inflatable ur	20	Orthopedic Surgery	1
55040	Excision of hydrocele; u	20	Orthopedic Surgery	1
55120	Removal of foreign body	20	Orthopedic Surgery	1
55530	Excision of varicocele or	20	Orthopedic Surgery	1
55821	Prostatectomy (including	20	Orthopedic Surgery	1
55842	Prostatectomy, retropub	20	Orthopedic Surgery	1
56630	Vulvectomy, radical, par	20	Orthopedic Surgery	1
57106	Vaginectomy, partial ren	20	Orthopedic Surgery	1
57155	Insertion of uterine tand	20	Orthopedic Surgery	1
57200	Colporrhaphy, suture of	20	Orthopedic Surgery	1
57265	Combined anteroposteri	20	Orthopedic Surgery	1
57282	Colpopexy, vaginal; extr	20	Orthopedic Surgery	1
57284	Paravaginal defect repa	20	Orthopedic Surgery	1

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57287	Removal or revision of s	20	Orthopedic Surgery	1
58200	Total abdominal hystere	20	Orthopedic Surgery	1
58700	Salpingectomy, complet	20	Orthopedic Surgery	1
58720	Salpingo-oophorectomy	20	Orthopedic Surgery	1
58940	Oophorectomy, partial o	20	Orthopedic Surgery	1
59130	Surgical treatment of ec	20	Orthopedic Surgery	1
60240	Thyroidectomy, total or c	20	Orthopedic Surgery	1
60252	Thyroidectomy, total or s	20	Orthopedic Surgery	1
60545	Adrenalectomy, partial c	20	Orthopedic Surgery	1
61120	Burr hole(s) for ventricul	20	Orthopedic Surgery	1
61215	Insertion of subcutaneous	20	Orthopedic Surgery	1
61320	Craniectomy or cranioto	20	Orthopedic Surgery	1
61536	Craniotomy with elevatic	20	Orthopedic Surgery	1
61545	Craniotomy with elevatic	20	Orthopedic Surgery	1
61566	Craniotomy with elevatic	20	Orthopedic Surgery	1
61583	Craniofacial approach to	20	Orthopedic Surgery	1
61601	Resection or excision of	20	Orthopedic Surgery	1
61616	Resection or excision of	20	Orthopedic Surgery	1
61692	Surgery of intracranial a	20	Orthopedic Surgery	1
61700	Surgery of simple intrac	20	Orthopedic Surgery	1
61702	Surgery of simple intrac	20	Orthopedic Surgery	1
61750	Stereotactic biopsy, asp	20	Orthopedic Surgery	1
61790	Creation of lesion by ste	20	Orthopedic Surgery	1
61850	Twist drill or burr hole(s)	20	Orthopedic Surgery	1
61867	Twist drill, burr hole, cra	20	Orthopedic Surgery	1
61880	Revision or removal of in	20	Orthopedic Surgery	1
62147	Cranioplasty with autogr	20	Orthopedic Surgery	1
62192	Creation of shunt; subar	20	Orthopedic Surgery	1
62220	Creation of shunt; ventri	20	Orthopedic Surgery	1
62256	Removal of complete ce	20	Orthopedic Surgery	1
63180	Laminectomy and sectic	20	Orthopedic Surgery	1
63600	Creation of lesion of spi	20	Orthopedic Surgery	1
63615	Stereotactic biopsy, asp	20	Orthopedic Surgery	1
64744	Transection or avulsion	20	Orthopedic Surgery	1
64760	Transection or avulsion	20	Orthopedic Surgery	1
64858	Suture of sciatic nerve	20	Orthopedic Surgery	1
64861	Suture of; brachial plexu	20	Orthopedic Surgery	1
64893	Nerve graft (includes ob	20	Orthopedic Surgery	1
65125	Modification of ocular im	20	Orthopedic Surgery	1
66762	Iridoplasty by photocoag	20	Orthopedic Surgery	1
66825	Repositioning of intraocu	20	Orthopedic Surgery	1
66986	Exchange of intraocular	20	Orthopedic Surgery	1
67015	Aspiration or release of	20	Orthopedic Surgery	1
67105	Repair of retinal detachm	20	Orthopedic Surgery	1
67220	Destruction of localized	20	Orthopedic Surgery	1
67311	Strabismus surgery, rec	20	Orthopedic Surgery	1
67314	Strabismus surgery, rec	20	Orthopedic Surgery	1
67880	Construction of intermar	20	Orthopedic Surgery	1
67900	Repair of brow ptosis (s	20	Orthopedic Surgery	1
67908	Repair of blepharoptosis	20	Orthopedic Surgery	1
58957	Resection (tumor debulk	20	Orthopedic Surgery	1
58550	Laparoscopy, surgical, v	20	Orthopedic Surgery	1

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36870	Thrombectomy, percuta	20	Orthopedic Surgery	1	
49255	Omentectomy, epiploec	20	Orthopedic Surgery	1	
43845	Gastric restrictive proce	20	Orthopedic Surgery	1	
45110	Proctectomy; complete,	20	Orthopedic Surgery	1	
45550	Proctopexy (eg, for prola	20	Orthopedic Surgery	1	
35302	Thromboendarterectomy	20	Orthopedic Surgery	1	
35303	Thromboendarterectomy	20	Orthopedic Surgery	1	
35304	Thromboendarterectomy	20	Orthopedic Surgery	1	
35305	Thromboendarterectomy	20	Orthopedic Surgery	1	
45119	Proctectomy, combined	20	Orthopedic Surgery	1	
44188	Laparoscopy, surgical, c	20	Orthopedic Surgery	0	
45397	Laparoscopy, surgical; p	20	Orthopedic Surgery	0	
45395	Laparoscopy, surgical; p	20	Orthopedic Surgery	0	
45402	Laparoscopy, surgical; p	20	Orthopedic Surgery	0	
35883	Revision, femoral anaste	20	Orthopedic Surgery	0	
35884	Revision, femoral anaste	20	Orthopedic Surgery	0	
58548	Laparoscopy, surgical, v	20	Orthopedic Surgery	0	
58542	Laparoscopy, surgical, s	20	Orthopedic Surgery	0	
58541	Laparoscopy, surgical, s	20	Orthopedic Surgery	0	
58958	Resection (tumor debulk	20	Orthopedic Surgery	0	
32504	Resection of apical lung	20	Orthopedic Surgery	0	
32503	Resection of apical lung	20	Orthopedic Surgery	0	
43770	Laparoscopy, surgical, g	20	Orthopedic Surgery	0	
43771	Laparoscopy, surgical, g	20	Orthopedic Surgery	0	
43773	Laparoscopy, surgical, g	20	Orthopedic Surgery	0	
43774	Laparoscopy, surgical, g	20	Orthopedic Surgery	0	
43886	Gastric restrictive proce	20	Orthopedic Surgery	0	
43887	Gastric restrictive proce	20	Orthopedic Surgery	0	
43888	Gastric restrictive proce	20	Orthopedic Surgery	0	
46710	Repair of ileoanal pouch	20	Orthopedic Surgery	0	
46712	Repair of ileoanal pouch	20	Orthopedic Surgery	0	2,228,998
30520	Septoplasty or submuco	04	Otolaryngology	18,752	
30140	Submucous resection in	04	Otolaryngology	14,016	
14060	Adjacent tissue transfer	04	Otolaryngology	11,955	
14040	Adjacent tissue transfer	04	Otolaryngology	7,334	
42415	Excision of parotid tumo	04	Otolaryngology	4,898	
15260	Full thickness graft, free	04	Otolaryngology	4,613	
60220	Total thyroid lobectomy,	04	Otolaryngology	4,408	
38724	Cervical lymphadenecto	04	Otolaryngology	4,252	
30130	Excision inferior turbinat	04	Otolaryngology	3,643	
69801	Labyrinthotomy, with or	04	Otolaryngology	3,378	
60240	Thyroidectomy, total or c	04	Otolaryngology	2,857	
60500	Parathyroidectomy or ex	04	Otolaryngology	2,768	
14041	Adjacent tissue transfer	04	Otolaryngology	2,641	
69631	Tympanoplasty without r	04	Otolaryngology	2,620	
42826	Tonsillectomy, primary c	04	Otolaryngology	2,500	
42145	Palatopharyngoplasty (e	04	Otolaryngology	2,389	
42440	Excision of submandibu	04	Otolaryngology	2,288	
69145	Excision soft tissue lesio	04	Otolaryngology	2,002	
30117	Excision or destruction (	04	Otolaryngology	1,825	
42420	Excision of parotid tumo	04	Otolaryngology	1,746	
41112	Excision of lesion of ton	04	Otolaryngology	1,723	

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21556	Excision tumor, soft tiss	04	Otolaryngology	1,701
15120	Split-thickness autograft	04	Otolaryngology	1,663
69930	Cochlear device implant	04	Otolaryngology	1,495
31610	Tracheostomy, fenestra	04	Otolaryngology	1,371
66984	Extracapsular cataract r	04	Otolaryngology	1,371
41120	Glossectomy; less than	04	Otolaryngology	1,359
14061	Adjacent tissue transfer	04	Otolaryngology	1,358
21235	Graft; ear cartilage, aut	04	Otolaryngology	1,263
31588	Laryngoplasty, not other	04	Otolaryngology	1,243
20926	Tissue grafts, other (eg,	04	Otolaryngology	1,209
15731	Forehead flap with prese	04	Otolaryngology	1,165
69110	Excision external ear; pa	04	Otolaryngology	1,162
21501	Incision and drainage, d	04	Otolaryngology	1,088
60200	Excision of cyst or aden	04	Otolaryngology	1,028
14020	Adjacent tissue transfer	04	Otolaryngology	1,016
31611	Construction of tracheoe	04	Otolaryngology	954
30115	Excision, nasal polyp(s)	04	Otolaryngology	942
69440	Middle ear exploration th	04	Otolaryngology	938
43130	Diverticulectomy of hypc	04	Otolaryngology	911
14300	Adjacent tissue transfer	04	Otolaryngology	886
30465	Repair of nasal vestibula	04	Otolaryngology	859
41116	Excision, lesion of floor	04	Otolaryngology	844
15240	Full thickness graft, free	04	Otolaryngology	837
15823	Blepharoplasty, upper e	04	Otolaryngology	823
21555	Excision tumor, soft tiss	04	Otolaryngology	781
31613	Tracheostoma revision;	04	Otolaryngology	773
43030	Cricopharyngeal myoton	04	Otolaryngology	773
42410	Excision of parotid tumo	04	Otolaryngology	725
69310	Reconstruction of exterr	04	Otolaryngology	719
38700	Suprahyoid lymphadene	04	Otolaryngology	718
69641	Tympanoplasty with mas	04	Otolaryngology	696
69660	Stapedectomy or staped	04	Otolaryngology	696
31225	Maxillectomy; without or	04	Otolaryngology	688
38720	Cervical lymphadenecto	04	Otolaryngology	687
31360	Laryngectomy; total, wit	04	Otolaryngology	682
15576	Formation of direct or tu	04	Otolaryngology	681
15732	Muscle, myocutaneous,	04	Otolaryngology	679
38542	Dissection, deep jugular	04	Otolaryngology	675
60271	Thyroidectomy, includin	04	Otolaryngology	617
69643	Tympanoplasty with mas	04	Otolaryngology	615
69620	Myringoplasty (surgery c	04	Otolaryngology	610
21015	Radical resection of tum	04	Otolaryngology	606
61548	Hypophysectomy or exc	04	Otolaryngology	606
14021	Adjacent tissue transfer	04	Otolaryngology	601
40520	Excision of lip; V-excis	04	Otolaryngology	588
60260	Thyroidectomy, removal	04	Otolaryngology	587
60210	Partial thyroid lobectom	04	Otolaryngology	565
15100	Split-thickness autograft	04	Otolaryngology	543
66821	Discission of secondary	04	Otolaryngology	539
40510	Excision of lip; transvers	04	Otolaryngology	535
15630	Delay of flap or sectionir	04	Otolaryngology	530
15770	Graft; derma-fat-fascia	04	Otolaryngology	522

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15115	Epidermal autograft, fac	04	Otolaryngology	518
60225	Total thyroid lobectomy,	04	Otolaryngology	502
42140	Uvulectomy, excision of	04	Otolaryngology	499
69633	Tympanoplasty without r	04	Otolaryngology	490
42426	Excision of parotid tumo	04	Otolaryngology	470
60252	Thyroidectomy, total or s	04	Otolaryngology	462
21557	Radical resection of tum	04	Otolaryngology	449
69714	Implantation, osseointeg	04	Otolaryngology	438
31030	Sinusotomy, maxillary (a	04	Otolaryngology	434
31365	Laryngectomy; total, with	04	Otolaryngology	433
42120	Resection of palate or e	04	Otolaryngology	432
15574	Formation of direct or tu	04	Otolaryngology	425
15335	Acellular dermal allograf	04	Otolaryngology	422
21335	Open treatment of nasal	04	Otolaryngology	421
41155	Glossectomy; composite	04	Otolaryngology	413
61885	Insertion or replacement	04	Otolaryngology	410
40814	Excision of lesion of mu	04	Otolaryngology	393
15734	Muscle, myocutaneous,	04	Otolaryngology	377
41113	Excision of lesion of ton	04	Otolaryngology	374
42335	Sialolithotomy; submand	04	Otolaryngology	364
69644	Tympanoplasty with mas	04	Otolaryngology	362
31020	Sinusotomy, maxillary (a	04	Otolaryngology	350
42821	Tonsillectomy and aden	04	Otolaryngology	350
64573	Incision for implantation	04	Otolaryngology	350
69632	Tympanoplasty without r	04	Otolaryngology	344
69645	Tympanoplasty with mas	04	Otolaryngology	339
31614	Tracheostoma revision;	04	Otolaryngology	337
31032	Sinusotomy, maxillary (a	04	Otolaryngology	336
15220	Full thickness graft, free	04	Otolaryngology	332
20912	Cartilage graft; nasal se	04	Otolaryngology	332
67900	Repair of brow ptosis (s	04	Otolaryngology	329
69450	Tympanolysis, transcant	04	Otolaryngology	328
15757	Free skin flap with micro	04	Otolaryngology	311
40816	Excision of lesion of mu	04	Otolaryngology	304
30420	Rhinoplasty, primary; inc	04	Otolaryngology	291
31090	Sinusotomy, unilateral, t	04	Otolaryngology	287
41135	Glossectomy; partial, wi	04	Otolaryngology	287
42890	Limited pharyngectomy	04	Otolaryngology	287
60280	Excision of thyroglossal	04	Otolaryngology	287
41130	Glossectomy; hemigloss	04	Otolaryngology	278
14000	Adjacent tissue transfer	04	Otolaryngology	275
69646	Tympanoplasty with mas	04	Otolaryngology	259
42842	Radical resection of tons	04	Otolaryngology	256
14001	Adjacent tissue transfer	04	Otolaryngology	253
42831	Adenoidectomy, primary	04	Otolaryngology	251
69642	Tympanoplasty with mas	04	Otolaryngology	250
61605	Resection or excision of	04	Otolaryngology	249
31825	Surgical closure tracheo	04	Otolaryngology	248
42950	Pharyngoplasty (plastic	04	Otolaryngology	244
21244	Reconstruction of mand	04	Otolaryngology	241
67912	Correction of lagophthal	04	Otolaryngology	241
31820	Surgical closure tracheo	04	Otolaryngology	240

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30150	Rhinectomy; partial	04	Otolaryngology	239
35800	Exploration for postoper	04	Otolaryngology	237
41150	Glossectomy; composite	04	Otolaryngology	231
69502	Mastoidectomy; comple	04	Otolaryngology	225
15620	Delay of flap or sectionir	04	Otolaryngology	220
15740	Flap; island pedicle	04	Otolaryngology	220
69150	Radical excision externa	04	Otolaryngology	220
20680	Removal of implant; dee	04	Otolaryngology	212
31070	Sinusotomy frontal; exte	04	Otolaryngology	211
42425	Excision of parotid tumo	04	Otolaryngology	210
69635	Tympanoplasty with ant	04	Otolaryngology	209
21365	Open treatment of comp	04	Otolaryngology	208
20969	Free osteocutaneous fla	04	Otolaryngology	206
30118	Excision or destruction (	04	Otolaryngology	206
69662	Revision of stapedectom	04	Otolaryngology	205
15430	Acellular xenograft imple	04	Otolaryngology	204
35701	Exploration (not followe	04	Otolaryngology	204
40500	Vermilionectomy (lip sha	04	Otolaryngology	201
21044	Excision of malignant tu	04	Otolaryngology	197
69120	Excision external ear; co	04	Otolaryngology	197
67904	Repair of blepharoptosis	04	Otolaryngology	195
21045	Excision of malignant tu	04	Otolaryngology	192
68720	Dacryocystorhinostomy	04	Otolaryngology	185
21025	Excision of bone (eg, fo	04	Otolaryngology	183
64716	Neuroplasty and/or trans	04	Otolaryngology	182
30630	Repair nasal septal perf	04	Otolaryngology	181
31201	Ethmoidectomy; intranas	04	Otolaryngology	180
15760	Graft; composite (eg, ful	04	Otolaryngology	177
69535	Resection temporal bon	04	Otolaryngology	177
63047	Laminectomy, facetecto	04	Otolaryngology	176
60254	Thyroidectomy, total or s	04	Otolaryngology	174
21390	Open treatment of orbita	04	Otolaryngology	173
40525	Excision of lip; full thickr	04	Otolaryngology	173
42815	Excision branchial cleft c	04	Otolaryngology	172
17106	Destruction of cutaneous	04	Otolaryngology	170
67950	Canthoplasty (reconstru	04	Otolaryngology	170
67917	Repair of ectropion; exte	04	Otolaryngology	166
15756	Free muscle or myocuta	04	Otolaryngology	164
21026	Excision of bone (eg, fo	04	Otolaryngology	162
21337	Closed treatment of nas	04	Otolaryngology	157
69806	Endolymphatic sac oper	04	Otolaryngology	156
15822	Blepharoplasty, upper e	04	Otolaryngology	154
22554	Arthrodesis, anterior inte	04	Otolaryngology	152
63075	Discectomy, anterior, wi	04	Otolaryngology	152
42953	Pharyngoesophageal re	04	Otolaryngology	149
30920	Ligation arteries; interna	04	Otolaryngology	146
61595	Transtemporal approach	04	Otolaryngology	146
69661	Stapedectomy or staped	04	Otolaryngology	144
42870	Excision or destruction l	04	Otolaryngology	143
15175	Acellular dermal replace	04	Otolaryngology	142
69140	Excision exostosis(es), e	04	Otolaryngology	142
15840	Graft for facial nerve pa	04	Otolaryngology	139

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38520	Biopsy or excision of lymph node	04	Otolaryngology	139
41153	Glossectomy; composite	04	Otolaryngology	138
30915	Ligation arteries; ethmoid	04	Otolaryngology	134
42892	Resection of lateral pharynx	04	Otolaryngology	134
61793	Stereotactic radiosurgery	04	Otolaryngology	133
31750	Tracheoplasty; cervical	04	Otolaryngology	132
42962	Control oropharyngeal hypoxia	04	Otolaryngology	130
61590	Infratemporal pre-auricular	04	Otolaryngology	128
15758	Free fascial flap with microvascular	04	Otolaryngology	127
60502	Parathyroidectomy or excision	04	Otolaryngology	127
31200	Ethmoidectomy; intranasal	04	Otolaryngology	126
42305	Drainage of abscess; paranasal	04	Otolaryngology	124
15320	Allograft skin for temporalis	04	Otolaryngology	119
31300	Laryngotomy (thyrotomy)	04	Otolaryngology	119
69666	Repair oval window fistula	04	Otolaryngology	119
41114	Excision of lesion of tonsil	04	Otolaryngology	118
62165	Neuroendoscopy, intracranial	04	Otolaryngology	118
42500	Plastic repair of salivary gland	04	Otolaryngology	116
31582	Laryngoplasty; for laryngeal	04	Otolaryngology	115
61618	Secondary repair of dura	04	Otolaryngology	114
61616	Resection or excision of dura	04	Otolaryngology	113
21685	Hyoid myotomy and suspension	04	Otolaryngology	112
61600	Resection or excision of dura	04	Otolaryngology	109
40530	Resection of lip, more than	04	Otolaryngology	108
30620	Septal or other intranasal	04	Otolaryngology	106
69720	Decompression facial nerve	04	Otolaryngology	106
21034	Excision of malignant tumor	04	Otolaryngology	105
69667	Repair round window fistula	04	Otolaryngology	105
30120	Excision or surgical plan	04	Otolaryngology	104
31830	Revision of tracheostomy	04	Otolaryngology	102
62140	Cranioplasty for skull defect	04	Otolaryngology	102
31050	Sinusotomy, sphenoid, vidua	04	Otolaryngology	101
69636	Tympanoplasty with anterior	04	Otolaryngology	101
21336	Open treatment of nasal	04	Otolaryngology	99
40654	Repair lip, full thickness	04	Otolaryngology	98
61580	Craniofacial approach to	04	Otolaryngology	98
21470	Open treatment of compound	04	Otolaryngology	96
31205	Ethmoidectomy; extranasal	04	Otolaryngology	96
69637	Tympanoplasty with anterior	04	Otolaryngology	95
31390	Pharyngolaryngectomy,	04	Otolaryngology	94
42450	Excision of sublingual gland	04	Otolaryngology	91
60270	Thyroidectomy, including	04	Otolaryngology	91
69505	Mastoidectomy; modified	04	Otolaryngology	90
31367	Laryngectomy; subtotal	04	Otolaryngology	87
42107	Excision, lesion of palate	04	Otolaryngology	87
30580	Repair fistula; oromaxillary	04	Otolaryngology	86
31780	Excision tracheal stenosis	04	Otolaryngology	86
31400	Arytenoidectomy or arytenoid	04	Otolaryngology	85
31785	Excision of tracheal tumor	04	Otolaryngology	85
64722	Decompression; unspecified	04	Otolaryngology	85
15135	Dermal autograft, face, scalp	04	Otolaryngology	84
21199	Osteotomy, mandible, surgical	04	Otolaryngology	83

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31075	Sinusotomy frontal; tran	04	Otolaryngology	82
42408	Excision of sublingual sa	04	Otolaryngology	81
13160	Secondary closure of su	04	Otolaryngology	79
42961	Control oropharyngeal h	04	Otolaryngology	78
61591	Infratemporal post-auric	04	Otolaryngology	78
69910	Labyrinthectomy; with m	04	Otolaryngology	78
41827	Excision of lesion or tum	04	Otolaryngology	77
43305	Esophagoplasty (plastic	04	Otolaryngology	77
31051	Sinusotomy, sphenoid, v	04	Otolaryngology	76
42894	Resection of pharyngeal	04	Otolaryngology	75
21198	Osteotomy, mandible, se	04	Otolaryngology	74
15750	Flap; neurovascular ped	04	Otolaryngology	73
42844	Radical resection of tons	04	Otolaryngology	73
42860	Excision of tonsil tags	04	Otolaryngology	73
64864	Suture of facial nerve; e	04	Otolaryngology	73
42340	Sialolithotomy; parotid, e	04	Otolaryngology	72
15200	Full thickness graft, free	04	Otolaryngology	71
17107	Destruction of cutaneous	04	Otolaryngology	70
21461	Open treatment of mand	04	Otolaryngology	70
60212	Partial thyroid lobectomy	04	Otolaryngology	70
69550	Excision aural glomus tu	04	Otolaryngology	70
21196	Reconstruction of mand	04	Otolaryngology	69
69511	Mastoidectomy; radical	04	Otolaryngology	69
21330	Open treatment of nasal	04	Otolaryngology	67
69602	Revision mastoidectomy	04	Otolaryngology	67
31040	Pterygomaxillary fossa s	04	Otolaryngology	66
42725	Incision and drainage ab	04	Otolaryngology	66
64885	Nerve graft (includes ob	04	Otolaryngology	66
21453	Closed treatment of mar	04	Otolaryngology	65
31395	Pharyngolaryngectomy,	04	Otolaryngology	65
67916	Repair of ectropion; exc	04	Otolaryngology	65
69670	Mastoid obliteration (sep	04	Otolaryngology	64
15781	Dermabrasion; segment	04	Otolaryngology	63
42505	Plastic repair of salivary	04	Otolaryngology	62
64886	Nerve graft (includes ob	04	Otolaryngology	61
69603	Revision mastoidectomy	04	Otolaryngology	61
40818	Excision of mucosa of v	04	Otolaryngology	60
69601	Revision mastoidectomy	04	Otolaryngology	60
15838	Excision, excessive skin	04	Otolaryngology	59
47563	Laparoscopy, surgical; c	04	Otolaryngology	59
21210	Graft, bone; nasal, maxi	04	Otolaryngology	58
31085	Sinusotomy frontal; oblit	04	Otolaryngology	58
31230	Maxillectomy; with orbita	04	Otolaryngology	58
22612	Arthrodesis, posterior or	04	Otolaryngology	57
66761	Iridotomy/iridectomy by	04	Otolaryngology	57
69805	Endolymphatic sac oper	04	Otolaryngology	57
31370	Partial laryngectomy (he	04	Otolaryngology	55
61500	Craniectomy; with excisi	04	Otolaryngology	55
15155	Tissue cultured epiderm	04	Otolaryngology	54
20955	Bone graft with microvas	04	Otolaryngology	54
21462	Open treatment of mand	04	Otolaryngology	52
30160	Rhinectomy; total	04	Otolaryngology	52

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66982	Extracapsular cataract r	04	Otolaryngology	52
69501	Transmastoid antrotomy	04	Otolaryngology	52
20900	Bone graft, any donor ar	04	Otolaryngology	51
30450	Rhinoplasty, secondary;	04	Otolaryngology	51
27447	Arthroplasty, knee, cond	04	Otolaryngology	50
61520	Craniectomy for excision	04	Otolaryngology	50
40527	Excision of lip; full thickr	04	Otolaryngology	49
67961	Excision and repair of ey	04	Otolaryngology	49
69604	Revision mastoidectomy	04	Otolaryngology	49
21407	Open treatment of fractu	04	Otolaryngology	48
21422	Open treatment of palat	04	Otolaryngology	48
31375	Partial laryngectomy (he	04	Otolaryngology	48
35201	Repair blood vessel, dire	04	Otolaryngology	48
42845	Radical resection of tons	04	Otolaryngology	48
47562	Laparoscopy, surgical; c	04	Otolaryngology	48
21360	Open treatment of depre	04	Otolaryngology	47
42409	Marsupialization of subli	04	Otolaryngology	47
61596	Transcochlear approach	04	Otolaryngology	47
69650	Stapes mobilization	04	Otolaryngology	47
42810	Excision branchial cleft c	04	Otolaryngology	46
30125	Excision dermoid cyst, n	04	Otolaryngology	45
31368	Laryngectomy; subtotal	04	Otolaryngology	45
61581	Craniofacial approach to	04	Otolaryngology	45
15839	Excision, excessive skin	04	Otolaryngology	44
30400	Rhinoplasty, primary; lat	04	Otolaryngology	43
42970	Control of nasopharynge	04	Otolaryngology	43
62100	Craniotomy for repair of	04	Otolaryngology	43
21030	Excision of benign tumo	04	Otolaryngology	42
31580	Laryngoplasty; for laryng	04	Otolaryngology	42
37600	Ligation; external carotid	04	Otolaryngology	42
40845	Vestibuloplasty; complex	04	Otolaryngology	42
21040	Excision of benign tumo	04	Otolaryngology	41
35761	Exploration (not followe	04	Otolaryngology	41
38305	Drainage of lymph node	04	Otolaryngology	40
39220	Excision of mediastinal t	04	Otolaryngology	40
60600	Excision of carotid body	04	Otolaryngology	40
63030	Laminotomy (hemilamin	04	Otolaryngology	40
69552	Excision aural glomus tu	04	Otolaryngology	40
20910	Cartilage graft; costoch	04	Otolaryngology	39
21047	Excision of benign tumo	04	Otolaryngology	39
31380	Partial laryngectomy (he	04	Otolaryngology	39
61615	Resection or excision of	04	Otolaryngology	39
67880	Construction of intermar	04	Otolaryngology	39
31420	Epiglottidectomy	04	Otolaryngology	38
30124	Excision dermoid cyst, n	04	Otolaryngology	37
17108	Destruction of cutaneous	04	Otolaryngology	36
61526	Craniectomy, bone flap	04	Otolaryngology	36
30430	Rhinoplasty, secondary;	04	Otolaryngology	35
31382	Partial laryngectomy (he	04	Otolaryngology	35
61575	Transoral approach to s	04	Otolaryngology	35
20922	Fascia lata graft; by inc	04	Otolaryngology	34
21282	Lateral canthopexy	04	Otolaryngology	34

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69320	Reconstruction external	04	Otolaryngology	34
20902	Bone graft, any donor ar	04	Otolaryngology	33
31800	Suture of tracheal woun	04	Otolaryngology	33
41145	Glossectomy; complete	04	Otolaryngology	32
67914	Repair of ectropion; sutu	04	Otolaryngology	32
69970	Removal of tumor, temp	04	Otolaryngology	32
15650	Transfer, intermediate, c	04	Otolaryngology	31
21325	Open treatment of nasal	04	Otolaryngology	31
21347	Open treatment of naso	04	Otolaryngology	31
49505	Repair initial inguinal he	04	Otolaryngology	31
60520	Thymectomy, partial or t	04	Otolaryngology	31
64771	Transection or avulsion	04	Otolaryngology	31
67210	Destruction of localized	04	Otolaryngology	31
38380	Suture and/or ligation of	04	Otolaryngology	30
67911	Correction of lid retracti	04	Otolaryngology	30
67924	Repair of entropion; exte	04	Otolaryngology	30
21423	Open treatment of palat	04	Otolaryngology	29
31084	Sinusotomy frontal; oblit	04	Otolaryngology	29
31595	Section recurrent laryng	04	Otolaryngology	29
40652	Repair lip, full thickness	04	Otolaryngology	29
61606	Resection or excision of	04	Otolaryngology	29
66170	Fistulization of sclera fo	04	Otolaryngology	29
35301	Thromboendarterectomy	04	Otolaryngology	28
40650	Repair lip, full thickness	04	Otolaryngology	28
41009	Intraoral incision and dra	04	Otolaryngology	28
43100	Excision of lesion, esopl	04	Otolaryngology	28
60505	Parathyroidectomy or ex	04	Otolaryngology	28
62141	Cranioplasty for skull de	04	Otolaryngology	28
21245	Reconstruction of mand	04	Otolaryngology	27
21406	Open treatment of fractu	04	Otolaryngology	27
37565	Ligation, internal jugular	04	Otolaryngology	27
41140	Glossectomy; complete	04	Otolaryngology	27
42971	Control of nasopharynge	04	Otolaryngology	27
64788	Excision of neurofibroma	04	Otolaryngology	27
30410	Rhinoplasty, primary; co	04	Otolaryngology	26
31755	Tracheoplasty; tracheop	04	Otolaryngology	26
61607	Resection or excision of	04	Otolaryngology	26
61619	Secondary repair of dura	04	Otolaryngology	26
67400	Orbitotomy without bone	04	Otolaryngology	26
69530	Petrous apicectomy incl	04	Otolaryngology	26
37615	Ligation, major artery (e	04	Otolaryngology	25
40819	Excision of frenum, labia	04	Otolaryngology	25
43300	Esophagoplasty (plastic	04	Otolaryngology	25
49560	Repair initial incisional o	04	Otolaryngology	25
67412	Orbitotomy without bone	04	Otolaryngology	25
67966	Excision and repair of ey	04	Otolaryngology	25
69155	Radical excision externa	04	Otolaryngology	25
15572	Formation of direct or tu	04	Otolaryngology	24
21208	Osteoplasty, facial bone	04	Otolaryngology	24
21386	Open treatment of orbita	04	Otolaryngology	24
30600	Repair fistula; oronasal	04	Otolaryngology	24
31587	Laryngoplasty, cricoid sp	04	Otolaryngology	24

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61601	Resection or excision of	04	Otolaryngology	24
21346	Open treatment of naso	04	Otolaryngology	23
42836	Adenoidectomy, second	04	Otolaryngology	23
62120	Repair of encephalocele	04	Otolaryngology	23
63081	Vertebral corpectomy (v	04	Otolaryngology	23
21387	Open treatment of orbita	04	Otolaryngology	22
40840	Vestibuloplasty; anterior	04	Otolaryngology	22
41520	Frenoplasty (surgical rev	04	Otolaryngology	22
67405	Orbitotomy without bone	04	Otolaryngology	22
67923	Repair of entropion; exc	04	Otolaryngology	22
68750	Conjunctivorhinostomy (	04	Otolaryngology	22
15600	Delay of flap or sectionir	04	Otolaryngology	21
21049	Excision of benign tumo	04	Otolaryngology	21
21930	Excision, tumor, soft tiss	04	Otolaryngology	21
39000	Mediastinotomy with exp	04	Otolaryngology	21
41008	Intraoral incision and dra	04	Otolaryngology	21
41016	Extraoral incision and dr	04	Otolaryngology	21
41874	Alveoloplasty, each qua	04	Otolaryngology	21
42820	Tonsillectomy and aden	04	Otolaryngology	21
42955	Pharyngostomy (fistuliza	04	Otolaryngology	21
43420	Closure of esophagosto	04	Otolaryngology	21
67921	Repair of entropion; sutu	04	Otolaryngology	21
15420	Xenograft skin (dermal),	04	Otolaryngology	20
20920	Fascia lata graft; by strip	04	Otolaryngology	20
21048	Excision of benign tumo	04	Otolaryngology	19
61592	Orbitocranial zygomatic	04	Otolaryngology	19
19307	Mastectomy, modified ra	04	Otolaryngology	18
21344	Open treatment of comp	04	Otolaryngology	18
21385	Open treatment of orbita	04	Otolaryngology	18
64868	Anastomosis; facial-hyp	04	Otolaryngology	18
67228	Treatment of extensive c	04	Otolaryngology	18
67414	Orbitotomy without bone	04	Otolaryngology	18
69905	Labyrinthectomy; transc	04	Otolaryngology	18
15110	Epidermal autograft, tru	04	Otolaryngology	17
15330	Acellular dermal allograf	04	Otolaryngology	17
21230	Graft; rib cartilage, auto	04	Otolaryngology	17
31081	Sinusotomy frontal; oblit	04	Otolaryngology	17
61304	Craniectomy or cranioto	04	Otolaryngology	17
64721	Neuroplasty and/or trans	04	Otolaryngology	17
67901	Repair of blepharoptosis	04	Otolaryngology	17
69802	Labyrinthotomy, with or	04	Otolaryngology	17
15845	Graft for facial nerve par	04	Otolaryngology	16
21046	Excision of benign tumo	04	Otolaryngology	16
21400	Closed treatment of frac	04	Otolaryngology	16
42600	Closure salivary fistula	04	Otolaryngology	16
61583	Craniofacial approach to	04	Otolaryngology	16
64774	Excision of neuroma; cu	04	Otolaryngology	16
64865	Suture of facial nerve; ir	04	Otolaryngology	16
65110	Exenteration of orbit (do	04	Otolaryngology	16
15130	Dermal autograft, trunk,	04	Otolaryngology	15
27130	Arthroplasty, acetabular	04	Otolaryngology	15
30540	Repair choanal atresia;	04	Otolaryngology	15

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31087	Sinusotomy frontal; non	04	Otolaryngology	15
31584	Laryngoplasty; with open	04	Otolaryngology	15
38555	Excision of cystic hygroma	04	Otolaryngology	15
41017	Extraoral incision and dr	04	Otolaryngology	15
42972	Control of nasopharynge	04	Otolaryngology	15
43830	Gastrostomy, open; with	04	Otolaryngology	15
44140	Colectomy, partial; with	04	Otolaryngology	15
62121	Craniotomy for repair of	04	Otolaryngology	15
66250	Revision or repair of open	04	Otolaryngology	15
11960	Insertion of tissue expan	04	Otolaryngology	14
15610	Delay of flap or sectionin	04	Otolaryngology	14
43124	Total or partial esophage	04	Otolaryngology	14
43410	Suture of esophageal we	04	Otolaryngology	14
60281	Excision of thyroglossal	04	Otolaryngology	14
69725	Decompression facial ne	04	Otolaryngology	14
21029	Removal by contouring c	04	Otolaryngology	13
31080	Sinusotomy frontal; oblit	04	Otolaryngology	13
31086	Sinusotomy frontal; non	04	Otolaryngology	13
38525	Biopsy or excision of lym	04	Otolaryngology	13
42200	Palatoplasty for cleft pal	04	Otolaryngology	13
61598	Transpetrosal approach	04	Otolaryngology	13
64790	Excision of neurofibroma	04	Otolaryngology	13
64792	Excision of neurofibroma	04	Otolaryngology	13
15050	Pinch graft, single or mu	04	Otolaryngology	12
15300	Allograft skin for tempor	04	Otolaryngology	12
15788	Chemical peel, facial; ep	04	Otolaryngology	12
21032	Excision of maxillary tor	04	Otolaryngology	12
21070	Coronoidectomy (separa	04	Otolaryngology	12
21084	Impression and custom	04	Otolaryngology	12
21343	Open treatment of depre	04	Otolaryngology	12
61510	Craniectomy, trephinic	04	Otolaryngology	12
61608	Resection or excision of	04	Otolaryngology	12
69915	Vestibular nerve section	04	Otolaryngology	12
69960	Decompression internal	04	Otolaryngology	12
15365	Tissue cultured allogene	04	Otolaryngology	11
15841	Graft for facial nerve pa	04	Otolaryngology	11
19318	Reduction mammoplast	04	Otolaryngology	11
37605	Ligation; internal or com	04	Otolaryngology	11
38308	Lymphangiectomy or othe	04	Otolaryngology	11
61501	Craniectomy; for osteom	04	Otolaryngology	11
61530	Craniectomy, bone flap	04	Otolaryngology	11
69700	Closure postauricular fis	04	Otolaryngology	11
21031	Excision of torus mandib	04	Otolaryngology	10
21050	Condylectomy, temporo	04	Otolaryngology	10
21172	Reconstruction superior	04	Otolaryngology	10
21188	Reconstruction midface	04	Otolaryngology	10
21215	Graft, bone; mandible (in	04	Otolaryngology	10
22110	Partial excision of verteb	04	Otolaryngology	10
41006	Intraoral incision and dr	04	Otolaryngology	10
41018	Extraoral incision and dr	04	Otolaryngology	10
42226	Lengthening of palate, a	04	Otolaryngology	10
43020	Esophagotomy, cervical	04	Otolaryngology	10

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43107	Total or near total esoph	04	Otolaryngology	10
43116	Partial esophagectomy,	04	Otolaryngology	10
44145	Colectomy, partial; with	04	Otolaryngology	10
62142	Removal of bone flap or	04	Otolaryngology	10
62146	Cranioplasty with autogr	04	Otolaryngology	10
65112	Exenteration of orbit (do	04	Otolaryngology	10
67145	Prophylaxis of retinal de	04	Otolaryngology	10
67550	Orbital implant (implant	04	Otolaryngology	10
15570	Formation of direct or tu	04	Otolaryngology	9
15820	Blepharoplasty, lower ey	04	Otolaryngology	9
19120	Excision of cyst, fibroad	04	Otolaryngology	9
21110	Application of interdenta	04	Otolaryngology	9
21421	Closed treatment of pala	04	Otolaryngology	9
21433	Open treatment of crani	04	Otolaryngology	9
21445	Open treatment of mand	04	Otolaryngology	9
21485	Closed treatment of tem	04	Otolaryngology	9
22855	Removal of anterior inst	04	Otolaryngology	9
28285	Correction, hammertoe	04	Otolaryngology	9
43352	Esophagostomy, fistuliza	04	Otolaryngology	9
44143	Colectomy, partial; with	04	Otolaryngology	9
61460	Craniectomy, suboccipit	04	Otolaryngology	9
64742	Transection or avulsion	04	Otolaryngology	9
69676	Tympanic neurectomy	04	Otolaryngology	9
69711	Removal or repair of ele	04	Otolaryngology	9
69715	Implantation, osseointeg	04	Otolaryngology	9
15936	Excision, sacral pressur	04	Otolaryngology	8
21280	Medial canthopexy (sep	04	Otolaryngology	8
21451	Closed treatment of mar	04	Otolaryngology	8
35231	Repair blood vessel with	04	Otolaryngology	8
35820	Exploration for postoper	04	Otolaryngology	8
35876	Thrombectomy of arteria	04	Otolaryngology	8
41007	Intraoral incision and dra	04	Otolaryngology	8
42225	Palatoplasty for cleft pal	04	Otolaryngology	8
42235	Repair of anterior palate	04	Otolaryngology	8
42665	Ligation salivary duct, in	04	Otolaryngology	8
43280	Laparoscopy, surgical, e	04	Otolaryngology	8
44120	Enterectomy, resection o	04	Otolaryngology	8
47600	Cholecystectomy;	04	Otolaryngology	8
58150	Total abdominal hyster	04	Otolaryngology	8
61585	Orbitocranial approach t	04	Otolaryngology	8
67903	Repair of blepharoptosis	04	Otolaryngology	8
69554	Excision aural glomus tu	04	Otolaryngology	8
69717	Replacement (including	04	Otolaryngology	8
69955	Total facial nerve decon	04	Otolaryngology	8
15150	Tissue cultured epiderm	04	Otolaryngology	8
11971	Removal of tissue expar	04	Otolaryngology	7
15738	Muscle, myocutaneous,	04	Otolaryngology	7
21120	Genioplasty; augmentat	04	Otolaryngology	7
21182	Reconstruction of orbita	04	Otolaryngology	7
21194	Reconstruction of mand	04	Otolaryngology	7
21246	Reconstruction of mand	04	Otolaryngology	7
21454	Open treatment of mand	04	Otolaryngology	7

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25490	Prophylactic treatment (04	Otolaryngology	7
30435	Rhinoplasty, secondary;	04	Otolaryngology	7
44160	Colectomy, partial, with	04	Otolaryngology	7
49561	Repair initial incisional o	04	Otolaryngology	7
60605	Excision of carotid body	04	Otolaryngology	7
61582	Craniofacial approach to	04	Otolaryngology	7
62223	Creation of shunt; ventri	04	Otolaryngology	7
63042	Laminotomy (hemilamin	04	Otolaryngology	7
64734	Transection or avulsion	04	Otolaryngology	7
67420	Orbitotomy with bone fla	04	Otolaryngology	7
67445	Orbitotomy with bone fla	04	Otolaryngology	7
67971	Reconstruction of eyelid	04	Otolaryngology	7
68520	Excision of lacrimal sac	04	Otolaryngology	7
11450	Excision of skin and sub	04	Otolaryngology	6
15821	Blepharoplasty, lower ey	04	Otolaryngology	6
19371	Periprosthetic capsulect	04	Otolaryngology	6
21179	Reconstruction, entire o	04	Otolaryngology	6
21240	Arthroplasty, temporoma	04	Otolaryngology	6
21256	Reconstruction of orbit v	04	Otolaryngology	6
21338	Open treatment of naso	04	Otolaryngology	6
21432	Open treatment of crani	04	Otolaryngology	6
21502	Incision and drainage, d	04	Otolaryngology	6
21510	Incision, deep, with oper	04	Otolaryngology	6
25515	Open treatment of radia	04	Otolaryngology	6
26160	Excision of lesion of ten	04	Otolaryngology	6
28470	Closed treatment of met	04	Otolaryngology	6
30320	Removal foreign body, in	04	Otolaryngology	6
31320	Laryngotomy (thyrotomy	04	Otolaryngology	6
31590	Laryngeal reinnervation	04	Otolaryngology	6
42507	Parotid duct diversion, b	04	Otolaryngology	6
42510	Parotid duct diversion, b	04	Otolaryngology	6
42825	Tonsillectomy, primary c	04	Otolaryngology	6
44005	Enterolysis (freeing of in	04	Otolaryngology	6
44205	Laparoscopy, surgical; c	04	Otolaryngology	6
49585	Repair umbilical hernia,	04	Otolaryngology	6
61584	Orbitocranial approach t	04	Otolaryngology	6
61586	Bicoronal, transzygomat	04	Otolaryngology	6
62143	Replacement of bone fla	04	Otolaryngology	6
63707	Repair of dural/cerebro	04	Otolaryngology	6
64732	Transection or avulsion	04	Otolaryngology	6
65114	Exenteration of orbit (do	04	Otolaryngology	6
67413	Orbitotomy without bone	04	Otolaryngology	6
69718	Replacement (including	04	Otolaryngology	6
69740	Suture facial nerve, intra	04	Otolaryngology	6
69820	Fenestration semicircula	04	Otolaryngology	6
15736	Muscle, myocutaneous,	04	Otolaryngology	5
20962	Bone graft with microvas	04	Otolaryngology	5
20970	Free osteocutaneous fla	04	Otolaryngology	5
21339	Open treatment of naso	04	Otolaryngology	5
21450	Closed treatment of ma	04	Otolaryngology	5
22010	Incision and drainage, o	04	Otolaryngology	5
22100	Partial excision of poste	04	Otolaryngology	5

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22830	Exploration of spinal fus	04	Otolaryngology	5
22852	Removal of posterior se	04	Otolaryngology	5
23120	Claviclectomy; partial	04	Otolaryngology	5
24152	Radical resection for tur	04	Otolaryngology	5
27618	Excision, tumor, leg or a	04	Otolaryngology	5
27786	Closed treatment of dist	04	Otolaryngology	5
28606	Percutaneous skeletal fi	04	Otolaryngology	5
30460	Rhinoplasty for nasal de	04	Otolaryngology	5
30462	Rhinoplasty for nasal de	04	Otolaryngology	5
31781	Excision tracheal stenosis	04	Otolaryngology	5
35901	Excision of infected graf	04	Otolaryngology	5
38100	Splenectomy; total (sepa	04	Otolaryngology	5
41015	Extraoral incision and dr	04	Otolaryngology	5
43135	Diverticulectomy of hypc	04	Otolaryngology	5
58660	Laparoscopy, surgical; v	04	Otolaryngology	5
62145	Cranioplasty for skull de	04	Otolaryngology	5
64861	Suture of; brachial plexu	04	Otolaryngology	5
64866	Anastomosis; facial-spir	04	Otolaryngology	5
66172	Fistulization of sclera fo	04	Otolaryngology	5
66762	Iridoplasty by photocoag	04	Otolaryngology	5
67560	Orbital implant (implant	04	Otolaryngology	5
67935	Suture of recent wound,	04	Otolaryngology	5
69950	Vestibular nerve section	04	Otolaryngology	5
15830	Excision, excessive skin	04	Otolaryngology	5
15819	Cervicoplasty	04	Otolaryngology	4
21010	Arthrotomy, temporoma	04	Otolaryngology	4
21079	Impression and custom	04	Otolaryngology	4
21248	Reconstruction of mand	04	Otolaryngology	4
21249	Reconstruction of mand	04	Otolaryngology	4
21255	Reconstruction of zygon	04	Otolaryngology	4
21275	Secondary revision of or	04	Otolaryngology	4
21366	Open treatment of comp	04	Otolaryngology	4
21720	Division of sternocleidor	04	Otolaryngology	4
22548	Arthrodesis, anterior tra	04	Otolaryngology	4
22558	Arthrodesis, anterior inte	04	Otolaryngology	4
22630	Arthrodesis, posterior in	04	Otolaryngology	4
22850	Removal of posterior no	04	Otolaryngology	4
22900	Excision, abdominal wal	04	Otolaryngology	4
23076	Excision, soft tissue tum	04	Otolaryngology	4
24075	Excision, tumor, soft tiss	04	Otolaryngology	4
25075	Excision, tumor, soft tiss	04	Otolaryngology	4
25077	Radical resection of tum	04	Otolaryngology	4
26055	Tendon sheath incision	04	Otolaryngology	4
27301	Incision and drainage, d	04	Otolaryngology	4
27603	Incision and drainage, le	04	Otolaryngology	4
27880	Amputation, leg, through	04	Otolaryngology	4
38745	Axillary lymphadenectom	04	Otolaryngology	4
41510	Suture of tongue to lip fo	04	Otolaryngology	4
41872	Gingivoplasty, each qua	04	Otolaryngology	4
44700	Exclusion of small intest	04	Otolaryngology	4
49587	Repair umbilical hernia,	04	Otolaryngology	4
58740	Lysis of adhesions (salp	04	Otolaryngology	4

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61305	Craniectomy or cranioto	04	Otolaryngology	4
61312	Craniectomy or cranioto	04	Otolaryngology	4
61512	Craniectomy, trephinic	04	Otolaryngology	4
61518	Craniectomy for excision	04	Otolaryngology	4
63685	Insertion or replacement	04	Otolaryngology	4
65755	Keratoplasty (corneal tra	04	Otolaryngology	4
67036	Vitreectomy, mechanical,	04	Otolaryngology	4
67040	Vitreectomy, mechanical,	04	Otolaryngology	4
67882	Construction of intermar	04	Otolaryngology	4
67908	Repair of blepharoptosis	04	Otolaryngology	4
69605	Revision mastoidectomy	04	Otolaryngology	4
11462	Excision of skin and sub	04	Otolaryngology	3
11463	Excision of skin and sub	04	Otolaryngology	3
15783	Dermabrasion; superfici	04	Otolaryngology	3
15789	Chemical peel, facial; de	04	Otolaryngology	3
15792	Chemical peel, nonfacia	04	Otolaryngology	3
15946	Excision, ischial pressur	04	Otolaryngology	3
19125	Excision of breast lesio	04	Otolaryngology	3
19260	Excision of chest wall tu	04	Otolaryngology	3
19301	Mastectomy, partial (eg,	04	Otolaryngology	3
20693	Adjustment or revision o	04	Otolaryngology	3
21081	Impression and custom	04	Otolaryngology	3
21181	Reconstruction by conto	04	Otolaryngology	3
21206	Osteotomy, maxilla, seg	04	Otolaryngology	3
21395	Open treatment of orbita	04	Otolaryngology	3
21435	Open treatment of crani	04	Otolaryngology	3
21440	Closed treatment of mar	04	Otolaryngology	3
21465	Open treatment of mand	04	Otolaryngology	3
21935	Radical resection of tum	04	Otolaryngology	3
22600	Arthrodesis, posterior or	04	Otolaryngology	3
24077	Radical resection of tum	04	Otolaryngology	3
26116	Excision, tumor or vascu	04	Otolaryngology	3
26520	Capsulectomy or capsul	04	Otolaryngology	3
26600	Closed treatment of met	04	Otolaryngology	3
26910	Amputation, metacarpal	04	Otolaryngology	3
26951	Amputation, finger or th	04	Otolaryngology	3
27446	Arthroplasty, knee, cond	04	Otolaryngology	3
27590	Amputation, thigh, throu	04	Otolaryngology	3
31760	Tracheoplasty; intrathor	04	Otolaryngology	3
31786	Excision of tracheal tum	04	Otolaryngology	3
35081	Direct repair of aneurysr	04	Otolaryngology	3
35656	Bypass graft, with other	04	Otolaryngology	3
39200	Excision of mediastinal c	04	Otolaryngology	3
40842	Vestibuloplasty; posteri	04	Otolaryngology	3
40844	Vestibuloplasty; entire a	04	Otolaryngology	3
41500	Fixation of tongue, mecl	04	Otolaryngology	3
43632	Gastrectomy, partial, dis	04	Otolaryngology	3
43633	Gastrectomy, partial, dis	04	Otolaryngology	3
43840	Gastrorrhaphy, suture o	04	Otolaryngology	3
44180	Laparoscopy, surgical, e	04	Otolaryngology	3
44204	Laparoscopy, surgical; c	04	Otolaryngology	3
44970	Laparoscopy, surgical, a	04	Otolaryngology	3

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46040	Incision and drainage of	04	Otolaryngology	3
60522	Thymectomy, partial or t	04	Otolaryngology	3
61154	Burr hole(s) with evacua	04	Otolaryngology	3
61332	Exploration of orbit (tran	04	Otolaryngology	3
61563	Excision, intra and extra	04	Otolaryngology	3
61860	Craniectomy or cranioto	04	Otolaryngology	3
63045	Laminectomy, facetecto	04	Otolaryngology	3
63282	Laminectomy for biopsy	04	Otolaryngology	3
63688	Revision or removal of in	04	Otolaryngology	3
64714	Neuroplasty, major perip	04	Otolaryngology	3
64736	Transection or avulsion	04	Otolaryngology	3
64772	Transection or avulsion	04	Otolaryngology	3
64784	Excision of neuroma; ma	04	Otolaryngology	3
65436	Removal of corneal epit	04	Otolaryngology	3
67105	Repair of retinal detachr	04	Otolaryngology	3
67450	Orbitotomy with bone fla	04	Otolaryngology	3
67808	Excision of chalazion; un	04	Otolaryngology	3
67909	Reduction of overcorrec	04	Otolaryngology	3
68700	Plastic repair of canalicu	04	Otolaryngology	3
69840	Revision fenestration op	04	Otolaryngology	3
77761	Intracavitary radiation sc	04	Otolaryngology	3
44320	Colostomy or skin level	04	Otolaryngology	3
64910	Nerve repair; with synthe	04	Otolaryngology	3
64911	Nerve repair; with autog	04	Otolaryngology	3
43845	Gastric restrictive proce	04	Otolaryngology	3
15170	Acellular dermal replace	04	Otolaryngology	2
15360	Tissue cultured allogene	04	Otolaryngology	2
15958	Excision, trochanteric pr	04	Otolaryngology	2
16035	Escharotomy; initial incis	04	Otolaryngology	2
19020	Mastotomy with explorat	04	Otolaryngology	2
19303	Mastectomy, simple, cor	04	Otolaryngology	2
19330	Removal of mammary ir	04	Otolaryngology	2
19342	Delayed insertion of bre	04	Otolaryngology	2
19357	Breast reconstruction, in	04	Otolaryngology	2
19367	Breast reconstruction wi	04	Otolaryngology	2
20694	Removal, under anesthe	04	Otolaryngology	2
20956	Bone graft with microvas	04	Otolaryngology	2
21080	Impression and custom	04	Otolaryngology	2
21122	Genioplasty; sliding oste	04	Otolaryngology	2
21125	Augmentation, mandibu	04	Otolaryngology	2
21138	Reduction forehead; cor	04	Otolaryngology	2
21143	Reconstruction midface	04	Otolaryngology	2
21193	Reconstruction of mand	04	Otolaryngology	2
21195	Reconstruction of mand	04	Otolaryngology	2
21209	Osteoplasty, facial bone	04	Otolaryngology	2
21270	Malar augmentation, pro	04	Otolaryngology	2
21295	Reduction of masseter r	04	Otolaryngology	2
21345	Closed treatment of nas	04	Otolaryngology	2
21408	Open treatment of fractu	04	Otolaryngology	2
21452	Percutaneous treatment	04	Otolaryngology	2
21495	Open treatment of hyoid	04	Otolaryngology	2
21497	Interdental wiring, for co	04	Otolaryngology	2

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21600	Excision of rib, partial	04	Otolaryngology	2
21750	Closure of median stern	04	Otolaryngology	2
23066	Biopsy, soft tissue of sh	04	Otolaryngology	2
23077	Radical resection of tum	04	Otolaryngology	2
23125	Claviclectomy; total	04	Otolaryngology	2
23140	Excision or curettage of	04	Otolaryngology	2
23200	Radical resection for tur	04	Otolaryngology	2
23412	Repair of ruptured musc	04	Otolaryngology	2
25076	Excision, tumor, soft tiss	04	Otolaryngology	2
25230	Radial styloidectomy (se	04	Otolaryngology	2
25290	Tenotomy, open, flexor c	04	Otolaryngology	2
25600	Closed treatment of dist	04	Otolaryngology	2
27125	Hemiarthroplasty, hip, p	04	Otolaryngology	2
27236	Open treatment of femo	04	Otolaryngology	2
27598	Disarticulation at knee	04	Otolaryngology	2
28003	Incision and drainage be	04	Otolaryngology	2
28005	Incision, bone cortex (eg	04	Otolaryngology	2
28270	Capsulotomy; metatarsc	04	Otolaryngology	2
28820	Amputation, toe; metata	04	Otolaryngology	2
29804	Arthroscopy, temporoma	04	Otolaryngology	2
29826	Arthroscopy, shoulder, s	04	Otolaryngology	2
32095	Thoracotomy, limited, fo	04	Otolaryngology	2
32810	Closure of chest wall fol	04	Otolaryngology	2
34520	Cross-over vein graft to	04	Otolaryngology	2
35001	Direct repair of aneurysr	04	Otolaryngology	2
35102	Direct repair of aneurysr	04	Otolaryngology	2
35188	Repair, acquired or trau	04	Otolaryngology	2
35261	Repair blood vessel with	04	Otolaryngology	2
35601	Bypass graft, with other	04	Otolaryngology	2
35860	Exploration for postoper	04	Otolaryngology	2
36819	Arteriovenous anastomc	04	Otolaryngology	2
36821	Arteriovenous anastomc	04	Otolaryngology	2
36825	Creation of arteriovenou	04	Otolaryngology	2
36830	Creation of arteriovenou	04	Otolaryngology	2
39010	Mediastinotomy with exp	04	Otolaryngology	2
39541	Repair, diaphragmatic h	04	Otolaryngology	2
40761	Plastic repair of cleft lip/	04	Otolaryngology	2
41823	Excision of osseous tub	04	Otolaryngology	2
42210	Palatoplasty for cleft pal	04	Otolaryngology	2
42215	Palatoplasty for cleft pal	04	Otolaryngology	2
42227	Lengthening of palate, w	04	Otolaryngology	2
42260	Repair of nasolabial fistu	04	Otolaryngology	2
42508	Parotid duct diversion, b	04	Otolaryngology	2
42509	Parotid duct diversion, b	04	Otolaryngology	2
42830	Adenoidectomy, primary	04	Otolaryngology	2
43310	Esophagoplasty (plastic	04	Otolaryngology	2
43324	Esophagogastric fundop	04	Otolaryngology	2
43326	Esophagogastric fundop	04	Otolaryngology	2
43496	Free jejunum transfer w	04	Otolaryngology	2
43500	Gastrotomy; with explor	04	Otolaryngology	2
43611	Excision, local; malignar	04	Otolaryngology	2
43640	Vagotomy including pylc	04	Otolaryngology	2

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43800	Pyloroplasty	04	Otolaryngology	2
43870	Closure of gastrostomy,	04	Otolaryngology	2
44010	Duodenotomy, for explo	04	Otolaryngology	2
44020	Enterotomy, small intest	04	Otolaryngology	2
44300	Placement, enterostomy	04	Otolaryngology	2
44602	Suture of small intestine	04	Otolaryngology	2
44615	Intestinal stricturoplasty	04	Otolaryngology	2
44800	Excision of Meckel's div	04	Otolaryngology	2
46200	Fissurectomy, with or wi	04	Otolaryngology	2
47605	Cholecystectomy; with c	04	Otolaryngology	2
49000	Exploratory laparotomy,	04	Otolaryngology	2
49020	Drainage of peritoneal a	04	Otolaryngology	2
49507	Repair initial inguinal he	04	Otolaryngology	2
49520	Repair recurrent inguina	04	Otolaryngology	2
49565	Repair recurrent incisor	04	Otolaryngology	2
50520	Closure of nephrocutane	04	Otolaryngology	2
57288	Sling operation for stres	04	Otolaryngology	2
61519	Craniectomy for excision	04	Otolaryngology	2
61597	Transcondylar (far latera	04	Otolaryngology	2
61791	Creation of lesion by ste	04	Otolaryngology	2
62010	Elevation of depressed s	04	Otolaryngology	2
62362	Implantation or replacen	04	Otolaryngology	2
63005	Laminectomy with explo	04	Otolaryngology	2
63015	Laminectomy with explo	04	Otolaryngology	2
63275	Laminectomy for biopsy	04	Otolaryngology	2
63655	Laminectomy for implan	04	Otolaryngology	2
64713	Neuroplasty, major perip	04	Otolaryngology	2
64718	Neuroplasty and/or trans	04	Otolaryngology	2
64738	Transection or avulsion	04	Otolaryngology	2
64740	Transection or avulsion	04	Otolaryngology	2
64856	Suture of major peripher	04	Otolaryngology	2
65101	Enucleation of eye; with	04	Otolaryngology	2
66850	Removal of lens materia	04	Otolaryngology	2
67311	Strabismus surgery, rec	04	Otolaryngology	2
67314	Strabismus surgery, rec	04	Otolaryngology	2
67440	Orbitotomy with bone fla	04	Otolaryngology	2
67902	Repair of blepharoptosis	04	Otolaryngology	2
67915	Repair of ectropion; ther	04	Otolaryngology	2
67973	Reconstruction of eyelid	04	Otolaryngology	2
68500	Excision of lacrimal glan	04	Otolaryngology	2
32480	Removal of lung, other t	04	Otolaryngology	2
45110	Proctectomy; complete,	04	Otolaryngology	2
15400	Xenograft, skin (dermal)	04	Otolaryngology	2
35883	Revision, femoral anaste	04	Otolaryngology	1
35884	Revision, femoral anaste	04	Otolaryngology	1
45395	Laparoscopy, surgical; p	04	Otolaryngology	1
32504	Resection of apical lung	04	Otolaryngology	1
11470	Excision of skin and sub	04	Otolaryngology	1
11771	Excision of pilonidal cys	04	Otolaryngology	1
15780	Dermabrasion; total face	04	Otolaryngology	1
15782	Dermabrasion; regional,	04	Otolaryngology	1
15833	Excision, excessive skin	04	Otolaryngology	1

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15835	Excision, excessive skin	04	Otolaryngology	1
15842	Graft for facial nerve par	04	Otolaryngology	1
15933	Excision, sacral pressur	04	Otolaryngology	1
15937	Excision, sacral pressur	04	Otolaryngology	1
15945	Excision, ischial pressur	04	Otolaryngology	1
15956	Excision, trochanteric pr	04	Otolaryngology	1
19304	Mastectomy, subcutane	04	Otolaryngology	1
19306	Mastectomy, radical, inc	04	Otolaryngology	1
19328	Removal of intact mamr	04	Otolaryngology	1
20661	Application of halo, inclu	04	Otolaryngology	1
20692	Application of a multipla	04	Otolaryngology	1
21060	Meniscectomy, partial or	04	Otolaryngology	1
21082	Impression and custom	04	Otolaryngology	1
21086	Impression and custom	04	Otolaryngology	1
21087	Impression and custom	04	Otolaryngology	1
21100	Application of halo type	04	Otolaryngology	1
21141	Reconstruction midface	04	Otolaryngology	1
21150	Reconstruction midface	04	Otolaryngology	1
21155	Reconstruction midface	04	Otolaryngology	1
21180	Reconstruction, entire o	04	Otolaryngology	1
21184	Reconstruction of orbita	04	Otolaryngology	1
21242	Arthroplasty, temporoma	04	Otolaryngology	1
21340	Percutaneous treatment	04	Otolaryngology	1
21401	Closed treatment of frac	04	Otolaryngology	1
21431	Closed treatment of cran	04	Otolaryngology	1
21490	Open treatment of temp	04	Otolaryngology	1
21615	Excision first and/or cerv	04	Otolaryngology	1
21800	Closed treatment of rib f	04	Otolaryngology	1
22015	Incision and drainage, o	04	Otolaryngology	1
22220	Osteotomy of spine, incl	04	Otolaryngology	1
22222	Osteotomy of spine, incl	04	Otolaryngology	1
22310	Closed treatment of vert	04	Otolaryngology	1
22318	Open treatment and/or r	04	Otolaryngology	1
22326	Open treatment and/or r	04	Otolaryngology	1
22556	Arthrodesis, anterior inte	04	Otolaryngology	1
22595	Arthrodesis, posterior te	04	Otolaryngology	1
23180	Partial excision (crateriz	04	Otolaryngology	1
23420	Reconstruction of comp	04	Otolaryngology	1
23472	Arthroplasty, glenohume	04	Otolaryngology	1
23480	Osteotomy, clavicle, with	04	Otolaryngology	1
23530	Open treatment of stern	04	Otolaryngology	1
23575	Closed treatment of sca	04	Otolaryngology	1
24105	Excision, olecranon burs	04	Otolaryngology	1
24134	Sequestrectomy (eg, for	04	Otolaryngology	1
24516	Treatment of humeral sh	04	Otolaryngology	1
25000	Incision, extensor tendo	04	Otolaryngology	1
25028	Incision and drainage, fo	04	Otolaryngology	1
25066	Biopsy, soft tissue of fo	04	Otolaryngology	1
25111	Excision of ganglion, wri	04	Otolaryngology	1
25115	Radical excision of burs	04	Otolaryngology	1
25605	Closed treatment of dist	04	Otolaryngology	1
25675	Closed treatment of dist	04	Otolaryngology	1

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26035	Decompression fingers	04	Otolaryngology	1
26070	Arthrotomy, with explora	04	Otolaryngology	1
26123	Fasciectomy, partial pal	04	Otolaryngology	1
26140	Synovectomy, proximal	04	Otolaryngology	1
26145	Synovectomy, tendon sh	04	Otolaryngology	1
26185	Sesamoidectomy, thum	04	Otolaryngology	1
26200	Excision or curettage of	04	Otolaryngology	1
26210	Excision or curettage of	04	Otolaryngology	1
26410	Repair, extensor tendon	04	Otolaryngology	1
26440	Tenolysis, flexor tendon	04	Otolaryngology	1
26605	Closed treatment of met	04	Otolaryngology	1
26608	Percutaneous skeletal fi	04	Otolaryngology	1
26720	Closed treatment of pha	04	Otolaryngology	1
26952	Amputation, finger or th	04	Otolaryngology	1
26990	Incision and drainage, p	04	Otolaryngology	1
26992	Incision, bone cortex, pe	04	Otolaryngology	1
27048	Excision, tumor, pelvis a	04	Otolaryngology	1
27065	Excision of bone cyst or	04	Otolaryngology	1
27080	Coccygectomy, primary	04	Otolaryngology	1
27132	Conversion of previous l	04	Otolaryngology	1
27137	Revision of total hip arth	04	Otolaryngology	1
27193	Closed treatment of pelv	04	Otolaryngology	1
27245	Treatment of intertrocha	04	Otolaryngology	1
27303	Incision, deep, with oper	04	Otolaryngology	1
27327	Excision, tumor, thigh or	04	Otolaryngology	1
27329	Radical resection of tum	04	Otolaryngology	1
27372	Removal of foreign body	04	Otolaryngology	1
27514	Open treatment of femo	04	Otolaryngology	1
27524	Open treatment of patell	04	Otolaryngology	1
27615	Radical resection of tum	04	Otolaryngology	1
27619	Excision, tumor, leg or a	04	Otolaryngology	1
27620	Arthrotomy, ankle, with j	04	Otolaryngology	1
27659	Repair, flexor tendon, le	04	Otolaryngology	1
27784	Open treatment of proxi	04	Otolaryngology	1
27870	Arthrodesis, ankle, oper	04	Otolaryngology	1
27881	Amputation, leg, through	04	Otolaryngology	1
28011	Tenotomy, percutaneous	04	Otolaryngology	1
28045	Excision, tumor, foot; de	04	Otolaryngology	1
28118	Ostectomy, calcaneus;	04	Otolaryngology	1
28120	Partial excision (crateriz	04	Otolaryngology	1
28122	Partial excision (crateriz	04	Otolaryngology	1
28126	Resection, partial or con	04	Otolaryngology	1
28140	Metatarsectomy	04	Otolaryngology	1
28230	Tenotomy, open, tendor	04	Otolaryngology	1
28232	Tenotomy, open, tendor	04	Otolaryngology	1
28304	Osteotomy, tarsal bones	04	Otolaryngology	1
28308	Osteotomy, with or witho	04	Otolaryngology	1
28430	Closed treatment of talu	04	Otolaryngology	1
28456	Percutaneous skeletal fi	04	Otolaryngology	1
28725	Arthrodesis; subtalar	04	Otolaryngology	1
28805	Amputation, foot; transr	04	Otolaryngology	1
28810	Amputation, metatarsal,	04	Otolaryngology	1

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28825	Amputation, toe; interph	04	Otolaryngology	1
30545	Repair choanal atresia;	04	Otolaryngology	1
31805	Suture of tracheal wound	04	Otolaryngology	1
32110	Thoracotomy, major; wit	04	Otolaryngology	1
32140	Thoracotomy, major; wit	04	Otolaryngology	1
32215	Pleural scarification for r	04	Otolaryngology	1
32220	Decortication, pulmonar	04	Otolaryngology	1
32654	Thoracoscopy, surgical;	04	Otolaryngology	1
32660	Thoracoscopy, surgical;	04	Otolaryngology	1
32662	Thoracoscopy, surgical;	04	Otolaryngology	1
32665	Thoracoscopy, surgical;	04	Otolaryngology	1
33025	Creation of pericardial w	04	Otolaryngology	1
33050	Excision of pericardial c	04	Otolaryngology	1
33251	Operative ablation of su	04	Otolaryngology	1
33514	Coronary artery bypass,	04	Otolaryngology	1
33615	Repair of complex cardi	04	Otolaryngology	1
34051	Embolectomy or thromb	04	Otolaryngology	1
35141	Direct repair of aneurysr	04	Otolaryngology	1
35207	Repair blood vessel, dire	04	Otolaryngology	1
35236	Repair blood vessel with	04	Otolaryngology	1
35256	Repair blood vessel with	04	Otolaryngology	1
35556	Bypass graft, with vein;	04	Otolaryngology	1
35671	Bypass graft, with other	04	Otolaryngology	1
35875	Thrombectomy of arteria	04	Otolaryngology	1
36818	Arteriovenous anastomc	04	Otolaryngology	1
36831	Thrombectomy, open, a	04	Otolaryngology	1
37607	Ligation or banding of ar	04	Otolaryngology	1
37700	Ligation and division of l	04	Otolaryngology	1
37718	Ligation, division, and st	04	Otolaryngology	1
37765	Stab phlebectomy of var	04	Otolaryngology	1
37766	Stab phlebectomy of var	04	Otolaryngology	1
38120	Laparoscopy, surgical, s	04	Otolaryngology	1
38381	Suture and/or ligation of	04	Otolaryngology	1
38550	Excision of cystic hydror	04	Otolaryngology	1
38740	Axillary lymphadenecton	04	Otolaryngology	1
40701	Plastic repair of cleft lip/	04	Otolaryngology	1
40702	Plastic repair of cleft lip/	04	Otolaryngology	1
40720	Plastic repair of cleft lip/	04	Otolaryngology	1
40843	Vestibuloplasty; posterio	04	Otolaryngology	1
43117	Partial esophagectomy,	04	Otolaryngology	1
43123	Partial esophagectomy,	04	Otolaryngology	1
43312	Esophagoplasty (plastic	04	Otolaryngology	1
43320	Esophagogastrostomy (	04	Otolaryngology	1
43330	Esophagomyotomy (Hel	04	Otolaryngology	1
43331	Esophagomyotomy (Hel	04	Otolaryngology	1
43350	Esophagostomy, fistuliza	04	Otolaryngology	1
43361	Gastrointestinal reconst	04	Otolaryngology	1
43405	Ligation or stapling at ga	04	Otolaryngology	1
43510	Gastrotomy; with esopha	04	Otolaryngology	1
43520	Pyloromyotomy, cutting	04	Otolaryngology	1
43652	Laparoscopy, surgical; t	04	Otolaryngology	1
43810	Gastroduodenostomy	04	Otolaryngology	1

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43832	Gastrostomy, open; with	04	Otolaryngology	1
44025	Colotomy, for exploratio	04	Otolaryngology	1
44125	Enterectomy, resection	04	Otolaryngology	1
44141	Colectomy, partial; with	04	Otolaryngology	1
44146	Colectomy, partial; with	04	Otolaryngology	1
44150	Colectomy, total, abdom	04	Otolaryngology	1
44151	Colectomy, total, abdom	04	Otolaryngology	1
44155	Colectomy, total, abdom	04	Otolaryngology	1
44202	Laparoscopy, surgical; e	04	Otolaryngology	1
44207	Laparoscopy, surgical; c	04	Otolaryngology	1
44314	Revision of ileostomy; co	04	Otolaryngology	1
44346	Revision of colostomy; v	04	Otolaryngology	1
44603	Suture of small intestine	04	Otolaryngology	1
44626	Closure of enterostomy,	04	Otolaryngology	1
44661	Closure of enterovesical	04	Otolaryngology	1
44950	Appendectomy;	04	Otolaryngology	1
45020	Incision and drainage of	04	Otolaryngology	1
45100	Biopsy of anorectal wall,	04	Otolaryngology	1
45190	Destruction of rectal tum	04	Otolaryngology	1
45402	Laparoscopy, surgical; p	04	Otolaryngology	1
45505	Proctoplasty; for prolaps	04	Otolaryngology	1
45563	Exploration, repair, and	04	Otolaryngology	1
46255	Hemorrhoidectomy, inte	04	Otolaryngology	1
46260	Hemorrhoidectomy, inte	04	Otolaryngology	1
46947	Hemorrhoidopexy (eg, fo	04	Otolaryngology	1
47100	Biopsy of liver, wedge	04	Otolaryngology	1
47420	Choledochotomy or cho	04	Otolaryngology	1
47480	Cholecystotomy or chole	04	Otolaryngology	1
47610	Cholecystectomy with ex	04	Otolaryngology	1
47711	Excision of bile duct tum	04	Otolaryngology	1
47740	Cholecystoenterostomy;	04	Otolaryngology	1
47780	Anastomosis, Roux-en-Y	04	Otolaryngology	1
48000	Placement of drains, pe	04	Otolaryngology	1
48100	Biopsy of pancreas, ope	04	Otolaryngology	1
48140	Pancreatectomy, distal s	04	Otolaryngology	1
49060	Drainage of retroperiton	04	Otolaryngology	1
49421	Insertion of intraperitone	04	Otolaryngology	1
49550	Repair initial femoral he	04	Otolaryngology	1
49553	Repair initial femoral he	04	Otolaryngology	1
49566	Repair recurrent incision	04	Otolaryngology	1
49590	Repair spigelian hernia	04	Otolaryngology	1
49650	Laparoscopy, surgical; r	04	Otolaryngology	1
50100	Transection or repositio	04	Otolaryngology	1
50220	Nephrectomy, including	04	Otolaryngology	1
50230	Nephrectomy, including	04	Otolaryngology	1
50541	Laparoscopy, surgical; a	04	Otolaryngology	1
50545	Laparoscopy, surgical; r	04	Otolaryngology	1
51020	Cystotomy or cystostom	04	Otolaryngology	1
51555	Cystectomy, partial; com	04	Otolaryngology	1
52648	Laser vaporization of pro	04	Otolaryngology	1
53430	Urethroplasty, reconstru	04	Otolaryngology	1
53520	Closure of urethrostomy	04	Otolaryngology	1

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55831	Prostatectomy (including	04	Otolaryngology	1
55840	Prostatectomy, retropub	04	Otolaryngology	1
55875	Transperineal placemen	04	Otolaryngology	1
57240	Anterior colporrhaphy, re	04	Otolaryngology	1
57250	Posterior colporrhaphy,	04	Otolaryngology	1
57280	Colpopexy, abdominal a	04	Otolaryngology	1
57282	Colpopexy, vaginal; extr	04	Otolaryngology	1
57284	Paravaginal defect repa	04	Otolaryngology	1
57700	Cerclage of uterine cerv	04	Otolaryngology	1
58671	Laparoscopy, surgical; v	04	Otolaryngology	1
58720	Salpingo-oophorectomy	04	Otolaryngology	1
58940	Oophorectomy, partial o	04	Otolaryngology	1
60545	Adrenalectomy, partial c	04	Otolaryngology	1
61120	Burr hole(s) for ventricul	04	Otolaryngology	1
61140	Burr hole(s) or trephine;	04	Otolaryngology	1
61320	Craniectomy or cranioto	04	Otolaryngology	1
61330	Decompression of orbit	04	Otolaryngology	1
61333	Exploration of orbit (tran	04	Otolaryngology	1
61450	Craniectomy, subtempo	04	Otolaryngology	1
61458	Craniectomy, suboccipit	04	Otolaryngology	1
61516	Craniectomy, trephinatic	04	Otolaryngology	1
61521	Craniectomy for excision	04	Otolaryngology	1
61546	Craniotomy for hypophy	04	Otolaryngology	1
61571	Craniectomy or cranioto	04	Otolaryngology	1
61697	Surgery of complex intra	04	Otolaryngology	1
61750	Stereotactic biopsy, asp	04	Otolaryngology	1
61880	Revision or removal of in	04	Otolaryngology	1
61886	Insertion or replacement	04	Otolaryngology	1
62000	Elevation of depressed s	04	Otolaryngology	1
62117	Reduction of craniomeg	04	Otolaryngology	1
62147	Cranioplasty with autogr	04	Otolaryngology	1
62163	Neuroendoscopy, intrac	04	Otolaryngology	1
62164	Neuroendoscopy, intrac	04	Otolaryngology	1
62230	Replacement or revisior	04	Otolaryngology	1
62258	Removal of complete ce	04	Otolaryngology	1
62355	Removal of previously in	04	Otolaryngology	1
63046	Laminectomy, facetecto	04	Otolaryngology	1
63077	Discectomy, anterior, wi	04	Otolaryngology	1
63194	Laminectomy with cord	04	Otolaryngology	1
63265	Laminectomy for excisio	04	Otolaryngology	1
63266	Laminectomy for excisio	04	Otolaryngology	1
63267	Laminectomy for excisio	04	Otolaryngology	1
63281	Laminectomy for biopsy,	04	Otolaryngology	1
63300	Vertebral corpectomy (v	04	Otolaryngology	1
63700	Repair of meningocele;	04	Otolaryngology	1
63704	Repair of myelomeningo	04	Otolaryngology	1
63709	Repair of dural/cerebros	04	Otolaryngology	1
64702	Neuroplasty; digital, one	04	Otolaryngology	1
64708	Neuroplasty, major perip	04	Otolaryngology	1
64712	Neuroplasty, major perip	04	Otolaryngology	1
64744	Transection or avulsion	04	Otolaryngology	1
64752	Transection or avulsion	04	Otolaryngology	1

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64802	Sympathectomy, cervical	04	Otolaryngology	1	
64896	Nerve graft (includes ob	04	Otolaryngology	1	
65155	Reinsertion of ocular im	04	Otolaryngology	1	
65420	Excision or transposition	04	Otolaryngology	1	
66180	Aqueous shunt to extrac	04	Otolaryngology	1	
66840	Removal of lens materia	04	Otolaryngology	1	
66930	Removal of lens materia	04	Otolaryngology	1	
66985	Insertion of intraocular l	04	Otolaryngology	1	
66986	Exchange of intraocular	04	Otolaryngology	1	
67010	Removal of vitreous, ant	04	Otolaryngology	1	
67015	Aspiration or release of	04	Otolaryngology	1	
67025	Injection of vitreous sub	04	Otolaryngology	1	
67108	Repair of retinal detach	04	Otolaryngology	1	
67312	Strabismus surgery, rec	04	Otolaryngology	1	
67430	Orbitotomy with bone fl	04	Otolaryngology	1	
67835	Correction of trichiasis; i	04	Otolaryngology	1	
67906	Repair of blepharoptosis	04	Otolaryngology	1	
67975	Reconstruction of eyelid	04	Otolaryngology	1	
68130	Excision of lesion, conj	04	Otolaryngology	1	
68320	Conjunctivoplasty; with c	04	Otolaryngology	1	
68362	Conjunctival flap; total (s	04	Otolaryngology	1	
68505	Excision of lacrimal glan	04	Otolaryngology	1	
68770	Closure of lacrimal fistul	04	Otolaryngology	1	
25609	Open treatment of distal	04	Otolaryngology	1	
44625	Closure of enterostomy,	04	Otolaryngology	1	
43886	Gastric restrictive proce	04	Otolaryngology	0	
43887	Gastric restrictive proce	04	Otolaryngology	0	
43888	Gastric restrictive proce	04	Otolaryngology	0	
44227	Laparoscopy, surgical, c	04	Otolaryngology	0	
44188	Laparoscopy, surgical, c	04	Otolaryngology	0	
25608	Open treatment of distal	04	Otolaryngology	0	
58957	Resection (tumor debulk	04	Otolaryngology	0	
43770	Laparoscopy, surgical, g	04	Otolaryngology	0	
43774	Laparoscopy, surgical, g	04	Otolaryngology	0	
25607	Open treatment of distal	04	Otolaryngology	0	
44157	Colectomy, total, abdom	04	Otolaryngology	0	
44158	Colectomy, total, abdom	04	Otolaryngology	0	
43771	Laparoscopy, surgical, c	04	Otolaryngology	0	
43772	Laparoscopy, surgical, g	04	Otolaryngology	0	
43773	Laparoscopy, surgical, g	04	Otolaryngology	0	
58958	Resection (tumor debulk	04	Otolaryngology	0	
32503	Resection of apical lung	04	Otolaryngology	0	191,989
14060	Adjacent tissue transfer	24	Plastic and Reconstructive Surgery	22,619	
14040	Adjacent tissue transfer	24	Plastic and Reconstructive Surgery	19,148	
15734	Muscle, myocutaneous,	24	Plastic and Reconstructive Surgery	9,052	
15260	Full thickness graft, free	24	Plastic and Reconstructive Surgery	8,712	
15100	Split-thickness autograft	24	Plastic and Reconstructive Surgery	8,620	
64721	Neuroplasty and/or trans	24	Plastic and Reconstructive Surgery	7,027	
14020	Adjacent tissue transfer	24	Plastic and Reconstructive Surgery	6,885	
15823	Blepharoplasty, upper e	24	Plastic and Reconstructive Surgery	5,712	
14041	Adjacent tissue transfer	24	Plastic and Reconstructive Surgery	4,960	
26055	Tendon sheath incision	24	Plastic and Reconstructive Surgery	4,356	

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15240	Full thickness graft, free	24	Plastic and Reconstructive Surgery	4,351
14300	Adjacent tissue transfer	24	Plastic and Reconstructive Surgery	4,136
19318	Reduction mammoplasty	24	Plastic and Reconstructive Surgery	3,998
15430	Acellular xenograft implant	24	Plastic and Reconstructive Surgery	3,420
15731	Forehead flap with pre-ear	24	Plastic and Reconstructive Surgery	3,267
14061	Adjacent tissue transfer	24	Plastic and Reconstructive Surgery	3,265
14021	Adjacent tissue transfer	24	Plastic and Reconstructive Surgery	3,214
14000	Adjacent tissue transfer	24	Plastic and Reconstructive Surgery	3,197
15738	Muscle, myocutaneous, free	24	Plastic and Reconstructive Surgery	3,131
15120	Split-thickness autograft	24	Plastic and Reconstructive Surgery	2,818
67904	Repair of blepharoptosis	24	Plastic and Reconstructive Surgery	2,742
15220	Full thickness graft, free	24	Plastic and Reconstructive Surgery	2,459
19357	Breast reconstruction, immediate	24	Plastic and Reconstructive Surgery	2,440
19371	Periprosthetic capsulectomy	24	Plastic and Reconstructive Surgery	2,194
14001	Adjacent tissue transfer	24	Plastic and Reconstructive Surgery	2,164
26160	Excision of lesion of tendon	24	Plastic and Reconstructive Surgery	2,041
15732	Muscle, myocutaneous, free	24	Plastic and Reconstructive Surgery	1,903
21015	Radical resection of tumor	24	Plastic and Reconstructive Surgery	1,861
19380	Revision of reconstructed	24	Plastic and Reconstructive Surgery	1,851
19342	Delayed insertion of breast	24	Plastic and Reconstructive Surgery	1,839
29848	Endoscopy, wrist, surgical	24	Plastic and Reconstructive Surgery	1,750
15946	Excision, ischial pressure	24	Plastic and Reconstructive Surgery	1,623
19350	Nipple/areola reconstruction	24	Plastic and Reconstructive Surgery	1,563
67917	Repair of ectropion; external	24	Plastic and Reconstructive Surgery	1,435
15937	Excision, sacral pressure	24	Plastic and Reconstructive Surgery	1,424
15576	Formation of direct or tubular	24	Plastic and Reconstructive Surgery	1,419
20680	Removal of implant; deep	24	Plastic and Reconstructive Surgery	1,417
26123	Fasciectomy, partial palm	24	Plastic and Reconstructive Surgery	1,360
11970	Replacement of tissue expander	24	Plastic and Reconstructive Surgery	1,221
19328	Removal of intact mammary	24	Plastic and Reconstructive Surgery	1,220
15630	Delay of flap or sectioning	24	Plastic and Reconstructive Surgery	1,178
15936	Excision, sacral pressure	24	Plastic and Reconstructive Surgery	1,173
26951	Amputation, finger or thumb	24	Plastic and Reconstructive Surgery	1,128
13160	Secondary closure of surgical	24	Plastic and Reconstructive Surgery	1,094
67900	Repair of brow ptosis (surgical)	24	Plastic and Reconstructive Surgery	1,022
15740	Flap; island pedicle	24	Plastic and Reconstructive Surgery	1,016
15574	Formation of direct or tubular	24	Plastic and Reconstructive Surgery	996
19370	Open periprosthetic capsulectomy	24	Plastic and Reconstructive Surgery	954
19330	Removal of mammary implant	24	Plastic and Reconstructive Surgery	906
19316	Mastopexy	24	Plastic and Reconstructive Surgery	893
21555	Excision tumor, soft tissue	24	Plastic and Reconstructive Surgery	893
21627	Sternal debridement	24	Plastic and Reconstructive Surgery	883
15115	Epidermal autograft, facial	24	Plastic and Reconstructive Surgery	779
15736	Muscle, myocutaneous, free	24	Plastic and Reconstructive Surgery	745
15830	Excision, excessive skin	24	Plastic and Reconstructive Surgery	744
64718	Neuroplasty and/or transfer	24	Plastic and Reconstructive Surgery	718
26115	Excision, tumor or vascular	24	Plastic and Reconstructive Surgery	703
26116	Excision, tumor or vascular	24	Plastic and Reconstructive Surgery	670
25115	Radical excision of bursa	24	Plastic and Reconstructive Surgery	658
15330	Acellular dermal allograft	24	Plastic and Reconstructive Surgery	641
21235	Graft; ear cartilage, autologous	24	Plastic and Reconstructive Surgery	633
25111	Excision of ganglion, wrist	24	Plastic and Reconstructive Surgery	630

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15300	Allograft skin for tempor	24	Plastic and Reconstructive Surgery	620
67950	Canthoplasty (reconstru	24	Plastic and Reconstructive Surgery	619
64708	Neuroplasty, major perip	24	Plastic and Reconstructive Surgery	605
21930	Excision, tumor, soft tiss	24	Plastic and Reconstructive Surgery	594
26952	Amputation, finger or thu	24	Plastic and Reconstructive Surgery	590
49560	Repair initial incisional o	24	Plastic and Reconstructive Surgery	586
25447	Arthroplasty, interpositio	24	Plastic and Reconstructive Surgery	569
40520	Excision of lip; V-excisio	24	Plastic and Reconstructive Surgery	556
21600	Excision of rib, partial	24	Plastic and Reconstructive Surgery	555
67961	Excision and repair of ey	24	Plastic and Reconstructive Surgery	550
64719	Neuroplasty and/or trans	24	Plastic and Reconstructive Surgery	547
26418	Repair, extensor tendon	24	Plastic and Reconstructive Surgery	544
64704	Neuroplasty; nerve of ha	24	Plastic and Reconstructive Surgery	537
26145	Synovectomy, tendon she	24	Plastic and Reconstructive Surgery	524
19120	Excision of cyst, fibroad	24	Plastic and Reconstructive Surgery	517
21556	Excision tumor, soft tiss	24	Plastic and Reconstructive Surgery	515
38525	Biopsy or excision of lym	24	Plastic and Reconstructive Surgery	511
26765	Open treatment of distal	24	Plastic and Reconstructive Surgery	425
19361	Breast reconstruction wi	24	Plastic and Reconstructive Surgery	423
15822	Blepharoplasty, upper e	24	Plastic and Reconstructive Surgery	419
69110	Excision external ear; pa	24	Plastic and Reconstructive Surgery	394
25310	Tendon transplantation	24	Plastic and Reconstructive Surgery	383
15956	Excision, trochanteric pr	24	Plastic and Reconstructive Surgery	369
64831	Suture of digital nerve, h	24	Plastic and Reconstructive Surgery	367
17106	Destruction of cutaneou	24	Plastic and Reconstructive Surgery	365
15756	Free muscle or myocuta	24	Plastic and Reconstructive Surgery	364
67966	Excision and repair of ey	24	Plastic and Reconstructive Surgery	357
27615	Radical resection of tum	24	Plastic and Reconstructive Surgery	352
21935	Radical resection of tum	24	Plastic and Reconstructive Surgery	345
11971	Removal of tissue expan	24	Plastic and Reconstructive Surgery	342
15572	Formation of direct or tu	24	Plastic and Reconstructive Surgery	337
26356	Repair or advancement,	24	Plastic and Reconstructive Surgery	335
25075	Excision, tumor, soft tiss	24	Plastic and Reconstructive Surgery	334
26340	Manipulation, finger join	24	Plastic and Reconstructive Surgery	331
19325	Mammoplasty, augment	24	Plastic and Reconstructive Surgery	330
21557	Radical resection of tum	24	Plastic and Reconstructive Surgery	323
26020	Drainage of tendon shea	24	Plastic and Reconstructive Surgery	323
26121	Fasciectomy, palm only,	24	Plastic and Reconstructive Surgery	322
19367	Breast reconstruction wi	24	Plastic and Reconstructive Surgery	321
24075	Excision, tumor, soft tiss	24	Plastic and Reconstructive Surgery	308
15958	Excision, trochanteric pr	24	Plastic and Reconstructive Surgery	306
25000	Incision, extensor tendo	24	Plastic and Reconstructive Surgery	305
15400	Xenograft, skin (dermal)	24	Plastic and Reconstructive Surgery	303
26410	Repair, extensor tendon	24	Plastic and Reconstructive Surgery	302
26440	Tenolysis, flexor tendon	24	Plastic and Reconstructive Surgery	295
15170	Acellular dermal replace	24	Plastic and Reconstructive Surgery	290
15620	Delay of flap or sectionir	24	Plastic and Reconstructive Surgery	289
28820	Amputation, toe; metata	24	Plastic and Reconstructive Surgery	288
40654	Repair lip, full thickness	24	Plastic and Reconstructive Surgery	287
15175	Acellular dermal replace	24	Plastic and Reconstructive Surgery	285
25260	Repair, tendon or muscl	24	Plastic and Reconstructive Surgery	284
67903	Repair of blepharoptosis	24	Plastic and Reconstructive Surgery	282

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26735	Open treatment of phala	24	Plastic and Reconstructive Surgery	277
15320	Allograft skin for tempor	24	Plastic and Reconstructive Surgery	276
26860	Arthrodesis, interphalan	24	Plastic and Reconstructive Surgery	272
15200	Full thickness graft, free	24	Plastic and Reconstructive Surgery	271
49565	Repair recurrent incision	24	Plastic and Reconstructive Surgery	265
27603	Incision and drainage, le	24	Plastic and Reconstructive Surgery	263
15757	Free skin flap with micro	24	Plastic and Reconstructive Surgery	261
67924	Repair of entropion; exte	24	Plastic and Reconstructive Surgery	260
30520	Septoplasty or submucco	24	Plastic and Reconstructive Surgery	248
15110	Epidermal autograft, tru	24	Plastic and Reconstructive Surgery	248
15760	Graft; composite (eg, ful	24	Plastic and Reconstructive Surgery	242
21282	Lateral canthopexy	24	Plastic and Reconstructive Surgery	242
67916	Repair of ectropion; exc	24	Plastic and Reconstructive Surgery	242
15130	Dermal autograft, trunk,	24	Plastic and Reconstructive Surgery	242
26350	Repair or advancement,	24	Plastic and Reconstructive Surgery	241
68720	Dacryocystorhinostomy	24	Plastic and Reconstructive Surgery	239
24077	Radical resection of tum	24	Plastic and Reconstructive Surgery	233
15750	Flap; neurovascular ped	24	Plastic and Reconstructive Surgery	229
26210	Excision or curettage of	24	Plastic and Reconstructive Surgery	221
15570	Formation of direct or tu	24	Plastic and Reconstructive Surgery	218
28810	Amputation, metatarsal,	24	Plastic and Reconstructive Surgery	218
64712	Neuroplasty, major perip	24	Plastic and Reconstructive Surgery	218
21630	Radical resection of ster	24	Plastic and Reconstructive Surgery	216
26480	Transfer or transplant of	24	Plastic and Reconstructive Surgery	216
64784	Excision of neuroma; ma	24	Plastic and Reconstructive Surgery	216
11960	Insertion of tissue expan	24	Plastic and Reconstructive Surgery	215
27880	Amputation, leg, through	24	Plastic and Reconstructive Surgery	199
40510	Excision of lip; transvers	24	Plastic and Reconstructive Surgery	199
15940	Excision, ischial pressur	24	Plastic and Reconstructive Surgery	198
26910	Amputation, metacarpal	24	Plastic and Reconstructive Surgery	193
15931	Excision, sacral pressur	24	Plastic and Reconstructive Surgery	191
26525	Capsulectomy or capsul	24	Plastic and Reconstructive Surgery	191
26746	Open treatment of articu	24	Plastic and Reconstructive Surgery	190
26727	Percutaneous skeletal fi	24	Plastic and Reconstructive Surgery	188
25077	Radical resection of tum	24	Plastic and Reconstructive Surgery	187
21365	Open treatment of comp	24	Plastic and Reconstructive Surgery	186
15420	Xenograft skin (dermal),	24	Plastic and Reconstructive Surgery	185
21501	Incision and drainage, d	24	Plastic and Reconstructive Surgery	185
20926	Tissue grafts, other (eg,	24	Plastic and Reconstructive Surgery	184
26040	Fasciotomy, palmar (eg,	24	Plastic and Reconstructive Surgery	179
25076	Excision, tumor, soft tiss	24	Plastic and Reconstructive Surgery	177
19364	Breast reconstruction wi	24	Plastic and Reconstructive Surgery	174
19303	Mastectomy, simple, cor	24	Plastic and Reconstructive Surgery	173
15770	Graft; derma-fat-fascia	24	Plastic and Reconstructive Surgery	171
28035	Release, tarsal tunnel (p	24	Plastic and Reconstructive Surgery	171
26540	Repair of collateral ligan	24	Plastic and Reconstructive Surgery	168
26445	Tenolysis, extensor tend	24	Plastic and Reconstructive Surgery	166
27590	Amputation, thigh, throu	24	Plastic and Reconstructive Surgery	166
15135	Dermal autograft, face, s	24	Plastic and Reconstructive Surgery	166
15941	Excision, ischial pressur	24	Plastic and Reconstructive Surgery	164
26615	Open treatment of meta	24	Plastic and Reconstructive Surgery	164
15788	Chemical peel, facial; ep	24	Plastic and Reconstructive Surgery	163

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24076	Excision, tumor, soft tiss	24	Plastic and Reconstructive Surgery	163
25118	Synovectomy, extensor	24	Plastic and Reconstructive Surgery	163
27301	Incision and drainage, d	24	Plastic and Reconstructive Surgery	162
21390	Open treatment of orbita	24	Plastic and Reconstructive Surgery	159
23077	Radical resection of tum	24	Plastic and Reconstructive Surgery	155
26531	Arthroplasty, metacarpo	24	Plastic and Reconstructive Surgery	153
28825	Amputation, toe; interph	24	Plastic and Reconstructive Surgery	151
26117	Radical resection of tum	24	Plastic and Reconstructive Surgery	150
40500	Vermilionectomy (lip sha	24	Plastic and Reconstructive Surgery	150
17107	Destruction of cutaneous	24	Plastic and Reconstructive Surgery	149
15934	Excision, sacral pressur	24	Plastic and Reconstructive Surgery	147
25028	Incision and drainage, fo	24	Plastic and Reconstructive Surgery	147
26600	Closed treatment of met	24	Plastic and Reconstructive Surgery	147
20912	Cartilage graft; nasal se	24	Plastic and Reconstructive Surgery	145
26500	Reconstruction of tendo	24	Plastic and Reconstructive Surgery	143
28120	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	141
35207	Repair blood vessel, dire	24	Plastic and Reconstructive Surgery	139
26720	Closed treatment of pha	24	Plastic and Reconstructive Surgery	138
15050	Pinch graft, single or mu	24	Plastic and Reconstructive Surgery	135
15944	Excision, ischial pressur	24	Plastic and Reconstructive Surgery	132
26236	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	132
25270	Repair, tendon or muscl	24	Plastic and Reconstructive Surgery	131
30140	Submucous resection in	24	Plastic and Reconstructive Surgery	131
40525	Excision of lip; full thick	24	Plastic and Reconstructive Surgery	126
30465	Repair of nasal vestibula	24	Plastic and Reconstructive Surgery	125
27327	Excision, tumor, thigh or	24	Plastic and Reconstructive Surgery	124
68320	Conjunctivoplasty; with c	24	Plastic and Reconstructive Surgery	124
27447	Arthroplasty, knee, cond	24	Plastic and Reconstructive Surgery	123
64702	Neuroplasty; digital, one	24	Plastic and Reconstructive Surgery	123
15600	Delay of flap or sectionir	24	Plastic and Reconstructive Surgery	121
27328	Excision, tumor, thigh or	24	Plastic and Reconstructive Surgery	120
19366	Breast reconstruction wi	24	Plastic and Reconstructive Surgery	119
26437	Realignment of extensor	24	Plastic and Reconstructive Surgery	119
26442	Tenolysis, flexor tendon	24	Plastic and Reconstructive Surgery	119
27618	Excision, tumor, leg or a	24	Plastic and Reconstructive Surgery	119
30120	Excision or surgical plan	24	Plastic and Reconstructive Surgery	119
25295	Tenolysis, flexor or exte	24	Plastic and Reconstructive Surgery	118
67923	Repair of entropion; exc	24	Plastic and Reconstructive Surgery	118
15150	Tissue cultured epiderm	24	Plastic and Reconstructive Surgery	117
26536	Arthroplasty, interphalan	24	Plastic and Reconstructive Surgery	116
25020	Decompression fasciotom	24	Plastic and Reconstructive Surgery	114
26370	Repair or advancement	24	Plastic and Reconstructive Surgery	114
17108	Destruction of cutaneous	24	Plastic and Reconstructive Surgery	113
26080	Arthrotomy, with explorat	24	Plastic and Reconstructive Surgery	113
26725	Closed treatment of pha	24	Plastic and Reconstructive Surgery	113
26750	Closed treatment of dist	24	Plastic and Reconstructive Surgery	113
23076	Excision, soft tissue tum	24	Plastic and Reconstructive Surgery	112
67911	Correction of lid retracti	24	Plastic and Reconstructive Surgery	111
30130	Excision inferior turbinat	24	Plastic and Reconstructive Surgery	110
21750	Closure of median stern	24	Plastic and Reconstructive Surgery	109
27329	Radical resection of tum	24	Plastic and Reconstructive Surgery	109
67921	Repair of entropion; sutu	24	Plastic and Reconstructive Surgery	109

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49585	Repair umbilical hernia,	24	Plastic and Reconstructive Surgery	108
15945	Excision, ischial pressur	24	Plastic and Reconstructive Surgery	107
35761	Exploration (not followe	24	Plastic and Reconstructive Surgery	107
20969	Free osteocutaneous fla	24	Plastic and Reconstructive Surgery	106
25290	Tenotomy, open, flexor e	24	Plastic and Reconstructive Surgery	104
28805	Amputation, foot; trans	24	Plastic and Reconstructive Surgery	104
37785	Ligation, division, and/or	24	Plastic and Reconstructive Surgery	103
19020	Mastotomy with explorat	24	Plastic and Reconstructive Surgery	102
25210	Carpectomy; one bone	24	Plastic and Reconstructive Surgery	102
25609	Open treatment of distal	24	Plastic and Reconstructive Surgery	101
21620	Ostectomy of sternum, p	24	Plastic and Reconstructive Surgery	99
25116	Radical excision of burs	24	Plastic and Reconstructive Surgery	99
67914	Repair of ectropion; sutu	24	Plastic and Reconstructive Surgery	98
15839	Excision, excessive skin	24	Plastic and Reconstructive Surgery	94
26591	Repair, intrinsic muscles	24	Plastic and Reconstructive Surgery	94
15832	Excision, excessive skin	24	Plastic and Reconstructive Surgery	93
19307	Mastectomy, modified ra	24	Plastic and Reconstructive Surgery	93
28046	Radical resection of tum	24	Plastic and Reconstructive Surgery	93
15840	Graft for facial nerve pa	24	Plastic and Reconstructive Surgery	92
26520	Capsulectomy or capsul	24	Plastic and Reconstructive Surgery	92
25320	Capsulorrhaphy or recor	24	Plastic and Reconstructive Surgery	91
26608	Percutaneous skeletal fi	24	Plastic and Reconstructive Surgery	91
30150	Rhinectomy; partial	24	Plastic and Reconstructive Surgery	91
26135	Synovectomy, metacarp	24	Plastic and Reconstructive Surgery	90
47562	Laparoscopy, surgical; c	24	Plastic and Reconstructive Surgery	90
15610	Delay of flap or sectionir	24	Plastic and Reconstructive Surgery	89
33533	Coronary artery bypass,	24	Plastic and Reconstructive Surgery	89
15335	Acellular dermal allograf	24	Plastic and Reconstructive Surgery	88
15758	Free fascial flap with mic	24	Plastic and Reconstructive Surgery	88
15155	Tissue cultured epiderm	24	Plastic and Reconstructive Surgery	88
22900	Excision, abdominal wal	24	Plastic and Reconstructive Surgery	87
26432	Closed treatment of dist	24	Plastic and Reconstructive Surgery	87
28003	Incision and drainage be	24	Plastic and Reconstructive Surgery	87
14350	Filletted finger or toe flap	24	Plastic and Reconstructive Surgery	86
42415	Excision of parotid tumo	24	Plastic and Reconstructive Surgery	86
26990	Incision and drainage, p	24	Plastic and Reconstructive Surgery	85
27619	Excision, tumor, leg or a	24	Plastic and Reconstructive Surgery	85
28122	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	85
67908	Repair of blepharoptosis	24	Plastic and Reconstructive Surgery	85
40652	Repair lip, full thickness	24	Plastic and Reconstructive Surgery	84
68700	Plastic repair of canalicu	24	Plastic and Reconstructive Surgery	83
64788	Excision of neurofibroma	24	Plastic and Reconstructive Surgery	82
25280	Lengthening or shortenin	24	Plastic and Reconstructive Surgery	81
26045	Fasciotomy, palmar (eg,	24	Plastic and Reconstructive Surgery	80
26320	Removal of implant from	24	Plastic and Reconstructive Surgery	80
26433	Repair of extensor tend	24	Plastic and Reconstructive Surgery	80
26785	Open treatment of interp	24	Plastic and Reconstructive Surgery	80
24105	Excision, olecranon burs	24	Plastic and Reconstructive Surgery	78
26756	Percutaneous skeletal fi	24	Plastic and Reconstructive Surgery	78
15933	Excision, sacral pressur	24	Plastic and Reconstructive Surgery	77
15950	Excision, trochanteric pr	24	Plastic and Reconstructive Surgery	77
15935	Excision, sacral pressur	24	Plastic and Reconstructive Surgery	76

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28008	Fasciotomy, foot and/or	24	Plastic and Reconstructive Surgery	76
49904	Omental flap, extra-abdo	24	Plastic and Reconstructive Surgery	76
19300	Mastectomy for gynecor	24	Plastic and Reconstructive Surgery	74
21337	Closed treatment of nas	24	Plastic and Reconstructive Surgery	74
26535	Arthroplasty, interphalan	24	Plastic and Reconstructive Surgery	74
26037	Decompressive fascioto	24	Plastic and Reconstructive Surgery	72
27640	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	72
35206	Repair blood vessel, dire	24	Plastic and Reconstructive Surgery	72
19301	Mastectomy, partial (eg,	24	Plastic and Reconstructive Surgery	70
67400	Orbitotomy without bone	24	Plastic and Reconstructive Surgery	70
21470	Open treatment of comp	24	Plastic and Reconstructive Surgery	69
49561	Repair initial incisional o	24	Plastic and Reconstructive Surgery	69
38724	Cervical lymphadenecto	24	Plastic and Reconstructive Surgery	68
67912	Correction of lagophthal	24	Plastic and Reconstructive Surgery	67
40530	Resection of lip, more th	24	Plastic and Reconstructive Surgery	66
38745	Axillary lymphadenecton	24	Plastic and Reconstructive Surgery	64
64820	Sympathectomy; digital	24	Plastic and Reconstructive Surgery	64
67935	Suture of recent wound,	24	Plastic and Reconstructive Surgery	64
26426	Repair of extensor tend	24	Plastic and Reconstructive Surgery	63
26593	Release, intrinsic muscl	24	Plastic and Reconstructive Surgery	63
25600	Closed treatment of dist	24	Plastic and Reconstructive Surgery	62
26025	Drainage of palmar burs	24	Plastic and Reconstructive Surgery	62
49566	Repair recurrent incision	24	Plastic and Reconstructive Surgery	62
61500	Craniectomy; with excisi	24	Plastic and Reconstructive Surgery	62
11462	Excision of skin and sub	24	Plastic and Reconstructive Surgery	61
26605	Closed treatment of met	24	Plastic and Reconstructive Surgery	61
27130	Arthroplasty, acetabular	24	Plastic and Reconstructive Surgery	61
64774	Excision of neuroma; cu	24	Plastic and Reconstructive Surgery	61
64716	Neuroplasty and/or trans	24	Plastic and Reconstructive Surgery	60
15836	Excision, excessive skin	24	Plastic and Reconstructive Surgery	59
27048	Excision, tumor, pelvis a	24	Plastic and Reconstructive Surgery	59
15781	Dermabrasion; segment	24	Plastic and Reconstructive Surgery	58
26485	Transfer or transplant of	24	Plastic and Reconstructive Surgery	58
26140	Synovectomy, proximal	24	Plastic and Reconstructive Surgery	57
38760	Inguinofemoral lymphad	24	Plastic and Reconstructive Surgery	57
67880	Construction of intermar	24	Plastic and Reconstructive Surgery	57
28118	Ostectomy, calcaneus;	24	Plastic and Reconstructive Surgery	56
11450	Excision of skin and sub	24	Plastic and Reconstructive Surgery	55
26075	Arthrotomy, with explor	24	Plastic and Reconstructive Surgery	55
26548	Repair and reconstructio	24	Plastic and Reconstructive Surgery	55
25608	Open treatment of distal	24	Plastic and Reconstructive Surgery	55
49505	Repair initial inguinal he	24	Plastic and Reconstructive Surgery	54
11470	Excision of skin and sub	24	Plastic and Reconstructive Surgery	53
15922	Excision, coccygeal pres	24	Plastic and Reconstructive Surgery	53
21407	Open treatment of fractu	24	Plastic and Reconstructive Surgery	53
25112	Excision of ganglion, wri	24	Plastic and Reconstructive Surgery	53
21825	Open treatment of stern	24	Plastic and Reconstructive Surgery	52
26060	Tenotomy, percutaneous	24	Plastic and Reconstructive Surgery	52
64834	Suture of one nerve; har	24	Plastic and Reconstructive Surgery	52
67975	Reconstruction of eyelid	24	Plastic and Reconstructive Surgery	52
26235	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	51
30420	Rhinoplasty, primary; inc	24	Plastic and Reconstructive Surgery	51

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26034	Incision, bone cortex, ha	24	Plastic and Reconstructive Surgery	50
27047	Excision, tumor, pelvis a	24	Plastic and Reconstructive Surgery	50
21453	Closed treatment of mar	24	Plastic and Reconstructive Surgery	49
64856	Suture of major peripher	24	Plastic and Reconstructive Surgery	49
21029	Removal by contouring c	24	Plastic and Reconstructive Surgery	48
25605	Closed treatment of dist	24	Plastic and Reconstructive Surgery	48
26740	Closed treatment of artic	24	Plastic and Reconstructive Surgery	48
42410	Excision of parotid tumo	24	Plastic and Reconstructive Surgery	48
15650	Transfer, intermediate, c	24	Plastic and Reconstructive Surgery	47
21280	Medial canthopexy (sep	24	Plastic and Reconstructive Surgery	47
27049	Radical resection of tum	24	Plastic and Reconstructive Surgery	47
29846	Arthroscopy, wrist, surgi	24	Plastic and Reconstructive Surgery	47
67901	Repair of blepharoptosis	24	Plastic and Reconstructive Surgery	47
11451	Excision of skin and sub	24	Plastic and Reconstructive Surgery	46
27596	Amputation, thigh, throu	24	Plastic and Reconstructive Surgery	46
68750	Conjunctivorhinostomy (	24	Plastic and Reconstructive Surgery	46
25240	Excision distal ulna parti	24	Plastic and Reconstructive Surgery	45
26850	Arthrodesis, metacarpop	24	Plastic and Reconstructive Surgery	45
27886	Amputation, leg, through	24	Plastic and Reconstructive Surgery	45
27600	Decompression fasciotom	24	Plastic and Reconstructive Surgery	44
67971	Reconstruction of eyelid	24	Plastic and Reconstructive Surgery	44
21462	Open treatment of mand	24	Plastic and Reconstructive Surgery	43
26455	Tenotomy, flexor, finger	24	Plastic and Reconstructive Surgery	43
27641	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	43
19125	Excision of breast lesion	24	Plastic and Reconstructive Surgery	42
21335	Open treatment of nasal	24	Plastic and Reconstructive Surgery	42
26450	Tenotomy, flexor, palm,	24	Plastic and Reconstructive Surgery	42
27070	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	42
28043	Excision, tumor, foot; su	24	Plastic and Reconstructive Surgery	42
35860	Exploration for postoper	24	Plastic and Reconstructive Surgery	42
64776	Excision of neuroma; dig	24	Plastic and Reconstructive Surgery	42
67973	Reconstruction of eyelid	24	Plastic and Reconstructive Surgery	42
21330	Open treatment of nasal	24	Plastic and Reconstructive Surgery	41
25215	Carpectomy; all bones c	24	Plastic and Reconstructive Surgery	41
26460	Tenotomy, extensor, ha	24	Plastic and Reconstructive Surgery	41
15834	Excision, excessive skin	24	Plastic and Reconstructive Surgery	40
21461	Open treatment of mand	24	Plastic and Reconstructive Surgery	40
30400	Rhinoplasty, primary; lat	24	Plastic and Reconstructive Surgery	40
38740	Axillary lymphadenectom	24	Plastic and Reconstructive Surgery	40
64782	Excision of neuroma; ha	24	Plastic and Reconstructive Surgery	40
21230	Graft; rib cartilage, autog	24	Plastic and Reconstructive Surgery	39
26030	Drainage of palmar burs	24	Plastic and Reconstructive Surgery	39
26110	Arthrotomy with biopsy;	24	Plastic and Reconstructive Surgery	39
26755	Closed treatment of dist	24	Plastic and Reconstructive Surgery	39
64857	Suture of major peripher	24	Plastic and Reconstructive Surgery	39
15952	Excision, trochanteric pr	24	Plastic and Reconstructive Surgery	38
21360	Open treatment of depre	24	Plastic and Reconstructive Surgery	38
40650	Repair lip, full thickness	24	Plastic and Reconstructive Surgery	38
16035	Escharotomy; initial incis	24	Plastic and Reconstructive Surgery	37
21026	Excision of bone (eg, fo	24	Plastic and Reconstructive Surgery	37
21325	Open treatment of nasal	24	Plastic and Reconstructive Surgery	37
21386	Open treatment of orbita	24	Plastic and Reconstructive Surgery	37

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24305	Tendon lengthening, up	24	Plastic and Reconstructive Surgery	37
26180	Excision of tendon, finger	24	Plastic and Reconstructive Surgery	37
28005	Incision, bone cortex (exc	24	Plastic and Reconstructive Surgery	37
38542	Dissection, deep jugular	24	Plastic and Reconstructive Surgery	37
67412	Orbitotomy without bone	24	Plastic and Reconstructive Surgery	37
20910	Cartilage graft; costoch	24	Plastic and Reconstructive Surgery	36
21198	Osteotomy, mandible, s	24	Plastic and Reconstructive Surgery	36
27360	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	36
28140	Metatarsectomy	24	Plastic and Reconstructive Surgery	36
41112	Excision of lesion of ton	24	Plastic and Reconstructive Surgery	36
26775	Closed treatment of inte	24	Plastic and Reconstructive Surgery	35
27244	Treatment of intertrocha	24	Plastic and Reconstructive Surgery	35
31205	Ethmoidectomy; extrana	24	Plastic and Reconstructive Surgery	35
64722	Decompression; unspec	24	Plastic and Reconstructive Surgery	35
26530	Arthroplasty, metacarp	24	Plastic and Reconstructive Surgery	34
26715	Open treatment of meta	24	Plastic and Reconstructive Surgery	34
69150	Radical excision externa	24	Plastic and Reconstructive Surgery	34
25066	Biopsy, soft tissue of fo	24	Plastic and Reconstructive Surgery	33
25105	Arthrotomy, wrist joint; w	24	Plastic and Reconstructive Surgery	33
26471	Tenodesis; of proximal i	24	Plastic and Reconstructive Surgery	33
27122	Acetabuloplasty; resecti	24	Plastic and Reconstructive Surgery	33
35820	Exploration for postoper	24	Plastic and Reconstructive Surgery	33
64864	Suture of facial nerve; e	24	Plastic and Reconstructive Surgery	33
21208	Osteoplasty, facial bone	24	Plastic and Reconstructive Surgery	32
26992	Incision, bone cortex, pe	24	Plastic and Reconstructive Surgery	32
44120	Enterectomy, resection	24	Plastic and Reconstructive Surgery	32
25110	Excision, lesion of tend	24	Plastic and Reconstructive Surgery	31
25900	Amputation, forearm, thi	24	Plastic and Reconstructive Surgery	31
26545	Reconstruction, collater	24	Plastic and Reconstructive Surgery	31
37618	Ligation, major artery (e	24	Plastic and Reconstructive Surgery	31
40527	Excision of lip; full thick	24	Plastic and Reconstructive Surgery	31
25825	Arthrodesis, wrist; with a	24	Plastic and Reconstructive Surgery	30
26862	Arthrodesis, interphalan	24	Plastic and Reconstructive Surgery	30
27041	Biopsy, soft tissue of pe	24	Plastic and Reconstructive Surgery	30
27690	Transfer or transplant of	24	Plastic and Reconstructive Surgery	30
15920	Excision, coccygeal pres	24	Plastic and Reconstructive Surgery	29
20694	Removal, under anesthe	24	Plastic and Reconstructive Surgery	29
20900	Bone graft, any donor ar	24	Plastic and Reconstructive Surgery	29
21422	Open treatment of palat	24	Plastic and Reconstructive Surgery	29
23420	Reconstruction of comp	24	Plastic and Reconstructive Surgery	29
27236	Open treatment of femo	24	Plastic and Reconstructive Surgery	29
30620	Septal or other intranas	24	Plastic and Reconstructive Surgery	29
33222	Revision or relocation of	24	Plastic and Reconstructive Surgery	29
35301	Thromboendarterectomy	24	Plastic and Reconstructive Surgery	29
63047	Laminectomy, facetecto	24	Plastic and Reconstructive Surgery	29
25101	Arthrotomy, wrist joint; w	24	Plastic and Reconstructive Surgery	28
25445	Arthroplasty with prosthe	24	Plastic and Reconstructive Surgery	28
26035	Decompression fingers	24	Plastic and Reconstructive Surgery	28
26516	Capsulodesis, metacarp	24	Plastic and Reconstructive Surgery	28
26841	Arthrodesis, carpometac	24	Plastic and Reconstructive Surgery	28
27882	Amputation, leg, through	24	Plastic and Reconstructive Surgery	28
35701	Exploration (not followe	24	Plastic and Reconstructive Surgery	28

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60220	Total thyroid lobectomy,	24	Plastic and Reconstructive Surgery	28
64771	Transection or avulsion	24	Plastic and Reconstructive Surgery	28
67550	Orbital implant (implant	24	Plastic and Reconstructive Surgery	28
25607	Open treatment of distal	24	Plastic and Reconstructive Surgery	27
15365	Tissue cultured allogene	24	Plastic and Reconstructive Surgery	27
20924	Tendon graft, from a dis	24	Plastic and Reconstructive Surgery	27
20955	Bone graft with microvas	24	Plastic and Reconstructive Surgery	27
22612	Arthrodesis, posterior or	24	Plastic and Reconstructive Surgery	27
25040	Arthrotomy, radiocarpal	24	Plastic and Reconstructive Surgery	27
25312	Tendon transplantation o	24	Plastic and Reconstructive Surgery	27
25332	Arthroplasty, wrist, with	24	Plastic and Reconstructive Surgery	27
26742	Closed treatment of artic	24	Plastic and Reconstructive Surgery	27
26776	Percutaneous skeletal fi	24	Plastic and Reconstructive Surgery	27
27080	Coccygectomy, primary	24	Plastic and Reconstructive Surgery	27
30430	Rhinoplasty, secondary;	24	Plastic and Reconstructive Surgery	27
57282	Colpopexy, vaginal; extr	24	Plastic and Reconstructive Surgery	27
15360	Tissue cultured allogene	24	Plastic and Reconstructive Surgery	26
15951	Excision, trochanteric pr	24	Plastic and Reconstructive Surgery	26
21347	Open treatment of naso	24	Plastic and Reconstructive Surgery	26
23472	Arthroplasty, glenohume	24	Plastic and Reconstructive Surgery	26
24341	Repair, tendon or muscl	24	Plastic and Reconstructive Surgery	26
25230	Radial styloidectomy (se	24	Plastic and Reconstructive Surgery	26
26449	Tenolysis, complex, exte	24	Plastic and Reconstructive Surgery	26
27614	Biopsy, soft tissue of leg	24	Plastic and Reconstructive Surgery	26
28124	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	26
44140	Colectomy, partial; with	24	Plastic and Reconstructive Surgery	26
47600	Cholecystectomy;	24	Plastic and Reconstructive Surgery	26
49587	Repair umbilical hernia,	24	Plastic and Reconstructive Surgery	26
57240	Anterior colporrhaphy, re	24	Plastic and Reconstructive Surgery	26
62141	Cranioplasty for skull de	24	Plastic and Reconstructive Surgery	26
69120	Excision external ear; co	24	Plastic and Reconstructive Surgery	26
11463	Excision of skin and sub	24	Plastic and Reconstructive Surgery	25
15792	Chemical peel, nonfacia	24	Plastic and Reconstructive Surgery	25
21244	Reconstruction of mand	24	Plastic and Reconstructive Surgery	25
23120	Claviculectomy; partial	24	Plastic and Reconstructive Surgery	25
25606	Percutaneous skeletal fi	24	Plastic and Reconstructive Surgery	25
26200	Excision or curettage of	24	Plastic and Reconstructive Surgery	25
35236	Repair blood vessel with	24	Plastic and Reconstructive Surgery	25
69714	Implantation, osseointeg	24	Plastic and Reconstructive Surgery	25
11471	Excision of skin and sub	24	Plastic and Reconstructive Surgery	24
19304	Mastectomy, subcutane	24	Plastic and Reconstructive Surgery	24
26477	Shortening of tendon, ex	24	Plastic and Reconstructive Surgery	24
26541	Reconstruction, collatera	24	Plastic and Reconstructive Surgery	24
26607	Closed treatment of met	24	Plastic and Reconstructive Surgery	24
27884	Amputation, leg, through	24	Plastic and Reconstructive Surgery	24
29826	Arthroscopy, shoulder, s	24	Plastic and Reconstructive Surgery	24
42953	Pharyngoesophageal re	24	Plastic and Reconstructive Surgery	24
61501	Craniectomy; for osteom	24	Plastic and Reconstructive Surgery	24
68326	Conjunctivoplasty, recor	24	Plastic and Reconstructive Surgery	24
20690	Application of a uniplane	24	Plastic and Reconstructive Surgery	23
21025	Excision of bone (eg, for	24	Plastic and Reconstructive Surgery	23
21030	Excision of benign tumo	24	Plastic and Reconstructive Surgery	23

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21210	Graft, bone; nasal, maxil	24	Plastic and Reconstructive Surgery	23
26070	Arthrotomy, with explora	24	Plastic and Reconstructive Surgery	23
37760	Ligation of perforator ve	24	Plastic and Reconstructive Surgery	23
38308	Lymphangiectomy or othe	24	Plastic and Reconstructive Surgery	23
42420	Excision of parotid tumo	24	Plastic and Reconstructive Surgery	23
44005	Enterolysis (freeing of in	24	Plastic and Reconstructive Surgery	23
64890	Nerve graft (includes ob	24	Plastic and Reconstructive Surgery	23
28045	Excision, tumor, foot; de	24	Plastic and Reconstructive Surgery	22
35201	Repair blood vessel, dire	24	Plastic and Reconstructive Surgery	22
38700	Suprahyoid lymphadene	24	Plastic and Reconstructive Surgery	22
57288	Sling operation for stres	24	Plastic and Reconstructive Surgery	22
15835	Excision, excessive skin	24	Plastic and Reconstructive Surgery	21
21406	Open treatment of fractu	24	Plastic and Reconstructive Surgery	21
26130	Synovectomy, carpomet	24	Plastic and Reconstructive Surgery	21
26230	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	21
26478	Lengthening of tendon, f	24	Plastic and Reconstructive Surgery	21
26542	Reconstruction, collater	24	Plastic and Reconstructive Surgery	21
26650	Percutaneous skeletal fi	24	Plastic and Reconstructive Surgery	21
26770	Closed treatment of inte	24	Plastic and Reconstructive Surgery	21
27071	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	21
28060	Fasciectomy, plantar fas	24	Plastic and Reconstructive Surgery	21
28090	Excision of lesion, tend	24	Plastic and Reconstructive Surgery	21
28234	Tenotomy, open, extens	24	Plastic and Reconstructive Surgery	21
28800	Amputation, foot; midtar	24	Plastic and Reconstructive Surgery	21
33223	Revision of skin pocket	24	Plastic and Reconstructive Surgery	21
35231	Repair blood vessel with	24	Plastic and Reconstructive Surgery	21
37765	Stab phlebectomy of var	24	Plastic and Reconstructive Surgery	21
19369	Breast reconstruction wi	24	Plastic and Reconstructive Surgery	20
21400	Closed treatment of frac	24	Plastic and Reconstructive Surgery	20
21925	Biopsy, soft tissue of ba	24	Plastic and Reconstructive Surgery	20
25810	Arthrodesis, wrist; with il	24	Plastic and Reconstructive Surgery	20
26357	Repair or advancement,	24	Plastic and Reconstructive Surgery	20
26412	Repair, extensor tendon	24	Plastic and Reconstructive Surgery	20
26510	Cross intrinsic transfer,	24	Plastic and Reconstructive Surgery	20
27324	Biopsy, soft tissue of thi	24	Plastic and Reconstructive Surgery	20
30410	Rhinoplasty, primary; co	24	Plastic and Reconstructive Surgery	20
30450	Rhinoplasty, secondary;	24	Plastic and Reconstructive Surgery	20
42440	Excision of submandibu	24	Plastic and Reconstructive Surgery	20
64713	Neuroplasty, major perip	24	Plastic and Reconstructive Surgery	20
15820	Blepharoplasty, lower ey	24	Plastic and Reconstructive Surgery	19
15821	Blepharoplasty, lower ey	24	Plastic and Reconstructive Surgery	19
19302	Mastectomy, partial (eg,	24	Plastic and Reconstructive Surgery	19
20902	Bone graft, any donor ar	24	Plastic and Reconstructive Surgery	19
21423	Open treatment of palat	24	Plastic and Reconstructive Surgery	19
25023	Decompression fascioto	24	Plastic and Reconstructive Surgery	19
25263	Repair, tendon or muscl	24	Plastic and Reconstructive Surgery	19
25272	Repair, tendon or muscl	24	Plastic and Reconstructive Surgery	19
25315	Flexor origin slide (eg, f	24	Plastic and Reconstructive Surgery	19
26508	Release of thenar musc	24	Plastic and Reconstructive Surgery	19
28111	Ostectomy, complete ex	24	Plastic and Reconstructive Surgery	19
31200	Ethmoidectomy; intranas	24	Plastic and Reconstructive Surgery	19
35226	Repair blood vessel, dire	24	Plastic and Reconstructive Surgery	19

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64790	Excision of neurofibroma	24	Plastic and Reconstructive Surgery	19
67882	Construction of intermar	24	Plastic and Reconstructive Surgery	19
20922	Fascia lata graft; by inc	24	Plastic and Reconstructive Surgery	18
21336	Open treatment of nasal	24	Plastic and Reconstructive Surgery	18
27598	Disarticulation at knee	24	Plastic and Reconstructive Surgery	18
35840	Exploration for postoper	24	Plastic and Reconstructive Surgery	18
38520	Biopsy or excision of lym	24	Plastic and Reconstructive Surgery	18
38720	Cervical lymphadenecto	24	Plastic and Reconstructive Surgery	18
44143	Colectomy, partial; with	24	Plastic and Reconstructive Surgery	18
64792	Excision of neurofibroma	24	Plastic and Reconstructive Surgery	18
65093	Evisceration of ocular co	24	Plastic and Reconstructive Surgery	18
68328	Conjunctivoplasty, recor	24	Plastic and Reconstructive Surgery	18
21338	Open treatment of naso	24	Plastic and Reconstructive Surgery	17
42950	Pharyngoplasty (plastic	24	Plastic and Reconstructive Surgery	17
11772	Excision of pilonidal cys	24	Plastic and Reconstructive Surgery	16
15845	Graft for facial nerve pa	24	Plastic and Reconstructive Surgery	16
15953	Excision, trochanteric pr	24	Plastic and Reconstructive Surgery	16
26352	Repair or advancement,	24	Plastic and Reconstructive Surgery	16
26502	Reconstruction of tendo	24	Plastic and Reconstructive Surgery	16
27487	Revision of total knee ar	24	Plastic and Reconstructive Surgery	16
33405	Replacement, aortic valv	24	Plastic and Reconstructive Surgery	16
40814	Excision of lesion of mu	24	Plastic and Reconstructive Surgery	16
47563	Laparoscopy, surgical; c	24	Plastic and Reconstructive Surgery	16
60500	Parathyroidectomy or ex	24	Plastic and Reconstructive Surgery	16
62140	Cranioplasty for skull de	24	Plastic and Reconstructive Surgery	16
64772	Transection or avulsion	24	Plastic and Reconstructive Surgery	16
64886	Nerve graft (includes ob	24	Plastic and Reconstructive Surgery	16
67808	Excision of chalazion; un	24	Plastic and Reconstructive Surgery	16
25120	Excision or curettage of	24	Plastic and Reconstructive Surgery	15
25248	Exploration with remova	24	Plastic and Reconstructive Surgery	15
25630	Closed treatment of carp	24	Plastic and Reconstructive Surgery	15
26262	Radical resection, distal	24	Plastic and Reconstructive Surgery	15
26706	Percutaneous skeletal fi	24	Plastic and Reconstructive Surgery	15
27295	Disarticulation of hip	24	Plastic and Reconstructive Surgery	15
27602	Decompression fascioto	24	Plastic and Reconstructive Surgery	15
33208	Insertion or replacement	24	Plastic and Reconstructive Surgery	15
35800	Exploration for postoper	24	Plastic and Reconstructive Surgery	15
67909	Reduction of overcorrec	24	Plastic and Reconstructive Surgery	15
23410	Repair of ruptured musc	24	Plastic and Reconstructive Surgery	14
24066	Biopsy, soft tissue of up	24	Plastic and Reconstructive Surgery	14
25130	Excision or curettage of	24	Plastic and Reconstructive Surgery	14
26415	Excision of extensor ten	24	Plastic and Reconstructive Surgery	14
26496	Opponensplasty; other r	24	Plastic and Reconstructive Surgery	14
26567	Osteotomy; phalanx of f	24	Plastic and Reconstructive Surgery	14
26665	Open treatment of carpo	24	Plastic and Reconstructive Surgery	14
26705	Closed treatment of met	24	Plastic and Reconstructive Surgery	14
26852	Arthrodesis, metacarpop	24	Plastic and Reconstructive Surgery	14
27060	Excision; ischial bursa	24	Plastic and Reconstructive Surgery	14
27340	Excision, prepatellar bur	24	Plastic and Reconstructive Surgery	14
27385	Suture of quadriceps or	24	Plastic and Reconstructive Surgery	14
28112	Ostectomy, complete ex	24	Plastic and Reconstructive Surgery	14
35721	Exploration (not followe	24	Plastic and Reconstructive Surgery	14

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40816	Excision of lesion of mu	24	Plastic and Reconstructive Surgery	14
42426	Excision of parotid tumo	24	Plastic and Reconstructive Surgery	14
69145	Excision soft tissue lesio	24	Plastic and Reconstructive Surgery	14
21215	Graft, bone; mandible (in	24	Plastic and Reconstructive Surgery	13
21387	Open treatment of orbita	24	Plastic and Reconstructive Surgery	13
25622	Closed treatment of carpi	24	Plastic and Reconstructive Surgery	13
25920	Disarticulation through v	24	Plastic and Reconstructive Surgery	13
25927	Transmetacarpal amput	24	Plastic and Reconstructive Surgery	13
26170	Excision of tendon, palm	24	Plastic and Reconstructive Surgery	13
27035	Denervation, hip joint, in	24	Plastic and Reconstructive Surgery	13
29840	Arthroscopy, wrist, diagn	24	Plastic and Reconstructive Surgery	13
30117	Excision or destruction (	24	Plastic and Reconstructive Surgery	13
30435	Rhinoplasty, secondary;	24	Plastic and Reconstructive Surgery	13
33241	Subcutaneous removal	24	Plastic and Reconstructive Surgery	13
35876	Thrombectomy of arteria	24	Plastic and Reconstructive Surgery	13
37722	Ligation, division, and st	24	Plastic and Reconstructive Surgery	13
43280	Laparoscopy, surgical, e	24	Plastic and Reconstructive Surgery	13
44160	Colectomy, partial, with	24	Plastic and Reconstructive Surgery	13
49650	Laparoscopy, surgical; r	24	Plastic and Reconstructive Surgery	13
62142	Removal of bone flap or	24	Plastic and Reconstructive Surgery	13
15833	Excision, excessive skin	24	Plastic and Reconstructive Surgery	12
20822	Replantation, digit, exclu	24	Plastic and Reconstructive Surgery	12
21196	Reconstruction of mand	24	Plastic and Reconstructive Surgery	12
21209	Osteoplasty, facial bone	24	Plastic and Reconstructive Surgery	12
21395	Open treatment of orbita	24	Plastic and Reconstructive Surgery	12
22554	Arthrodesis, anterior inte	24	Plastic and Reconstructive Surgery	12
23550	Open treatment of acrom	24	Plastic and Reconstructive Surgery	12
25024	Decompression fasciot	24	Plastic and Reconstructive Surgery	12
25301	Tenodesis at wrist; exte	24	Plastic and Reconstructive Surgery	12
27310	Arthrotomy, knee, with e	24	Plastic and Reconstructive Surgery	12
27594	Amputation, thigh, throu	24	Plastic and Reconstructive Surgery	12
27630	Excision of lesion of ten	24	Plastic and Reconstructive Surgery	12
27889	Ankle disarticulation	24	Plastic and Reconstructive Surgery	12
30600	Repair fistula; oronasal	24	Plastic and Reconstructive Surgery	12
33233	Removal of permanent p	24	Plastic and Reconstructive Surgery	12
37617	Ligation, major artery (e	24	Plastic and Reconstructive Surgery	12
37766	Stab phlebectomy of var	24	Plastic and Reconstructive Surgery	12
60240	Thyroidectomy, total or c	24	Plastic and Reconstructive Surgery	12
62350	Implantation, revision or	24	Plastic and Reconstructive Surgery	12
64742	Transection or avulsion	24	Plastic and Reconstructive Surgery	12
64822	Sympathectomy; ulnar a	24	Plastic and Reconstructive Surgery	12
67255	Scleral reinforcement (s	24	Plastic and Reconstructive Surgery	12
32480	Removal of lung, other t	24	Plastic and Reconstructive Surgery	11
19271	Excision of chest wall tu	24	Plastic and Reconstructive Surgery	11
19355	Correction of inverted ni	24	Plastic and Reconstructive Surgery	11
20920	Fascia lata graft; by strip	24	Plastic and Reconstructive Surgery	11
21346	Open treatment of naso	24	Plastic and Reconstructive Surgery	11
21510	Incision, deep, with oper	24	Plastic and Reconstructive Surgery	11
23105	Arthrotomy; glenohumer	24	Plastic and Reconstructive Surgery	11
24301	Muscle or tendon transfe	24	Plastic and Reconstructive Surgery	11
26420	Repair, extensor tendon	24	Plastic and Reconstructive Surgery	11
26479	Shortening of tendon, fle	24	Plastic and Reconstructive Surgery	11

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26490	Opponensplasty; super	24	Plastic and Reconstructive Surgery	11
26546	Repair non-union, metac	24	Plastic and Reconstructive Surgery	11
26842	Arthrodesis, carpometac	24	Plastic and Reconstructive Surgery	11
27078	Radical resection of tum	24	Plastic and Reconstructive Surgery	11
27125	Hemiarthroplasty, hip, p	24	Plastic and Reconstructive Surgery	11
27303	Incision, deep, with oper	24	Plastic and Reconstructive Surgery	11
28150	Phalangectomy, toe, ea	24	Plastic and Reconstructive Surgery	11
30124	Excision dermoid cyst, n	24	Plastic and Reconstructive Surgery	11
31614	Tracheostoma revision;	24	Plastic and Reconstructive Surgery	11
38530	Biopsy or excision of lym	24	Plastic and Reconstructive Surgery	11
39010	Mediastinotomy with exp	24	Plastic and Reconstructive Surgery	11
39502	Repair, paraesophageal	24	Plastic and Reconstructive Surgery	11
44145	Colectomy, partial; with	24	Plastic and Reconstructive Surgery	11
49570	Repair epigastric hernia	24	Plastic and Reconstructive Surgery	11
64835	Suture of one nerve; me	24	Plastic and Reconstructive Surgery	11
64836	Suture of one nerve; uln	24	Plastic and Reconstructive Surgery	11
67420	Orbitotomy with bone fla	24	Plastic and Reconstructive Surgery	11
69310	Reconstruction of exterr	24	Plastic and Reconstructive Surgery	11
19368	Breast reconstruction wi	24	Plastic and Reconstructive Surgery	10
21040	Excision of benign tumo	24	Plastic and Reconstructive Surgery	10
22102	Partial excision of poste	24	Plastic and Reconstructive Surgery	10
23615	Open treatment of proxi	24	Plastic and Reconstructive Surgery	10
25300	Tenodesis at wrist; flexo	24	Plastic and Reconstructive Surgery	10
25337	Reconstruction for stabl	24	Plastic and Reconstructive Surgery	10
25446	Arthroplasty with prosth	24	Plastic and Reconstructive Surgery	10
26358	Repair or advancement,	24	Plastic and Reconstructive Surgery	10
26474	Tenodesis; of distal joint	24	Plastic and Reconstructive Surgery	10
26483	Transfer or transplant of	24	Plastic and Reconstructive Surgery	10
26565	Osteotomy; metacarpal,	24	Plastic and Reconstructive Surgery	10
26685	Open treatment of carpo	24	Plastic and Reconstructive Surgery	10
27025	Fasciotomy, hip or thigh	24	Plastic and Reconstructive Surgery	10
27601	Decompression fascioto	24	Plastic and Reconstructive Surgery	10
28092	Excision of lesion, tend	24	Plastic and Reconstructive Surgery	10
28113	Ostectomy, complete ex	24	Plastic and Reconstructive Surgery	10
29881	Arthroscopy, knee, surg	24	Plastic and Reconstructive Surgery	10
30118	Excision or destruction (	24	Plastic and Reconstructive Surgery	10
31020	Sinusotomy, maxillary (a	24	Plastic and Reconstructive Surgery	10
33430	Replacement, mitral valv	24	Plastic and Reconstructive Surgery	10
40720	Plastic repair of cleft lip/	24	Plastic and Reconstructive Surgery	10
40761	Plastic repair of cleft lip/	24	Plastic and Reconstructive Surgery	10
40818	Excision of mucosa of v	24	Plastic and Reconstructive Surgery	10
43644	Laparoscopy, surgical, c	24	Plastic and Reconstructive Surgery	10
44346	Revision of colostomy; v	24	Plastic and Reconstructive Surgery	10
49002	Reopening of recent lap	24	Plastic and Reconstructive Surgery	10
63075	Discectomy, anterior, wi	24	Plastic and Reconstructive Surgery	10
64821	Sympathectomy; radial a	24	Plastic and Reconstructive Surgery	10
66821	Discission of secondary	24	Plastic and Reconstructive Surgery	10
19324	Mammoplasty, augment	24	Plastic and Reconstructive Surgery	9
21181	Reconstruction by conto	24	Plastic and Reconstructive Surgery	9
21343	Open treatment of depre	24	Plastic and Reconstructive Surgery	9
22015	Incision and drainage, o	24	Plastic and Reconstructive Surgery	9
25001	Incision, flexor tendon s	24	Plastic and Reconstructive Surgery	9

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25390	Osteoplasty, radius OR	24	Plastic and Reconstructive Surgery	9
25449	Revision of arthroplasty,	24	Plastic and Reconstructive Surgery	9
25628	Open treatment of carpa	24	Plastic and Reconstructive Surgery	9
28110	Ostectomy, partial excis	24	Plastic and Reconstructive Surgery	9
29827	Arthroscopy, shoulder, s	24	Plastic and Reconstructive Surgery	9
30160	Rhinectomy; total	24	Plastic and Reconstructive Surgery	9
30580	Repair fistula; oromaxilla	24	Plastic and Reconstructive Surgery	9
31613	Tracheostoma revision;	24	Plastic and Reconstructive Surgery	9
32900	Resection of ribs, extrap	24	Plastic and Reconstructive Surgery	9
33030	Pericardiectomy, subtot	24	Plastic and Reconstructive Surgery	9
35656	Bypass graft, with other	24	Plastic and Reconstructive Surgery	9
35903	Excision of infected graf	24	Plastic and Reconstructive Surgery	9
40845	Vestibuloplasty; comple	24	Plastic and Reconstructive Surgery	9
42425	Excision of parotid tumo	24	Plastic and Reconstructive Surgery	9
43496	Free jejunum transfer w	24	Plastic and Reconstructive Surgery	9
46040	Incision and drainage of	24	Plastic and Reconstructive Surgery	9
49020	Drainage of peritoneal a	24	Plastic and Reconstructive Surgery	9
49402	Removal of peritoneal fo	24	Plastic and Reconstructive Surgery	9
55150	Resection of scrotum	24	Plastic and Reconstructive Surgery	9
62362	Implantation or replacen	24	Plastic and Reconstructive Surgery	9
67902	Repair of blepharoptosis	24	Plastic and Reconstructive Surgery	9
19260	Excision of chest wall tu	24	Plastic and Reconstructive Surgery	8
20692	Application of a multipla	24	Plastic and Reconstructive Surgery	8
21034	Excision of malignant tu	24	Plastic and Reconstructive Surgery	8
21110	Application of interdenta	24	Plastic and Reconstructive Surgery	8
21245	Reconstruction of mand	24	Plastic and Reconstructive Surgery	8
21275	Secondary revision of or	24	Plastic and Reconstructive Surgery	8
21450	Closed treatment of mar	24	Plastic and Reconstructive Surgery	8
25025	Decompression fasciot	24	Plastic and Reconstructive Surgery	8
25150	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	8
25151	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	8
25265	Repair, tendon or muscl	24	Plastic and Reconstructive Surgery	8
25545	Open treatment of ulnar	24	Plastic and Reconstructive Surgery	8
25800	Arthrodesis, wrist; comp	24	Plastic and Reconstructive Surgery	8
26260	Radical resection, proxim	24	Plastic and Reconstructive Surgery	8
26390	Excision flexor tendon, v	24	Plastic and Reconstructive Surgery	8
27062	Excision; trochanteric bu	24	Plastic and Reconstructive Surgery	8
27610	Arthrotomy, ankle, includ	24	Plastic and Reconstructive Surgery	8
27894	Decompression fasciot	24	Plastic and Reconstructive Surgery	8
28315	Sesamoidectomy, first to	24	Plastic and Reconstructive Surgery	8
29823	Arthroscopy, shoulder, s	24	Plastic and Reconstructive Surgery	8
29824	Arthroscopy, shoulder, s	24	Plastic and Reconstructive Surgery	8
29880	Arthroscopy, knee, surg	24	Plastic and Reconstructive Surgery	8
30630	Repair nasal septal perf	24	Plastic and Reconstructive Surgery	8
32820	Major reconstruction, ch	24	Plastic and Reconstructive Surgery	8
37620	Interruption, partial or c	24	Plastic and Reconstructive Surgery	8
37718	Ligation, division, and st	24	Plastic and Reconstructive Surgery	8
38765	Inguinofemoral lymphad	24	Plastic and Reconstructive Surgery	8
41113	Excision of lesion of ton	24	Plastic and Reconstructive Surgery	8
41116	Excision, lesion of floor	24	Plastic and Reconstructive Surgery	8
42145	Palatopharyngoplasty (e	24	Plastic and Reconstructive Surgery	8
42810	Excision branchial cleft	24	Plastic and Reconstructive Surgery	8

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45560	Repair of rectocele (sep	24	Plastic and Reconstructive Surgery	8
49000	Exploratory laparotomy,	24	Plastic and Reconstructive Surgery	8
49572	Repair epigastric hernia	24	Plastic and Reconstructive Surgery	8
64892	Nerve graft (includes ob	24	Plastic and Reconstructive Surgery	8
67560	Orbital implant (implant	24	Plastic and Reconstructive Surgery	8
67915	Repair of ectropion; ther	24	Plastic and Reconstructive Surgery	8
68325	Conjunctivoplasty; with t	24	Plastic and Reconstructive Surgery	8
38770	Pelvic lymphadenectomy	24	Plastic and Reconstructive Surgery	7
44320	Colostomy or skin level	24	Plastic and Reconstructive Surgery	7
21045	Excision of malignant tu	24	Plastic and Reconstructive Surgery	7
21385	Open treatment of orbita	24	Plastic and Reconstructive Surgery	7
21408	Open treatment of fractu	24	Plastic and Reconstructive Surgery	7
21454	Open treatment of mand	24	Plastic and Reconstructive Surgery	7
23412	Repair of ruptured musc	24	Plastic and Reconstructive Surgery	7
23430	Tenodesis of long tendo	24	Plastic and Reconstructive Surgery	7
24685	Open treatment of ulnar	24	Plastic and Reconstructive Surgery	7
25145	Sequestrectomy (eg, for	24	Plastic and Reconstructive Surgery	7
25259	Manipulation, wrist, unde	24	Plastic and Reconstructive Surgery	7
25400	Repair of nonunion or m	24	Plastic and Reconstructive Surgery	7
25670	Open treatment of radio	24	Plastic and Reconstructive Surgery	7
25820	Arthrodesis, wrist; limite	24	Plastic and Reconstructive Surgery	7
26498	Transfer of tendon to res	24	Plastic and Reconstructive Surgery	7
26700	Closed treatment of met	24	Plastic and Reconstructive Surgery	7
27372	Removal of foreign body	24	Plastic and Reconstructive Surgery	7
27604	Incision and drainage, le	24	Plastic and Reconstructive Surgery	7
28160	Hemiphalangectomy or	24	Plastic and Reconstructive Surgery	7
28192	Removal of foreign body	24	Plastic and Reconstructive Surgery	7
28288	Ostectomy, partial, exos	24	Plastic and Reconstructive Surgery	7
33240	Insertion of single or dua	24	Plastic and Reconstructive Surgery	7
33510	Coronary artery bypass,	24	Plastic and Reconstructive Surgery	7
33511	Coronary artery bypass,	24	Plastic and Reconstructive Surgery	7
36821	Arteriovenous anastomc	24	Plastic and Reconstructive Surgery	7
40840	Vestibuloplasty; anterior	24	Plastic and Reconstructive Surgery	7
42826	Tonsillectomy, primary c	24	Plastic and Reconstructive Surgery	7
44141	Colectomy, partial; with	24	Plastic and Reconstructive Surgery	7
44970	Laparoscopy, surgical, a	24	Plastic and Reconstructive Surgery	7
49250	Umbilectomy, omphalec	24	Plastic and Reconstructive Surgery	7
49520	Repair recurrent inguina	24	Plastic and Reconstructive Surgery	7
49900	Suture, secondary, of ab	24	Plastic and Reconstructive Surgery	7
55180	Scrotoplasty; complicat	24	Plastic and Reconstructive Surgery	7
55845	Prostatectomy, retropub	24	Plastic and Reconstructive Surgery	7
55875	Transperineal placemen	24	Plastic and Reconstructive Surgery	7
57292	Construction of artificial	24	Plastic and Reconstructive Surgery	7
64885	Nerve graft (includes ob	24	Plastic and Reconstructive Surgery	7
67974	Reconstruction of eyelid	24	Plastic and Reconstructive Surgery	7
69631	Tympanoplasty without r	24	Plastic and Reconstructive Surgery	7
33202	Insertion of epicardial el	24	Plastic and Reconstructive Surgery	7
15783	Dermabrasion; superfici	24	Plastic and Reconstructive Surgery	6
20827	Replantation, thumb (inc	24	Plastic and Reconstructive Surgery	6
21141	Reconstruction midface,	24	Plastic and Reconstructive Surgery	6
21451	Closed treatment of ma	24	Plastic and Reconstructive Surgery	6
22010	Incision and drainage, o	24	Plastic and Reconstructive Surgery	6

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23405	Tenotomy, shoulder are	24	Plastic and Reconstructive Surgery	6
24102	Arthrotomy, elbow; with	24	Plastic and Reconstructive Surgery	6
24120	Excision or curettage of	24	Plastic and Reconstructive Surgery	6
24342	Reinsertion of ruptured l	24	Plastic and Reconstructive Surgery	6
24495	Decompression fascioto	24	Plastic and Reconstructive Surgery	6
24900	Amputation, arm throug	24	Plastic and Reconstructive Surgery	6
25035	Incision, deep, bone cor	24	Plastic and Reconstructive Surgery	6
25085	Capsulotomy, wrist (eg,	24	Plastic and Reconstructive Surgery	6
25360	Osteotomy; ulna	24	Plastic and Reconstructive Surgery	6
26372	Repair or advancement	24	Plastic and Reconstructive Surgery	6
26492	Opponensplasty; tendon	24	Plastic and Reconstructive Surgery	6
26561	Repair of syndactyly (we	24	Plastic and Reconstructive Surgery	6
26676	Percutaneous skeletal fi	24	Plastic and Reconstructive Surgery	6
27075	Radical resection of tum	24	Plastic and Reconstructive Surgery	6
27305	Fasciotomy, iliotibial (ter	24	Plastic and Reconstructive Surgery	6
27430	Quadricepsplasty (eg, B	24	Plastic and Reconstructive Surgery	6
27607	Incision (eg, osteomyelit	24	Plastic and Reconstructive Surgery	6
27680	Tenolysis, flexor or exte	24	Plastic and Reconstructive Surgery	6
27681	Tenolysis, flexor or exte	24	Plastic and Reconstructive Surgery	6
27892	Decompression fascioto	24	Plastic and Reconstructive Surgery	6
28022	Arthrotomy, including ex	24	Plastic and Reconstructive Surgery	6
28100	Excision or curettage of	24	Plastic and Reconstructive Surgery	6
28104	Excision or curettage of	24	Plastic and Reconstructive Surgery	6
28200	Repair, tendon, flexor, fo	24	Plastic and Reconstructive Surgery	6
28208	Repair, tendon, extenso	24	Plastic and Reconstructive Surgery	6
30462	Rhinoplasty for nasal de	24	Plastic and Reconstructive Surgery	6
32500	Removal of lung, other t	24	Plastic and Reconstructive Surgery	6
32815	Open closure of major b	24	Plastic and Reconstructive Surgery	6
33025	Creation of pericardial w	24	Plastic and Reconstructive Surgery	6
33512	Coronary artery bypass,	24	Plastic and Reconstructive Surgery	6
33534	Coronary artery bypass,	24	Plastic and Reconstructive Surgery	6
35141	Direct repair of aneurysr	24	Plastic and Reconstructive Surgery	6
35190	Repair, acquired or trau	24	Plastic and Reconstructive Surgery	6
35256	Repair blood vessel with	24	Plastic and Reconstructive Surgery	6
36825	Creation of arteriovenou	24	Plastic and Reconstructive Surgery	6
41120	Glossectomy; less than	24	Plastic and Reconstructive Surgery	6
42215	Palatoplasty for cleft pal	24	Plastic and Reconstructive Surgery	6
43324	Esophagogastric fundop	24	Plastic and Reconstructive Surgery	6
43832	Gastrostomy, open; with	24	Plastic and Reconstructive Surgery	6
43870	Closure of gastrostomy,	24	Plastic and Reconstructive Surgery	6
44602	Suture of small intestine	24	Plastic and Reconstructive Surgery	6
44950	Appendectomy;	24	Plastic and Reconstructive Surgery	6
49590	Repair spigelian hernia	24	Plastic and Reconstructive Surgery	6
49651	Laparoscopy, surgical; r	24	Plastic and Reconstructive Surgery	6
57260	Combined anteroposteri	24	Plastic and Reconstructive Surgery	6
57291	Construction of artificial	24	Plastic and Reconstructive Surgery	6
64744	Transection or avulsion	24	Plastic and Reconstructive Surgery	6
64823	Sympathectomy; superfi	24	Plastic and Reconstructive Surgery	6
64895	Nerve graft (includes ob	24	Plastic and Reconstructive Surgery	6
64898	Nerve graft (includes ob	24	Plastic and Reconstructive Surgery	6
65155	Reinsertion of ocular im	24	Plastic and Reconstructive Surgery	6
66984	Extracapsular cataract r	24	Plastic and Reconstructive Surgery	6

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68330	Repair of symblepharon	24	Plastic and Reconstructive Surgery	6
68360	Conjunctival flap; bridge	24	Plastic and Reconstructive Surgery	6
15841	Graft for facial nerve par	24	Plastic and Reconstructive Surgery	5
19305	Mastectomy, radical, inc	24	Plastic and Reconstructive Surgery	5
20816	Replantation, digit, exclu	24	Plastic and Reconstructive Surgery	5
21182	Reconstruction of orbita	24	Plastic and Reconstructive Surgery	5
21188	Reconstruction midface,	24	Plastic and Reconstructive Surgery	5
21344	Open treatment of comp	24	Plastic and Reconstructive Surgery	5
22830	Exploration of spinal fus	24	Plastic and Reconstructive Surgery	5
24147	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	5
25031	Incision and drainage, fo	24	Plastic and Reconstructive Surgery	5
25119	Synovectomy, extensor	24	Plastic and Reconstructive Surgery	5
25350	Osteotomy, radius; dista	24	Plastic and Reconstructive Surgery	5
25405	Repair of nonunion or m	24	Plastic and Reconstructive Surgery	5
25575	Open treatment of radia	24	Plastic and Reconstructive Surgery	5
26100	Arthrotomy with biopsy;	24	Plastic and Reconstructive Surgery	5
26105	Arthrotomy with biopsy;	24	Plastic and Reconstructive Surgery	5
26392	Removal of synthetic roc	24	Plastic and Reconstructive Surgery	5
26489	Transfer or transplant of	24	Plastic and Reconstructive Surgery	5
27030	Arthrotomy, hip, with dra	24	Plastic and Reconstructive Surgery	5
27076	Radical resection of tum	24	Plastic and Reconstructive Surgery	5
27134	Revision of total hip arth	24	Plastic and Reconstructive Surgery	5
27245	Treatment of intertrocha	24	Plastic and Reconstructive Surgery	5
27380	Suture of infrapatellar te	24	Plastic and Reconstructive Surgery	5
27592	Amputation, thigh, throu	24	Plastic and Reconstructive Surgery	5
27687	Gastrocnemius recessic	24	Plastic and Reconstructive Surgery	5
27707	Osteotomy; fibula	24	Plastic and Reconstructive Surgery	5
28193	Removal of foreign body	24	Plastic and Reconstructive Surgery	5
28230	Tenotomy, open, tendor	24	Plastic and Reconstructive Surgery	5
28740	Arthrodesis, midtarsal o	24	Plastic and Reconstructive Surgery	5
29845	Arthroscopy, wrist, surgi	24	Plastic and Reconstructive Surgery	5
31032	Sinusotomy, maxillary (a	24	Plastic and Reconstructive Surgery	5
31225	Maxillectomy; without or	24	Plastic and Reconstructive Surgery	5
31825	Surgical closure tracheo	24	Plastic and Reconstructive Surgery	5
31830	Revision of tracheostom	24	Plastic and Reconstructive Surgery	5
32650	Thoracoscopy, surgical;	24	Plastic and Reconstructive Surgery	5
33860	Ascending aorta graft, w	24	Plastic and Reconstructive Surgery	5
35045	Direct repair of aneurysr	24	Plastic and Reconstructive Surgery	5
35371	Thromboendarterectomy	24	Plastic and Reconstructive Surgery	5
35875	Thrombectomy of arteria	24	Plastic and Reconstructive Surgery	5
37700	Ligation and division of l	24	Plastic and Reconstructive Surgery	5
38562	Limited lymphadenector	24	Plastic and Reconstructive Surgery	5
42200	Palatoplasty for cleft pal	24	Plastic and Reconstructive Surgery	5
42210	Palatoplasty for cleft pal	24	Plastic and Reconstructive Surgery	5
44050	Reduction of volvulus, ir	24	Plastic and Reconstructive Surgery	5
49507	Repair initial inguinal he	24	Plastic and Reconstructive Surgery	5
49525	Repair inguinal hernia, s	24	Plastic and Reconstructive Surgery	5
50020	Drainage of perirenal or	24	Plastic and Reconstructive Surgery	5
52648	Laser vaporization of pro	24	Plastic and Reconstructive Surgery	5
56620	Vulvectomy simple; part	24	Plastic and Reconstructive Surgery	5
57110	Vaginectomy, complete	24	Plastic and Reconstructive Surgery	5
57250	Posterior colporrhaphy,	24	Plastic and Reconstructive Surgery	5

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61250	Burr hole(s) or trephine,	24	Plastic and Reconstructive Surgery	5
62147	Cranioplasty with autogr	24	Plastic and Reconstructive Surgery	5
62365	Removal of subcutaneo	24	Plastic and Reconstructive Surgery	5
64714	Neuroplasty, major perip	24	Plastic and Reconstructive Surgery	5
64865	Suture of facial nerve; in	24	Plastic and Reconstructive Surgery	5
65101	Enucleation of eye; with	24	Plastic and Reconstructive Surgery	5
15780	Dermabrasion; total face	24	Plastic and Reconstructive Surgery	4
15838	Excision, excessive skin	24	Plastic and Reconstructive Surgery	4
20824	Replantation, thumb (inc	24	Plastic and Reconstructive Surgery	4
21240	Arthroplasty, temporoma	24	Plastic and Reconstructive Surgery	4
21267	Orbital repositioning, pe	24	Plastic and Reconstructive Surgery	4
21270	Malar augmentation, pro	24	Plastic and Reconstructive Surgery	4
21345	Closed treatment of nas	24	Plastic and Reconstructive Surgery	4
21366	Open treatment of comp	24	Plastic and Reconstructive Surgery	4
21435	Open treatment of cranio	24	Plastic and Reconstructive Surgery	4
21445	Open treatment of mand	24	Plastic and Reconstructive Surgery	4
21465	Open treatment of mand	24	Plastic and Reconstructive Surgery	4
21485	Closed treatment of tem	24	Plastic and Reconstructive Surgery	4
21700	Division of scalenus anti	24	Plastic and Reconstructive Surgery	4
21805	Open treatment of rib fra	24	Plastic and Reconstructive Surgery	4
22100	Partial excision of poste	24	Plastic and Reconstructive Surgery	4
22101	Partial excision of poste	24	Plastic and Reconstructive Surgery	4
22214	Osteotomy of spine, pos	24	Plastic and Reconstructive Surgery	4
22850	Removal of posterior no	24	Plastic and Reconstructive Surgery	4
23140	Excision or curettage of	24	Plastic and Reconstructive Surgery	4
23180	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	4
23182	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	4
23935	Incision, deep, with open	24	Plastic and Reconstructive Surgery	4
24138	Sequestrectomy (eg, for	24	Plastic and Reconstructive Surgery	4
24140	Partial excision (crateriz	24	Plastic and Reconstructive Surgery	4
25107	Arthrotomy, distal radiou	24	Plastic and Reconstructive Surgery	4
25274	Repair, tendon or muscl	24	Plastic and Reconstructive Surgery	4
25500	Closed treatment of radi	24	Plastic and Reconstructive Surgery	4
25515	Open treatment of radia	24	Plastic and Reconstructive Surgery	4
25652	Open treatment of ulnar	24	Plastic and Reconstructive Surgery	4
25905	Amputation, forearm, thi	24	Plastic and Reconstructive Surgery	4
25909	Amputation, forearm, thi	24	Plastic and Reconstructive Surgery	4
25931	Transmetacarpal amput	24	Plastic and Reconstructive Surgery	4
26373	Repair or advancement	24	Plastic and Reconstructive Surgery	4
26499	Correction claw finger, c	24	Plastic and Reconstructive Surgery	4
26568	Osteoplasty, lengthening	24	Plastic and Reconstructive Surgery	4
26820	Fusion in opposition, thu	24	Plastic and Reconstructive Surgery	4
27033	Arthrotomy, hip, includin	24	Plastic and Reconstructive Surgery	4
27087	Removal of foreign body	24	Plastic and Reconstructive Surgery	4
27132	Conversion of previous l	24	Plastic and Reconstructive Surgery	4
27347	Excision of lesion of me	24	Plastic and Reconstructive Surgery	4
27355	Excision or curettage of	24	Plastic and Reconstructive Surgery	4
27365	Radical resection of tum	24	Plastic and Reconstructive Surgery	4
27405	Repair, primary, torn liga	24	Plastic and Reconstructive Surgery	4
27506	Open treatment of femo	24	Plastic and Reconstructive Surgery	4
27881	Amputation, leg, through	24	Plastic and Reconstructive Surgery	4
28116	Ostectomy, excision of t	24	Plastic and Reconstructive Surgery	4

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28173	Radical resection of tumor	24	Plastic and Reconstructive Surgery	4
28220	Tenolysis, flexor, foot; simple	24	Plastic and Reconstructive Surgery	4
28222	Tenolysis, flexor, foot; moderate	24	Plastic and Reconstructive Surgery	4
28285	Correction, hammertoe	24	Plastic and Reconstructive Surgery	4
28306	Osteotomy, with or without fixation	24	Plastic and Reconstructive Surgery	4
28750	Arthrodesis, great toe; nonoperative	24	Plastic and Reconstructive Surgery	4
30115	Excision, nasal polyp(s)	24	Plastic and Reconstructive Surgery	4
31030	Sinusotomy, maxillary (antral)	24	Plastic and Reconstructive Surgery	4
31070	Sinusotomy frontal; external	24	Plastic and Reconstructive Surgery	4
31075	Sinusotomy frontal; transnasal	24	Plastic and Reconstructive Surgery	4
31230	Maxillectomy; with orbital decompression	24	Plastic and Reconstructive Surgery	4
34111	Embolectomy or thrombolysis	24	Plastic and Reconstructive Surgery	4
35081	Direct repair of aneurysm	24	Plastic and Reconstructive Surgery	4
35566	Bypass graft, with vein; femoral	24	Plastic and Reconstructive Surgery	4
36830	Creation of arteriovenous fistula	24	Plastic and Reconstructive Surgery	4
37616	Ligation, major artery (external)	24	Plastic and Reconstructive Surgery	4
41017	Extraoral incision and drainage	24	Plastic and Reconstructive Surgery	4
41150	Glossectomy; composite	24	Plastic and Reconstructive Surgery	4
42140	Uvulectomy, excision of	24	Plastic and Reconstructive Surgery	4
42235	Repair of anterior palate	24	Plastic and Reconstructive Surgery	4
43633	Gastrectomy, partial, distal	24	Plastic and Reconstructive Surgery	4
43830	Gastrostomy, open; with feeding tube	24	Plastic and Reconstructive Surgery	4
44150	Colectomy, total, abdominal	24	Plastic and Reconstructive Surgery	4
49040	Drainage of subdiaphragmatic abscess	24	Plastic and Reconstructive Surgery	4
50590	Lithotripsy, extracorporeal	24	Plastic and Reconstructive Surgery	4
55175	Scrotoplasty; simple	24	Plastic and Reconstructive Surgery	4
56630	Vulvectomy, radical, partial	24	Plastic and Reconstructive Surgery	4
57284	Paravaginal defect repair	24	Plastic and Reconstructive Surgery	4
58150	Total abdominal hysterectomy	24	Plastic and Reconstructive Surgery	4
58200	Total abdominal hysterectomy with oophorectomy	24	Plastic and Reconstructive Surgery	4
58262	Vaginal hysterectomy, full	24	Plastic and Reconstructive Surgery	4
60252	Thyroidectomy, total or subtotal	24	Plastic and Reconstructive Surgery	4
60260	Thyroidectomy, removal of remnant	24	Plastic and Reconstructive Surgery	4
61618	Secondary repair of dura	24	Plastic and Reconstructive Surgery	4
62143	Replacement of bone flap	24	Plastic and Reconstructive Surgery	4
62355	Removal of previously implanted bone flap	24	Plastic and Reconstructive Surgery	4
63030	Laminotomy (hemilaminectomy)	24	Plastic and Reconstructive Surgery	4
64734	Transection or avulsion	24	Plastic and Reconstructive Surgery	4
67120	Removal of implanted mesh	24	Plastic and Reconstructive Surgery	4
67314	Strabismus surgery, recession	24	Plastic and Reconstructive Surgery	4
67343	Release of extensive scar	24	Plastic and Reconstructive Surgery	4
67405	Orbitotomy without bone flap	24	Plastic and Reconstructive Surgery	4
67445	Orbitotomy with bone flap	24	Plastic and Reconstructive Surgery	4
67835	Correction of trichiasis; individual eyelashes	24	Plastic and Reconstructive Surgery	4
68520	Excision of lacrimal sac	24	Plastic and Reconstructive Surgery	4
69440	Middle ear exploration through ear	24	Plastic and Reconstructive Surgery	4
35216	Repair blood vessel, direct	24	Plastic and Reconstructive Surgery	4
33254	Operative tissue ablation	24	Plastic and Reconstructive Surgery	3
19110	Nipple exploration, with biopsy	24	Plastic and Reconstructive Surgery	3
19112	Excision of lactiferous duct	24	Plastic and Reconstructive Surgery	3
19272	Excision of chest wall tumor	24	Plastic and Reconstructive Surgery	3
20693	Adjustment or revision of	24	Plastic and Reconstructive Surgery	3

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20970	Free osteocutaneous flap	24	Plastic and Reconstructive Surgery	3
21047	Excision of benign tumor	24	Plastic and Reconstructive Surgery	3
21070	Coronoidectomy (separate	24	Plastic and Reconstructive Surgery	3
21137	Reduction forehead; coronal	24	Plastic and Reconstructive Surgery	3
21138	Reduction forehead; coronal	24	Plastic and Reconstructive Surgery	3
21145	Reconstruction midface; open	24	Plastic and Reconstructive Surgery	3
21172	Reconstruction superior	24	Plastic and Reconstructive Surgery	3
21179	Reconstruction, entire orbit	24	Plastic and Reconstructive Surgery	3
21194	Reconstruction of mandible	24	Plastic and Reconstructive Surgery	3
21246	Reconstruction of mandible	24	Plastic and Reconstructive Surgery	3
21248	Reconstruction of mandible	24	Plastic and Reconstructive Surgery	3
21256	Reconstruction of orbit with	24	Plastic and Reconstructive Surgery	3
21348	Open treatment of nasal	24	Plastic and Reconstructive Surgery	3
21421	Closed treatment of palate	24	Plastic and Reconstructive Surgery	3
21433	Open treatment of cranial	24	Plastic and Reconstructive Surgery	3
21440	Closed treatment of maxilla	24	Plastic and Reconstructive Surgery	3
21502	Incision and drainage, deep	24	Plastic and Reconstructive Surgery	3
21685	Hyoid myotomy and suspension	24	Plastic and Reconstructive Surgery	3
21740	Reconstructive repair of	24	Plastic and Reconstructive Surgery	3
23066	Biopsy, soft tissue of shoulder	24	Plastic and Reconstructive Surgery	3
23190	Osteotomy of scapula, partial	24	Plastic and Reconstructive Surgery	3
23470	Arthroplasty, glenohumeral	24	Plastic and Reconstructive Surgery	3
23600	Closed treatment of proximal	24	Plastic and Reconstructive Surgery	3
23616	Open treatment of proximal	24	Plastic and Reconstructive Surgery	3
23650	Closed treatment of shoulder	24	Plastic and Reconstructive Surgery	3
24201	Removal of foreign body	24	Plastic and Reconstructive Surgery	3
24300	Manipulation, elbow, under	24	Plastic and Reconstructive Surgery	3
24516	Treatment of humeral shaft	24	Plastic and Reconstructive Surgery	3
25251	Removal of wrist prosthesis	24	Plastic and Reconstructive Surgery	3
25440	Repair of nonunion, scapula	24	Plastic and Reconstructive Surgery	3
25442	Arthroplasty with prosthesis	24	Plastic and Reconstructive Surgery	3
25635	Closed treatment of carpal	24	Plastic and Reconstructive Surgery	3
25650	Closed treatment of ulna	24	Plastic and Reconstructive Surgery	3
25695	Open treatment of lunate	24	Plastic and Reconstructive Surgery	3
26434	Repair of extensor tendon	24	Plastic and Reconstructive Surgery	3
26476	Lengthening of tendon, elbow	24	Plastic and Reconstructive Surgery	3
26494	Opponensplasty; hypothec	24	Plastic and Reconstructive Surgery	3
26497	Transfer of tendon to repair	24	Plastic and Reconstructive Surgery	3
26518	Capsulodesis, metacarpal	24	Plastic and Reconstructive Surgery	3
26596	Excision of constricting	24	Plastic and Reconstructive Surgery	3
26641	Closed treatment of carpal	24	Plastic and Reconstructive Surgery	3
26844	Arthrodesis, carpometacarpal	24	Plastic and Reconstructive Surgery	3
27091	Removal of hip prosthesis	24	Plastic and Reconstructive Surgery	3
27228	Open treatment of acetabulum	24	Plastic and Reconstructive Surgery	3
27235	Percutaneous skeletal fixation	24	Plastic and Reconstructive Surgery	3
27334	Arthrotomy, with synovectomy	24	Plastic and Reconstructive Surgery	3
27335	Arthrotomy, with synovectomy	24	Plastic and Reconstructive Surgery	3
27381	Suture of infrapatellar tendon	24	Plastic and Reconstructive Surgery	3
27400	Transfer, tendon or muscle	24	Plastic and Reconstructive Surgery	3
27654	Repair, secondary, Achilles	24	Plastic and Reconstructive Surgery	3
27658	Repair, flexor tendon, leg	24	Plastic and Reconstructive Surgery	3
27664	Repair, extensor tendon	24	Plastic and Reconstructive Surgery	3

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27685	Lengthening or shortening	24	Plastic and Reconstructive Surgery	3
27705	Osteotomy; tibia	24	Plastic and Reconstructive Surgery	3
28010	Tenotomy, percutaneous	24	Plastic and Reconstructive Surgery	3
28225	Tenolysis, extensor, foot	24	Plastic and Reconstructive Surgery	3
28226	Tenolysis, extensor, foot	24	Plastic and Reconstructive Surgery	3
29822	Arthroscopy, shoulder, surgical	24	Plastic and Reconstructive Surgery	3
29876	Arthroscopy, knee, surgical	24	Plastic and Reconstructive Surgery	3
30320	Removal foreign body, intra-articular	24	Plastic and Reconstructive Surgery	3
30460	Rhinoplasty for nasal deformity	24	Plastic and Reconstructive Surgery	3
31085	Sinusotomy frontal; obliteration	24	Plastic and Reconstructive Surgery	3
31820	Surgical closure tracheostomy	24	Plastic and Reconstructive Surgery	3
32220	Decortication, pulmonary	24	Plastic and Reconstructive Surgery	3
32484	Removal of lung, other than lobectomy	24	Plastic and Reconstructive Surgery	3
32810	Closure of chest wall following thoracotomy	24	Plastic and Reconstructive Surgery	3
32905	Thoracoplasty, Schede type	24	Plastic and Reconstructive Surgery	3
33213	Insertion or replacement of prosthetic	24	Plastic and Reconstructive Surgery	3
33215	Repositioning of previous prosthetic	24	Plastic and Reconstructive Surgery	3
33235	Removal of transvenous catheter	24	Plastic and Reconstructive Surgery	3
33244	Removal of single or double	24	Plastic and Reconstructive Surgery	3
33513	Coronary artery bypass, arterial	24	Plastic and Reconstructive Surgery	3
34201	Embolectomy or thrombectomy	24	Plastic and Reconstructive Surgery	3
34520	Cross-over vein graft to coronary	24	Plastic and Reconstructive Surgery	3
34803	Endovascular repair of iliofemoral	24	Plastic and Reconstructive Surgery	3
35011	Direct repair of aneurysm, iliofemoral	24	Plastic and Reconstructive Surgery	3
35246	Repair blood vessel with vein	24	Plastic and Reconstructive Surgery	3
35571	Bypass graft, with vein; femoral	24	Plastic and Reconstructive Surgery	3
35585	In-situ vein bypass; femoral	24	Plastic and Reconstructive Surgery	3
36832	Revision, open, arteriovenous	24	Plastic and Reconstructive Surgery	3
37565	Ligation, internal jugular	24	Plastic and Reconstructive Surgery	3
37735	Ligation and division and	24	Plastic and Reconstructive Surgery	3
38550	Excision of cystic hygroma	24	Plastic and Reconstructive Surgery	3
41135	Glossectomy; partial, with	24	Plastic and Reconstructive Surgery	3
42120	Resection of palate or epiglottis	24	Plastic and Reconstructive Surgery	3
42260	Repair of nasolabial fistula	24	Plastic and Reconstructive Surgery	3
42408	Excision of sublingual salivary	24	Plastic and Reconstructive Surgery	3
42409	Marsupialization of sublingual	24	Plastic and Reconstructive Surgery	3
42500	Plastic repair of salivary	24	Plastic and Reconstructive Surgery	3
42505	Plastic repair of salivary	24	Plastic and Reconstructive Surgery	3
43305	Esophagoplasty (plastic)	24	Plastic and Reconstructive Surgery	3
43820	Gastrojejunostomy; with	24	Plastic and Reconstructive Surgery	3
43840	Gastrorrhaphy, suture of	24	Plastic and Reconstructive Surgery	3
44204	Laparoscopy, surgical; diagnostic	24	Plastic and Reconstructive Surgery	3
44312	Revision of ileostomy; sigmoid	24	Plastic and Reconstructive Surgery	3
44345	Revision of colostomy; sigmoid	24	Plastic and Reconstructive Surgery	3
46060	Incision and drainage of abscess	24	Plastic and Reconstructive Surgery	3
46700	Anoplasty, plastic operation	24	Plastic and Reconstructive Surgery	3
47100	Biopsy of liver, wedge	24	Plastic and Reconstructive Surgery	3
48150	Pancreatectomy, proximal	24	Plastic and Reconstructive Surgery	3
49062	Drainage of extraperitoneal	24	Plastic and Reconstructive Surgery	3
49521	Repair recurrent inguinal	24	Plastic and Reconstructive Surgery	3
49906	Free omental flap with microvascular	24	Plastic and Reconstructive Surgery	3
50220	Nephrectomy, including	24	Plastic and Reconstructive Surgery	3

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54440	Plastic operation of penis	24	Plastic and Reconstructive Surgery	3
54680	Transplantation of testis	24	Plastic and Reconstructive Surgery	3
57220	Plastic operation on ureter	24	Plastic and Reconstructive Surgery	3
57268	Repair of enterocele, vaginal	24	Plastic and Reconstructive Surgery	3
57280	Colpopexy, abdominal approach	24	Plastic and Reconstructive Surgery	3
60271	Thyroidectomy, including lymph node dissection	24	Plastic and Reconstructive Surgery	3
63042	Laminotomy (hemilaminectomy)	24	Plastic and Reconstructive Surgery	3
63685	Insertion or replacement of artificial disc	24	Plastic and Reconstructive Surgery	3
64575	Incision for implantation of artificial disc	24	Plastic and Reconstructive Surgery	3
64732	Transection or avulsion of ligament	24	Plastic and Reconstructive Surgery	3
64786	Excision of neuroma; sciatic	24	Plastic and Reconstructive Surgery	3
64893	Nerve graft (includes oblique incision)	24	Plastic and Reconstructive Surgery	3
64897	Nerve graft (includes oblique incision)	24	Plastic and Reconstructive Surgery	3
64905	Nerve pedicle transfer; free	24	Plastic and Reconstructive Surgery	3
65091	Evisceration of ocular contents	24	Plastic and Reconstructive Surgery	3
65103	Enucleation of eye; with orbital exenteration	24	Plastic and Reconstructive Surgery	3
67413	Orbitotomy without bone removal	24	Plastic and Reconstructive Surgery	3
68770	Closure of lacrimal fistula	24	Plastic and Reconstructive Surgery	3
69645	Tympanoplasty with mastoidectomy	24	Plastic and Reconstructive Surgery	3
33542	Myocardial resection (excisional)	24	Plastic and Reconstructive Surgery	3
44130	Enteroenterostomy, anastomosis	24	Plastic and Reconstructive Surgery	3
33256	Operative tissue ablation	24	Plastic and Reconstructive Surgery	3
57295	Revision (including removal)	24	Plastic and Reconstructive Surgery	3
44625	Closure of enterostomy, ileostomy	24	Plastic and Reconstructive Surgery	3
44227	Laparoscopy, surgical, diagnostic	24	Plastic and Reconstructive Surgery	2
35883	Revision, femoral anastomosis	24	Plastic and Reconstructive Surgery	2
35884	Revision, femoral anastomosis	24	Plastic and Reconstructive Surgery	2
15782	Dermabrasion; regional, extensive	24	Plastic and Reconstructive Surgery	2
15789	Chemical peel, facial; deep	24	Plastic and Reconstructive Surgery	2
20661	Application of halo, including skull pin placement	24	Plastic and Reconstructive Surgery	2
21044	Excision of malignant tumor	24	Plastic and Reconstructive Surgery	2
21049	Excision of benign tumor	24	Plastic and Reconstructive Surgery	2
21120	Genioplasty; augmentative	24	Plastic and Reconstructive Surgery	2
21150	Reconstruction midface	24	Plastic and Reconstructive Surgery	2
21180	Reconstruction, entire orbit	24	Plastic and Reconstructive Surgery	2
21183	Reconstruction of orbita	24	Plastic and Reconstructive Surgery	2
21206	Osteotomy, maxilla, segmental	24	Plastic and Reconstructive Surgery	2
21247	Reconstruction of mandible	24	Plastic and Reconstructive Surgery	2
21432	Open treatment of cranial fracture	24	Plastic and Reconstructive Surgery	2
21810	Treatment of rib fracture	24	Plastic and Reconstructive Surgery	2
22630	Arthrodesis, posterior intervertebral	24	Plastic and Reconstructive Surgery	2
23125	Claviclectomy; total	24	Plastic and Reconstructive Surgery	2
23395	Muscle transfer, any type	24	Plastic and Reconstructive Surgery	2
23900	Interthoracoscapular arthrodesis	24	Plastic and Reconstructive Surgery	2
24006	Arthrotomy of the elbow	24	Plastic and Reconstructive Surgery	2
24149	Radical resection of capsule	24	Plastic and Reconstructive Surgery	2
24310	Tenotomy, open, elbow	24	Plastic and Reconstructive Surgery	2
24343	Repair lateral collateral ligament	24	Plastic and Reconstructive Surgery	2
24366	Arthroplasty, radial head	24	Plastic and Reconstructive Surgery	2
24430	Repair of nonunion or malunion	24	Plastic and Reconstructive Surgery	2
24545	Open treatment of humeral fracture	24	Plastic and Reconstructive Surgery	2
24546	Open treatment of humeral fracture	24	Plastic and Reconstructive Surgery	2

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24650	Closed treatment of radi	24	Plastic and Reconstructive Surgery	2
25100	Arthrotomy, wrist joint; w	24	Plastic and Reconstructive Surgery	2
25250	Removal of wrist prosth	24	Plastic and Reconstructive Surgery	2
25394	Osteoplasty, carpal bone	24	Plastic and Reconstructive Surgery	2
25420	Repair of nonunion or m	24	Plastic and Reconstructive Surgery	2
25535	Closed treatment of ulna	24	Plastic and Reconstructive Surgery	2
25574	Open treatment of radia	24	Plastic and Reconstructive Surgery	2
25624	Closed treatment of carp	24	Plastic and Reconstructive Surgery	2
25651	Percutaneous skeletal fi	24	Plastic and Reconstructive Surgery	2
25660	Closed treatment of radi	24	Plastic and Reconstructive Surgery	2
25671	Percutaneous skeletal fi	24	Plastic and Reconstructive Surgery	2
26205	Excision or curettage of	24	Plastic and Reconstructive Surgery	2
26215	Excision or curettage of	24	Plastic and Reconstructive Surgery	2
26555	Transfer, finger to anoth	24	Plastic and Reconstructive Surgery	2
26670	Closed treatment of carp	24	Plastic and Reconstructive Surgery	2
26675	Closed treatment of carp	24	Plastic and Reconstructive Surgery	2
26843	Arthrodesis, carpometac	24	Plastic and Reconstructive Surgery	2
26991	Incision and drainage, p	24	Plastic and Reconstructive Surgery	2
27065	Excision of bone cyst or	24	Plastic and Reconstructive Surgery	2
27161	Osteotomy, femoral nec	24	Plastic and Reconstructive Surgery	2
27227	Open treatment of aceta	24	Plastic and Reconstructive Surgery	2
27290	Interpelviabdominal amp	24	Plastic and Reconstructive Surgery	2
27326	Neurectomy, popliteal (c	24	Plastic and Reconstructive Surgery	2
27345	Excision of synovial cyst	24	Plastic and Reconstructive Surgery	2
27350	Patellectomy or hemipat	24	Plastic and Reconstructive Surgery	2
27507	Open treatment of femo	24	Plastic and Reconstructive Surgery	2
27530	Closed treatment of tibia	24	Plastic and Reconstructive Surgery	2
27535	Open treatment of tibial	24	Plastic and Reconstructive Surgery	2
27725	Repair of nonunion or m	24	Plastic and Reconstructive Surgery	2
27759	Treatment of tibial shaft	24	Plastic and Reconstructive Surgery	2
27792	Open treatment of distal	24	Plastic and Reconstructive Surgery	2
27814	Open treatment of bima	24	Plastic and Reconstructive Surgery	2
28020	Arthrotomy, including ex	24	Plastic and Reconstructive Surgery	2
28052	Arthrotomy with biopsy;	24	Plastic and Reconstructive Surgery	2
28072	Synovectomy; metatars	24	Plastic and Reconstructive Surgery	2
28086	Synovectomy, tendon sh	24	Plastic and Reconstructive Surgery	2
28088	Synovectomy, tendon sh	24	Plastic and Reconstructive Surgery	2
28108	Excision or curettage of	24	Plastic and Reconstructive Surgery	2
28114	Ostectomy, complete ex	24	Plastic and Reconstructive Surgery	2
28126	Resection, partial or con	24	Plastic and Reconstructive Surgery	2
28175	Radical resection of tum	24	Plastic and Reconstructive Surgery	2
28280	Syndactylization, toes (e	24	Plastic and Reconstructive Surgery	2
28470	Closed treatment of met	24	Plastic and Reconstructive Surgery	2
28505	Open treatment of fractu	24	Plastic and Reconstructive Surgery	2
28515	Closed treatment of frac	24	Plastic and Reconstructive Surgery	2
28675	Open treatment of interp	24	Plastic and Reconstructive Surgery	2
29807	Arthroscopy, shoulder, s	24	Plastic and Reconstructive Surgery	2
29844	Arthroscopy, wrist, surgi	24	Plastic and Reconstructive Surgery	2
29847	Arthroscopy, wrist, surgi	24	Plastic and Reconstructive Surgery	2
30125	Excision dermoid cyst, n	24	Plastic and Reconstructive Surgery	2
30540	Repair choanal atresia;	24	Plastic and Reconstructive Surgery	2
31081	Sinusotomy frontal; oblit	24	Plastic and Reconstructive Surgery	2

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31201	Ethmoidectomy; intranasal	24	Plastic and Reconstructive Surgery	2
31610	Tracheostomy, fenestrated	24	Plastic and Reconstructive Surgery	2
31611	Construction of tracheostomy	24	Plastic and Reconstructive Surgery	2
32036	Thoracostomy; with open	24	Plastic and Reconstructive Surgery	2
32095	Thoracotomy, limited, for	24	Plastic and Reconstructive Surgery	2
32120	Thoracotomy, major; for	24	Plastic and Reconstructive Surgery	2
32651	Thoracoscopy, surgical; e	24	Plastic and Reconstructive Surgery	2
32655	Thoracoscopy, surgical; e	24	Plastic and Reconstructive Surgery	2
33207	Insertion or replacement	24	Plastic and Reconstructive Surgery	2
33212	Insertion or replacement	24	Plastic and Reconstructive Surgery	2
33218	Repair of single transverse	24	Plastic and Reconstructive Surgery	2
33243	Removal of single or double	24	Plastic and Reconstructive Surgery	2
33426	Valvuloplasty, mitral valve	24	Plastic and Reconstructive Surgery	2
33463	Valvuloplasty, tricuspid v	24	Plastic and Reconstructive Surgery	2
33514	Coronary artery bypass, s	24	Plastic and Reconstructive Surgery	2
33641	Repair atrial septal defe	24	Plastic and Reconstructive Surgery	2
33945	Heart transplant, with or	24	Plastic and Reconstructive Surgery	2
35151	Direct repair of aneurysm	24	Plastic and Reconstructive Surgery	2
35286	Repair blood vessel with	24	Plastic and Reconstructive Surgery	2
35556	Bypass graft, with vein; t	24	Plastic and Reconstructive Surgery	2
35647	Bypass graft, with other	24	Plastic and Reconstructive Surgery	2
36820	Arteriovenous anastomosis	24	Plastic and Reconstructive Surgery	2
37615	Ligation, major artery (e	24	Plastic and Reconstructive Surgery	2
38100	Splenectomy; total (sepa	24	Plastic and Reconstructive Surgery	2
39530	Repair, diaphragmatic h	24	Plastic and Reconstructive Surgery	2
41016	Extraoral incision and dr	24	Plastic and Reconstructive Surgery	2
41153	Glossectomy; composite	24	Plastic and Reconstructive Surgery	2
41155	Glossectomy; composite	24	Plastic and Reconstructive Surgery	2
42225	Palatoplasty for cleft pal	24	Plastic and Reconstructive Surgery	2
42226	Lengthening of palate, a	24	Plastic and Reconstructive Surgery	2
42227	Lengthening of palate, w	24	Plastic and Reconstructive Surgery	2
42450	Excision of sublingual gl	24	Plastic and Reconstructive Surgery	2
42600	Closure salivary fistula	24	Plastic and Reconstructive Surgery	2
42815	Excision branchial cleft c	24	Plastic and Reconstructive Surgery	2
42821	Tonsillectomy and aden	24	Plastic and Reconstructive Surgery	2
42892	Resection of lateral pha	24	Plastic and Reconstructive Surgery	2
42894	Resection of pharyngeal	24	Plastic and Reconstructive Surgery	2
42955	Pharyngostomy (fistuliza	24	Plastic and Reconstructive Surgery	2
43101	Excision of lesion, esopl	24	Plastic and Reconstructive Surgery	2
43415	Suture of esophageal we	24	Plastic and Reconstructive Surgery	2
43631	Gastrectomy, partial, dis	24	Plastic and Reconstructive Surgery	2
43848	Revision, open, of gastr	24	Plastic and Reconstructive Surgery	2
44125	Enterectomy, resection o	24	Plastic and Reconstructive Surgery	2
44180	Laparoscopy, surgical, e	24	Plastic and Reconstructive Surgery	2
44202	Laparoscopy, surgical; e	24	Plastic and Reconstructive Surgery	2
44205	Laparoscopy, surgical; c	24	Plastic and Reconstructive Surgery	2
44207	Laparoscopy, surgical; c	24	Plastic and Reconstructive Surgery	2
44300	Placement, enterostomy	24	Plastic and Reconstructive Surgery	2
44314	Revision of ileostomy; co	24	Plastic and Reconstructive Surgery	2
44603	Suture of small intestine	24	Plastic and Reconstructive Surgery	2
44604	Suture of large intestine	24	Plastic and Reconstructive Surgery	2
44620	Closure of enterostomy,	24	Plastic and Reconstructive Surgery	2

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44640	Closure of intestinal cuta	24	Plastic and Reconstructive Surgery	2
45020	Incision and drainage of	24	Plastic and Reconstructive Surgery	2
46255	Hemorrhoidectomy, inte	24	Plastic and Reconstructive Surgery	2
46260	Hemorrhoidectomy, inte	24	Plastic and Reconstructive Surgery	2
47610	Cholecystectomy with ex	24	Plastic and Reconstructive Surgery	2
49540	Repair lumbar hernia	24	Plastic and Reconstructive Surgery	2
50545	Laparoscopy, surgical; r	24	Plastic and Reconstructive Surgery	2
51030	Cystotomy or cystostom	24	Plastic and Reconstructive Surgery	2
51860	Cystorrhaphy, suture of	24	Plastic and Reconstructive Surgery	2
53430	Urethroplasty, reconstru	24	Plastic and Reconstructive Surgery	2
53520	Closure of urethrostomy	24	Plastic and Reconstructive Surgery	2
54120	Amputation of penis; par	24	Plastic and Reconstructive Surgery	2
54520	Orchiectomy, simple (inc	24	Plastic and Reconstructive Surgery	2
54640	Orchiopexy, inguinal app	24	Plastic and Reconstructive Surgery	2
55840	Prostatectomy, retropub	24	Plastic and Reconstructive Surgery	2
56631	Vulvectomy, radical, par	24	Plastic and Reconstructive Surgery	2
57106	Vaginectomy, partial ren	24	Plastic and Reconstructive Surgery	2
57300	Closure of rectovaginal f	24	Plastic and Reconstructive Surgery	2
57305	Closure of rectovaginal f	24	Plastic and Reconstructive Surgery	2
58210	Radical abdominal hyste	24	Plastic and Reconstructive Surgery	2
58263	Vaginal hysterectomy, fo	24	Plastic and Reconstructive Surgery	2
58720	Salpingo-oophorectomy	24	Plastic and Reconstructive Surgery	2
60225	Total thyroid lobectomy,	24	Plastic and Reconstructive Surgery	2
60280	Excision of thyroglossal	24	Plastic and Reconstructive Surgery	2
60505	Parathyroidectomy or ex	24	Plastic and Reconstructive Surgery	2
61253	Burr hole(s) or trephine,	24	Plastic and Reconstructive Surgery	2
61304	Craniectomy or cranioto	24	Plastic and Reconstructive Surgery	2
61332	Exploration of orbit (tran	24	Plastic and Reconstructive Surgery	2
61510	Craniectomy, trephinatic	24	Plastic and Reconstructive Surgery	2
61563	Excision, intra and extra	24	Plastic and Reconstructive Surgery	2
61584	Orbitocranial approach t	24	Plastic and Reconstructive Surgery	2
61619	Secondary repair of dura	24	Plastic and Reconstructive Surgery	2
61711	Anastomosis, arterial, ex	24	Plastic and Reconstructive Surgery	2
62360	Implantation or replacen	24	Plastic and Reconstructive Surgery	2
63012	Laminectomy with remo	24	Plastic and Reconstructive Surgery	2
63081	Vertebral corpectomy (v	24	Plastic and Reconstructive Surgery	2
63688	Revision or removal of in	24	Plastic and Reconstructive Surgery	2
63709	Repair of dural/cerebros	24	Plastic and Reconstructive Surgery	2
64726	Decompression; plantar	24	Plastic and Reconstructive Surgery	2
64896	Nerve graft (includes ob	24	Plastic and Reconstructive Surgery	2
65105	Enucleation of eye; with	24	Plastic and Reconstructive Surgery	2
65110	Exenteration of orbit (do	24	Plastic and Reconstructive Surgery	2
65112	Exenteration of orbit (do	24	Plastic and Reconstructive Surgery	2
65114	Exenteration of orbit (do	24	Plastic and Reconstructive Surgery	2
65140	Insertion of ocular impla	24	Plastic and Reconstructive Surgery	2
65290	Repair of wound, extrao	24	Plastic and Reconstructive Surgery	2
65865	Severing adhesions of a	24	Plastic and Reconstructive Surgery	2
66761	Iridotomy/iridectomy by	24	Plastic and Reconstructive Surgery	2
67311	Strabismus surgery, rec	24	Plastic and Reconstructive Surgery	2
67414	Orbitotomy without bone	24	Plastic and Reconstructive Surgery	2
67906	Repair of blepharoptosis	24	Plastic and Reconstructive Surgery	2
68335	Repair of symblepharon	24	Plastic and Reconstructive Surgery	2

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68500	Excision of lacrimal gland	24	Plastic and Reconstructive Surgery	2
68505	Excision of lacrimal gland	24	Plastic and Reconstructive Surgery	2
68540	Excision of lacrimal gland	24	Plastic and Reconstructive Surgery	2
69140	Excision exostosis(es), ear	24	Plastic and Reconstructive Surgery	2
69155	Radical excision external ear	24	Plastic and Reconstructive Surgery	2
69620	Myringoplasty (surgery of ear)	24	Plastic and Reconstructive Surgery	2
69717	Replacement (including ear)	24	Plastic and Reconstructive Surgery	2
69720	Decompression facial nerve	24	Plastic and Reconstructive Surgery	2
25109	Excision of tendon, forearm	24	Plastic and Reconstructive Surgery	2
45110	Proctectomy; complete, with	24	Plastic and Reconstructive Surgery	1
44187	Laparoscopy, surgical; ileostomy	24	Plastic and Reconstructive Surgery	1
33255	Operative tissue ablation	24	Plastic and Reconstructive Surgery	1
11771	Excision of pilonidal cyst	24	Plastic and Reconstructive Surgery	1
15793	Chemical peel, nonfacial	24	Plastic and Reconstructive Surgery	1
15837	Excision, excessive skin	24	Plastic and Reconstructive Surgery	1
15842	Graft for facial nerve palsy	24	Plastic and Reconstructive Surgery	1
20956	Bone graft with microvascular	24	Plastic and Reconstructive Surgery	1
20962	Bone graft with microvascular	24	Plastic and Reconstructive Surgery	1
21048	Excision of benign tumor	24	Plastic and Reconstructive Surgery	1
21050	Condylectomy, temporomandibular	24	Plastic and Reconstructive Surgery	1
21086	Impression and custom	24	Plastic and Reconstructive Surgery	1
21088	Impression and custom	24	Plastic and Reconstructive Surgery	1
21100	Application of halo type	24	Plastic and Reconstructive Surgery	1
21121	Genioplasty; sliding osteotomy	24	Plastic and Reconstructive Surgery	1
21142	Reconstruction midface; with	24	Plastic and Reconstructive Surgery	1
21147	Reconstruction midface; with	24	Plastic and Reconstructive Surgery	1
21160	Reconstruction midface; with	24	Plastic and Reconstructive Surgery	1
21193	Reconstruction of mandible	24	Plastic and Reconstructive Surgery	1
21195	Reconstruction of mandible	24	Plastic and Reconstructive Surgery	1
21260	Periorbital osteotomies for	24	Plastic and Reconstructive Surgery	1
21436	Open treatment of cranial	24	Plastic and Reconstructive Surgery	1
21452	Percutaneous treatment	24	Plastic and Reconstructive Surgery	1
21720	Division of sternocleidomastoid	24	Plastic and Reconstructive Surgery	1
21820	Closed treatment of sternocleidomastoid	24	Plastic and Reconstructive Surgery	1
22210	Osteotomy of spine, posterior	24	Plastic and Reconstructive Surgery	1
22558	Arthrodesis, anterior intervertebral	24	Plastic and Reconstructive Surgery	1
22852	Removal of posterior segment	24	Plastic and Reconstructive Surgery	1
23020	Capsular contracture release	24	Plastic and Reconstructive Surgery	1
23107	Arthrotomy, glenohumeral	24	Plastic and Reconstructive Surgery	1
23130	Acromioplasty or acromioclavicular	24	Plastic and Reconstructive Surgery	1
23172	Sequestrectomy (eg, for	24	Plastic and Reconstructive Surgery	1
23184	Partial excision (craterized)	24	Plastic and Reconstructive Surgery	1
23195	Resection, humeral head	24	Plastic and Reconstructive Surgery	1
23331	Removal of foreign body	24	Plastic and Reconstructive Surgery	1
23332	Removal of foreign body	24	Plastic and Reconstructive Surgery	1
23400	Scapulopexy (eg, Sprengel's)	24	Plastic and Reconstructive Surgery	1
23450	Capsulorrhaphy, anterior	24	Plastic and Reconstructive Surgery	1
23466	Capsulorrhaphy, glenohumeral	24	Plastic and Reconstructive Surgery	1
23655	Closed treatment of shoulder	24	Plastic and Reconstructive Surgery	1
24000	Arthrotomy, elbow, including	24	Plastic and Reconstructive Surgery	1
24100	Arthrotomy, elbow; with	24	Plastic and Reconstructive Surgery	1
24101	Arthrotomy, elbow; with	24	Plastic and Reconstructive Surgery	1

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24110	Excision or curettage of	24	Plastic and Reconstructive Surgery	1
24116	Excision or curettage of	24	Plastic and Reconstructive Surgery	1
24134	Sequestrectomy (eg, for	24	Plastic and Reconstructive Surgery	1
24160	Implant removal; elbow	24	Plastic and Reconstructive Surgery	1
24332	Tenolysis, triceps	24	Plastic and Reconstructive Surgery	1
24340	Tenodesis of biceps ten	24	Plastic and Reconstructive Surgery	1
24345	Repair medial collateral	24	Plastic and Reconstructive Surgery	1
24363	Arthroplasty, elbow; with	24	Plastic and Reconstructive Surgery	1
24435	Repair of nonunion or m	24	Plastic and Reconstructive Surgery	1
24500	Closed treatment of hum	24	Plastic and Reconstructive Surgery	1
24575	Open treatment of hume	24	Plastic and Reconstructive Surgery	1
24600	Treatment of closed elbo	24	Plastic and Reconstructive Surgery	1
24615	Open treatment of acute	24	Plastic and Reconstructive Surgery	1
24666	Open treatment of radia	24	Plastic and Reconstructive Surgery	1
24670	Closed treatment of ulna	24	Plastic and Reconstructive Surgery	1
24930	Amputation, arm through	24	Plastic and Reconstructive Surgery	1
24935	Stump elongation, upper	24	Plastic and Reconstructive Surgery	1
25125	Excision or curettage of	24	Plastic and Reconstructive Surgery	1
25136	Excision or curettage of	24	Plastic and Reconstructive Surgery	1
25170	Radical resection for tur	24	Plastic and Reconstructive Surgery	1
25275	Repair, tendon sheath, e	24	Plastic and Reconstructive Surgery	1
25365	Osteotomy; radius AND	24	Plastic and Reconstructive Surgery	1
25391	Osteoplasty, radius OR	24	Plastic and Reconstructive Surgery	1
25415	Repair of nonunion or m	24	Plastic and Reconstructive Surgery	1
25425	Repair of defect with aut	24	Plastic and Reconstructive Surgery	1
25430	Insertion of vascular ped	24	Plastic and Reconstructive Surgery	1
25441	Arthroplasty with prosth	24	Plastic and Reconstructive Surgery	1
25490	Prophylactic treatment (	24	Plastic and Reconstructive Surgery	1
25525	Open treatment of radia	24	Plastic and Reconstructive Surgery	1
25565	Closed treatment of radi	24	Plastic and Reconstructive Surgery	1
25645	Open treatment of carpa	24	Plastic and Reconstructive Surgery	1
25675	Closed treatment of dist	24	Plastic and Reconstructive Surgery	1
25680	Closed treatment of tran	24	Plastic and Reconstructive Surgery	1
25830	Arthrodesis, distal radio	24	Plastic and Reconstructive Surgery	1
25907	Amputation, forearm, thi	24	Plastic and Reconstructive Surgery	1
25924	Disarticulation through v	24	Plastic and Reconstructive Surgery	1
26185	Sesamoidectomy, thumb	24	Plastic and Reconstructive Surgery	1
26250	Radical resection, metac	24	Plastic and Reconstructive Surgery	1
26261	Radical resection, proxim	24	Plastic and Reconstructive Surgery	1
26416	Removal of synthetic roc	24	Plastic and Reconstructive Surgery	1
26517	Capsulodesis, metacarp	24	Plastic and Reconstructive Surgery	1
26550	Pollicization of a digit	24	Plastic and Reconstructive Surgery	1
26560	Repair of syndactyly (we	24	Plastic and Reconstructive Surgery	1
26590	Repair macrodactylia, e	24	Plastic and Reconstructive Surgery	1
26645	Closed treatment of carp	24	Plastic and Reconstructive Surgery	1
26686	Open treatment of carpd	24	Plastic and Reconstructive Surgery	1
27000	Tenotomy, adductor of h	24	Plastic and Reconstructive Surgery	1
27003	Tenotomy, adductor, sul	24	Plastic and Reconstructive Surgery	1
27005	Tenotomy, hip flexor(s),	24	Plastic and Reconstructive Surgery	1
27036	Capsulectomy or capsul	24	Plastic and Reconstructive Surgery	1
27054	Arthrotomy with synovec	24	Plastic and Reconstructive Surgery	1
27066	Excision of bone cyst or	24	Plastic and Reconstructive Surgery	1

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27146	Osteotomy, iliac, acetab	24	Plastic and Reconstructive Surgery	1
27170	Bone graft, femoral head	24	Plastic and Reconstructive Surgery	1
27193	Closed treatment of pelv	24	Plastic and Reconstructive Surgery	1
27220	Closed treatment of ace	24	Plastic and Reconstructive Surgery	1
27230	Closed treatment of fem	24	Plastic and Reconstructive Surgery	1
27238	Closed treatment of inte	24	Plastic and Reconstructive Surgery	1
27254	Open treatment of hip di	24	Plastic and Reconstructive Surgery	1
27265	Closed treatment of pos	24	Plastic and Reconstructive Surgery	1
27266	Closed treatment of pos	24	Plastic and Reconstructive Surgery	1
27306	Tenotomy, percutaneous	24	Plastic and Reconstructive Surgery	1
27307	Tenotomy, percutaneous	24	Plastic and Reconstructive Surgery	1
27332	Arthrotomy, with excisio	24	Plastic and Reconstructive Surgery	1
27386	Suture of quadriceps or	24	Plastic and Reconstructive Surgery	1
27391	Tenotomy, open, hamstr	24	Plastic and Reconstructive Surgery	1
27392	Tenotomy, open, hamstr	24	Plastic and Reconstructive Surgery	1
27394	Lengthening of hamstrin	24	Plastic and Reconstructive Surgery	1
27425	Lateral retinacular relea	24	Plastic and Reconstructive Surgery	1
27427	Ligamentous reconstruc	24	Plastic and Reconstructive Surgery	1
27429	Ligamentous reconstruc	24	Plastic and Reconstructive Surgery	1
27435	Capsulotomy, posterior	24	Plastic and Reconstructive Surgery	1
27465	Osteoplasty, femur; sho	24	Plastic and Reconstructive Surgery	1
27486	Revision of total knee ar	24	Plastic and Reconstructive Surgery	1
27488	Removal of prosthesis, i	24	Plastic and Reconstructive Surgery	1
27497	Decompression fascioto	24	Plastic and Reconstructive Surgery	1
27499	Decompression fascioto	24	Plastic and Reconstructive Surgery	1
27501	Closed treatment of sup	24	Plastic and Reconstructive Surgery	1
27513	Open treatment of femo	24	Plastic and Reconstructive Surgery	1
27520	Closed treatment of pate	24	Plastic and Reconstructive Surgery	1
27536	Open treatment of tibial	24	Plastic and Reconstructive Surgery	1
27556	Open treatment of knee	24	Plastic and Reconstructive Surgery	1
27580	Arthrodesis, knee, any t	24	Plastic and Reconstructive Surgery	1
27591	Amputation, thigh, throu	24	Plastic and Reconstructive Surgery	1
27612	Arthrotomy, posterior ca	24	Plastic and Reconstructive Surgery	1
27625	Arthrotomy, with synove	24	Plastic and Reconstructive Surgery	1
27635	Excision or curettage of	24	Plastic and Reconstructive Surgery	1
27645	Radical resection of tum	24	Plastic and Reconstructive Surgery	1
27646	Radical resection of tum	24	Plastic and Reconstructive Surgery	1
27650	Repair, primary, open or	24	Plastic and Reconstructive Surgery	1
27656	Repair, fascial defect of	24	Plastic and Reconstructive Surgery	1
27659	Repair, flexor tendon, le	24	Plastic and Reconstructive Surgery	1
27691	Transfer or transplant of	24	Plastic and Reconstructive Surgery	1
27750	Closed treatment of tibia	24	Plastic and Reconstructive Surgery	1
27758	Open treatment of tibial	24	Plastic and Reconstructive Surgery	1
27760	Closed treatment of med	24	Plastic and Reconstructive Surgery	1
27766	Open treatment of medi	24	Plastic and Reconstructive Surgery	1
27786	Closed treatment of dist	24	Plastic and Reconstructive Surgery	1
27808	Closed treatment of bim	24	Plastic and Reconstructive Surgery	1
27870	Arthrodesis, ankle, oper	24	Plastic and Reconstructive Surgery	1
27888	Amputation, ankle, throu	24	Plastic and Reconstructive Surgery	1
27893	Decompression fascioto	24	Plastic and Reconstructive Surgery	1
28024	Arthrotomy, including ex	24	Plastic and Reconstructive Surgery	1
28050	Arthrotomy with biopsy;	24	Plastic and Reconstructive Surgery	1

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28054	Arthrotomy with biopsy;	24	Plastic and Reconstructive Surgery	1
28062	Fasciectomy, plantar fas	24	Plastic and Reconstructive Surgery	1
28080	Excision, interdigital (Mc	24	Plastic and Reconstructive Surgery	1
28153	Resection, condyle(s), d	24	Plastic and Reconstructive Surgery	1
28171	Radical resection of tum	24	Plastic and Reconstructive Surgery	1
28270	Capsulotomy; metatarsc	24	Plastic and Reconstructive Surgery	1
28272	Capsulotomy; interphala	24	Plastic and Reconstructive Surgery	1
28290	Correction, hallux valgus	24	Plastic and Reconstructive Surgery	1
28293	Correction, hallux valgus	24	Plastic and Reconstructive Surgery	1
28296	Correction, hallux valgus	24	Plastic and Reconstructive Surgery	1
28300	Osteotomy; calcaneus (c	24	Plastic and Reconstructive Surgery	1
28308	Osteotomy, with or witho	24	Plastic and Reconstructive Surgery	1
28310	Osteotomy, shortening,	24	Plastic and Reconstructive Surgery	1
28312	Osteotomy, shortening,	24	Plastic and Reconstructive Surgery	1
28475	Closed treatment of met	24	Plastic and Reconstructive Surgery	1
28510	Closed treatment of frac	24	Plastic and Reconstructive Surgery	1
28585	Open treatment of talota	24	Plastic and Reconstructive Surgery	1
28645	Open treatment of meta	24	Plastic and Reconstructive Surgery	1
28705	Arthrodesis; pantalar	24	Plastic and Reconstructive Surgery	1
28755	Arthrodesis, great toe; in	24	Plastic and Reconstructive Surgery	1
29804	Arthroscopy, temporoma	24	Plastic and Reconstructive Surgery	1
29825	Arthroscopy, shoulder, s	24	Plastic and Reconstructive Surgery	1
29834	Arthroscopy, elbow, surg	24	Plastic and Reconstructive Surgery	1
29838	Arthroscopy, elbow, surg	24	Plastic and Reconstructive Surgery	1
29850	Arthroscopically aided tr	24	Plastic and Reconstructive Surgery	1
29861	Arthroscopy, hip, surgica	24	Plastic and Reconstructive Surgery	1
29873	Arthroscopy, knee, surg	24	Plastic and Reconstructive Surgery	1
29877	Arthroscopy, knee, surg	24	Plastic and Reconstructive Surgery	1
31050	Sinusotomy, sphenoid, v	24	Plastic and Reconstructive Surgery	1
31080	Sinusotomy frontal; oblit	24	Plastic and Reconstructive Surgery	1
31084	Sinusotomy frontal; oblit	24	Plastic and Reconstructive Surgery	1
31086	Sinusotomy frontal; non	24	Plastic and Reconstructive Surgery	1
31365	Laryngectomy; total, with	24	Plastic and Reconstructive Surgery	1
31588	Laryngoplasty, not other	24	Plastic and Reconstructive Surgery	1
31750	Tracheoplasty; cervical	24	Plastic and Reconstructive Surgery	1
32035	Thoracostomy; with rib r	24	Plastic and Reconstructive Surgery	1
32110	Thoracotomy, major; wit	24	Plastic and Reconstructive Surgery	1
32140	Thoracotomy, major; wit	24	Plastic and Reconstructive Surgery	1
32657	Thoracoscopy, surgical;	24	Plastic and Reconstructive Surgery	1
32665	Thoracoscopy, surgical;	24	Plastic and Reconstructive Surgery	1
33031	Pericardiectomy, subtota	24	Plastic and Reconstructive Surgery	1
33214	Upgrade of implanted pa	24	Plastic and Reconstructive Surgery	1
33249	Insertion or repositioning	24	Plastic and Reconstructive Surgery	1
33320	Suture repair of aorta or	24	Plastic and Reconstructive Surgery	1
33411	Replacement, aortic valv	24	Plastic and Reconstructive Surgery	1
33464	Valvuloplasty, tricuspid v	24	Plastic and Reconstructive Surgery	1
33504	Repair of anomalous co	24	Plastic and Reconstructive Surgery	1
33535	Coronary artery bypass,	24	Plastic and Reconstructive Surgery	1
33536	Coronary artery bypass,	24	Plastic and Reconstructive Surgery	1
33681	Closure of single ventric	24	Plastic and Reconstructive Surgery	1
33863	Ascending aorta graft, w	24	Plastic and Reconstructive Surgery	1
33870	Transverse arch graft, w	24	Plastic and Reconstructive Surgery	1

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33875	Descending thoracic aor	24	Plastic and Reconstructive Surgery	1
33971	Removal of intra-aortic b	24	Plastic and Reconstructive Surgery	1
33980	Removal of ventricular a	24	Plastic and Reconstructive Surgery	1
34101	Embolectomy or thromb	24	Plastic and Reconstructive Surgery	1
34151	Embolectomy or thromb	24	Plastic and Reconstructive Surgery	1
34203	Embolectomy or thromb	24	Plastic and Reconstructive Surgery	1
34490	Thrombectomy, direct o	24	Plastic and Reconstructive Surgery	1
34802	Endovascular repair of il	24	Plastic and Reconstructive Surgery	1
34825	Placement of proximal c	24	Plastic and Reconstructive Surgery	1
35082	Direct repair of aneurysr	24	Plastic and Reconstructive Surgery	1
35091	Direct repair of aneurysr	24	Plastic and Reconstructive Surgery	1
35142	Direct repair of aneurysr	24	Plastic and Reconstructive Surgery	1
35188	Repair, acquired or trau	24	Plastic and Reconstructive Surgery	1
35189	Repair, acquired or trau	24	Plastic and Reconstructive Surgery	1
35221	Repair blood vessel, dire	24	Plastic and Reconstructive Surgery	1
35261	Repair blood vessel with	24	Plastic and Reconstructive Surgery	1
35321	Thromboendarterectomy	24	Plastic and Reconstructive Surgery	1
35331	Thromboendarterectomy	24	Plastic and Reconstructive Surgery	1
35351	Thromboendarterectomy	24	Plastic and Reconstructive Surgery	1
35372	Thromboendarterectomy	24	Plastic and Reconstructive Surgery	1
35518	Bypass graft, with vein; a	24	Plastic and Reconstructive Surgery	1
35522	Bypass graft, with vein; a	24	Plastic and Reconstructive Surgery	1
35525	Bypass graft, with vein; i	24	Plastic and Reconstructive Surgery	1
35526	Bypass graft, with vein; a	24	Plastic and Reconstructive Surgery	1
35601	Bypass graft, with other	24	Plastic and Reconstructive Surgery	1
35646	Bypass graft, with other	24	Plastic and Reconstructive Surgery	1
35654	Bypass graft, with other	24	Plastic and Reconstructive Surgery	1
35666	Bypass graft, with other	24	Plastic and Reconstructive Surgery	1
35694	Transposition and/or rei	24	Plastic and Reconstructive Surgery	1
35695	Transposition and/or rei	24	Plastic and Reconstructive Surgery	1
35741	Exploration (not followe	24	Plastic and Reconstructive Surgery	1
35879	Revision, lower extremit	24	Plastic and Reconstructive Surgery	1
36823	Insertion of arterial and v	24	Plastic and Reconstructive Surgery	1
36833	Revision, open, arteriove	24	Plastic and Reconstructive Surgery	1
37600	Ligation; external carotic	24	Plastic and Reconstructive Surgery	1
37605	Ligation; internal or com	24	Plastic and Reconstructive Surgery	1
37650	Ligation of femoral vein	24	Plastic and Reconstructive Surgery	1
37780	Ligation and division of s	24	Plastic and Reconstructive Surgery	1
38115	Repair of ruptured splee	24	Plastic and Reconstructive Surgery	1
38120	Laparoscopy, surgical, s	24	Plastic and Reconstructive Surgery	1
38555	Excision of cystic hydror	24	Plastic and Reconstructive Surgery	1
39520	Repair, diaphragmatic h	24	Plastic and Reconstructive Surgery	1
39531	Repair, diaphragmatic h	24	Plastic and Reconstructive Surgery	1
39561	Resection, diaphragm; v	24	Plastic and Reconstructive Surgery	1
40819	Excision of frenum, labia	24	Plastic and Reconstructive Surgery	1
40842	Vestibuloplasty; posteric	24	Plastic and Reconstructive Surgery	1
40844	Vestibuloplasty; entire a	24	Plastic and Reconstructive Surgery	1
41018	Extraoral incision and dr	24	Plastic and Reconstructive Surgery	1
41114	Excision of lesion of ton	24	Plastic and Reconstructive Surgery	1
41130	Glossectomy; hemigloss	24	Plastic and Reconstructive Surgery	1
41500	Fixation of tongue, mecl	24	Plastic and Reconstructive Surgery	1
41520	Frenoplasty (surgical rev	24	Plastic and Reconstructive Surgery	1

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42205	Palatoplasty for cleft pal	24	Plastic and Reconstructive Surgery	1
42220	Palatoplasty for cleft pal	24	Plastic and Reconstructive Surgery	1
42340	Sialolithotomy; parotid, e	24	Plastic and Reconstructive Surgery	1
42836	Adenoidectomy, second	24	Plastic and Reconstructive Surgery	1
42962	Control oropharyngeal h	24	Plastic and Reconstructive Surgery	1
42970	Control of nasopharynge	24	Plastic and Reconstructive Surgery	1
43117	Partial esophagectomy,	24	Plastic and Reconstructive Surgery	1
43121	Partial esophagectomy,	24	Plastic and Reconstructive Surgery	1
43300	Esophagoplasty (plastic	24	Plastic and Reconstructive Surgery	1
43330	Esophagomyotomy (Hell	24	Plastic and Reconstructive Surgery	1
43361	Gastrointestinal reconstr	24	Plastic and Reconstructive Surgery	1
43420	Closure of esophagosto	24	Plastic and Reconstructive Surgery	1
43500	Gastrotomy; with explor	24	Plastic and Reconstructive Surgery	1
43610	Excision, local; ulcer or l	24	Plastic and Reconstructive Surgery	1
43611	Excision, local; malignar	24	Plastic and Reconstructive Surgery	1
43632	Gastrectomy, partial, dis	24	Plastic and Reconstructive Surgery	1
43640	Vagotomy including pylc	24	Plastic and Reconstructive Surgery	1
43641	Vagotomy including pylc	24	Plastic and Reconstructive Surgery	1
43846	Gastric restrictive proce	24	Plastic and Reconstructive Surgery	1
43880	Closure of gastrocolic fis	24	Plastic and Reconstructive Surgery	1
44025	Colotomy, for exploratio	24	Plastic and Reconstructive Surgery	1
44144	Colectomy, partial; with	24	Plastic and Reconstructive Surgery	1
44146	Colectomy, partial; with	24	Plastic and Reconstructive Surgery	1
44310	Ileostomy or jejunostom	24	Plastic and Reconstructive Surgery	1
44615	Intestinal stricturoplasty	24	Plastic and Reconstructive Surgery	1
44650	Closure of enteroenteric	24	Plastic and Reconstructive Surgery	1
44820	Excision of lesion of me	24	Plastic and Reconstructive Surgery	1
45100	Biopsy of anorectal wall,	24	Plastic and Reconstructive Surgery	1
45112	Proctectomy, combined	24	Plastic and Reconstructive Surgery	1
45123	Proctectomy, partial, wit	24	Plastic and Reconstructive Surgery	1
45400	Laparoscopy, surgical; p	24	Plastic and Reconstructive Surgery	1
45820	Closure of rectourethral	24	Plastic and Reconstructive Surgery	1
46200	Fissurectomy, with or wi	24	Plastic and Reconstructive Surgery	1
46270	Surgical treatment of an	24	Plastic and Reconstructive Surgery	1
46280	Surgical treatment of an	24	Plastic and Reconstructive Surgery	1
46288	Closure of anal fistula w	24	Plastic and Reconstructive Surgery	1
47120	Hepatectomy, resection	24	Plastic and Reconstructive Surgery	1
47564	Laparoscopy, surgical; c	24	Plastic and Reconstructive Surgery	1
48100	Biopsy of pancreas, ope	24	Plastic and Reconstructive Surgery	1
48510	External drainage, pseu	24	Plastic and Reconstructive Surgery	1
49010	Exploration, retroperiton	24	Plastic and Reconstructive Surgery	1
49060	Drainage of retroperiton	24	Plastic and Reconstructive Surgery	1
49421	Insertion of intraperitone	24	Plastic and Reconstructive Surgery	1
49550	Repair initial femoral he	24	Plastic and Reconstructive Surgery	1
49553	Repair initial femoral he	24	Plastic and Reconstructive Surgery	1
49557	Repair recurrent femora	24	Plastic and Reconstructive Surgery	1
49605	Repair of large omphalo	24	Plastic and Reconstructive Surgery	1
49606	Repair of large omphalo	24	Plastic and Reconstructive Surgery	1
50120	Pyelotomy; with explorat	24	Plastic and Reconstructive Surgery	1
50240	Nephrectomy, partial	24	Plastic and Reconstructive Surgery	1
50600	Ureterotomy with explor	24	Plastic and Reconstructive Surgery	1
50605	Ureterotomy for insertio	24	Plastic and Reconstructive Surgery	1

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50728	Revision of urinary-cuta	24	Plastic and Reconstructive Surgery	1
50780	Ureteroneocystostomy; r	24	Plastic and Reconstructive Surgery	1
51050	Cystolithotomy, cystoton	24	Plastic and Reconstructive Surgery	1
51595	Cystectomy, complete, v	24	Plastic and Reconstructive Surgery	1
51596	Cystectomy, complete, v	24	Plastic and Reconstructive Surgery	1
51865	Cystorrhaphy, suture of	24	Plastic and Reconstructive Surgery	1
51900	Closure of vesicovagina	24	Plastic and Reconstructive Surgery	1
52601	Transurethral electrosur	24	Plastic and Reconstructive Surgery	1
52612	Transurethral resection	24	Plastic and Reconstructive Surgery	1
53215	Urethrectomy, total, incl	24	Plastic and Reconstructive Surgery	1
53445	Insertion of inflatable ure	24	Plastic and Reconstructive Surgery	1
53450	Urethromeatoplasty, with	24	Plastic and Reconstructive Surgery	1
53502	Urethrorrhaphy, suture d	24	Plastic and Reconstructive Surgery	1
53505	Urethrorrhaphy, suture d	24	Plastic and Reconstructive Surgery	1
54300	Plastic operation of peni	24	Plastic and Reconstructive Surgery	1
54312	Urethroplasty for second	24	Plastic and Reconstructive Surgery	1
54324	One stage distal hyposp	24	Plastic and Reconstructive Surgery	1
54352	Repair of hypospadias c	24	Plastic and Reconstructive Surgery	1
54530	Orchiectomy, radical, fo	24	Plastic and Reconstructive Surgery	1
54560	Exploration for undesce	24	Plastic and Reconstructive Surgery	1
54660	Insertion of testicular pro	24	Plastic and Reconstructive Surgery	1
55040	Excision of hydrocele; u	24	Plastic and Reconstructive Surgery	1
55041	Excision of hydrocele; b	24	Plastic and Reconstructive Surgery	1
55110	Scrotal exploration	24	Plastic and Reconstructive Surgery	1
55520	Excision of lesion of spe	24	Plastic and Reconstructive Surgery	1
55530	Excision of varicocele or	24	Plastic and Reconstructive Surgery	1
55821	Prostatectomy (including	24	Plastic and Reconstructive Surgery	1
55866	Laparoscopy, surgical p	24	Plastic and Reconstructive Surgery	1
56633	Vulvectomy, radical, cor	24	Plastic and Reconstructive Surgery	1
57120	Colpocleisis (Le Fort typ	24	Plastic and Reconstructive Surgery	1
57200	Colporrhaphy, suture of	24	Plastic and Reconstructive Surgery	1
57210	Colpoperineorrhaphy, su	24	Plastic and Reconstructive Surgery	1
57265	Combined anteroposteri	24	Plastic and Reconstructive Surgery	1
57287	Removal or revision of s	24	Plastic and Reconstructive Surgery	1
57289	Pereyra procedure, inclu	24	Plastic and Reconstructive Surgery	1
57307	Closure of rectovaginal t	24	Plastic and Reconstructive Surgery	1
57308	Closure of rectovaginal t	24	Plastic and Reconstructive Surgery	1
57425	Laparoscopy, surgical, c	24	Plastic and Reconstructive Surgery	1
58180	Supracervical abdomina	24	Plastic and Reconstructive Surgery	1
58260	Vaginal hysterectomy, fo	24	Plastic and Reconstructive Surgery	1
58900	Biopsy of ovary, unilater	24	Plastic and Reconstructive Surgery	1
58940	Oophorectomy, partial o	24	Plastic and Reconstructive Surgery	1
58952	Resection (initial) of ova	24	Plastic and Reconstructive Surgery	1
60200	Excision of cyst or aden	24	Plastic and Reconstructive Surgery	1
60210	Partial thyroid lobectomy	24	Plastic and Reconstructive Surgery	1
60254	Thyroidectomy, total or s	24	Plastic and Reconstructive Surgery	1
60270	Thyroidectomy, including	24	Plastic and Reconstructive Surgery	1
60281	Excision of thyroglossal	24	Plastic and Reconstructive Surgery	1
60502	Parathyroidectomy or ex	24	Plastic and Reconstructive Surgery	1
61108	Twist drill hole(s) for sub	24	Plastic and Reconstructive Surgery	1
61154	Burr hole(s) with evacua	24	Plastic and Reconstructive Surgery	1
61312	Craniectomy or cranioto	24	Plastic and Reconstructive Surgery	1

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61548	Hypophysectomy or exc	24	Plastic and Reconstructive Surgery	1
61583	Craniofacial approach to	24	Plastic and Reconstructive Surgery	1
61590	Infratemporal pre-auricu	24	Plastic and Reconstructive Surgery	1
61592	Orbitocranial zygomatic	24	Plastic and Reconstructive Surgery	1
61595	Transtemporal approach	24	Plastic and Reconstructive Surgery	1
61600	Resection or excision of	24	Plastic and Reconstructive Surgery	1
61601	Resection or excision of	24	Plastic and Reconstructive Surgery	1
62005	Elevation of depressed s	24	Plastic and Reconstructive Surgery	1
62100	Craniotomy for repair of	24	Plastic and Reconstructive Surgery	1
62146	Cranioplasty with autogr	24	Plastic and Reconstructive Surgery	1
62223	Creation of shunt; ventri	24	Plastic and Reconstructive Surgery	1
62230	Replacement or revisior	24	Plastic and Reconstructive Surgery	1
62256	Removal of complete ce	24	Plastic and Reconstructive Surgery	1
62351	Implantation, revision or	24	Plastic and Reconstructive Surgery	1
63267	Laminectomy for excisio	24	Plastic and Reconstructive Surgery	1
63277	Laminectomy for biopsy,	24	Plastic and Reconstructive Surgery	1
63282	Laminectomy for biopsy,	24	Plastic and Reconstructive Surgery	1
64818	Sympathectomy, lumbar	24	Plastic and Reconstructive Surgery	1
64840	Suture of posterior tibial	24	Plastic and Reconstructive Surgery	1
64861	Suture of; brachial plexu	24	Plastic and Reconstructive Surgery	1
64868	Anastomosis; facial-hyp	24	Plastic and Reconstructive Surgery	1
65125	Modification of ocular im	24	Plastic and Reconstructive Surgery	1
65150	Reinsertion of ocular im	24	Plastic and Reconstructive Surgery	1
65175	Removal of ocular impla	24	Plastic and Reconstructive Surgery	1
65272	Repair of laceration; cor	24	Plastic and Reconstructive Surgery	1
65420	Excision or transpositio	24	Plastic and Reconstructive Surgery	1
65780	Ocular surface reconstru	24	Plastic and Reconstructive Surgery	1
65870	Severing adhesions of a	24	Plastic and Reconstructive Surgery	1
66825	Repositioning of intraocu	24	Plastic and Reconstructive Surgery	1
67110	Repair of retinal detach	24	Plastic and Reconstructive Surgery	1
67440	Orbitotomy with bone fla	24	Plastic and Reconstructive Surgery	1
67450	Orbitotomy with bone fla	24	Plastic and Reconstructive Surgery	1
67570	Optic nerve decompress	24	Plastic and Reconstructive Surgery	1
67922	Repair of entropion; the	24	Plastic and Reconstructive Surgery	1
68340	Repair of symblepharon	24	Plastic and Reconstructive Surgery	1
68745	Conjunctivorhinostomy (	24	Plastic and Reconstructive Surgery	1
69501	Transmastoid antrotomy	24	Plastic and Reconstructive Surgery	1
69535	Resection temporal bon	24	Plastic and Reconstructive Surgery	1
69550	Excision aural glomus tu	24	Plastic and Reconstructive Surgery	1
69554	Excision aural glomus tu	24	Plastic and Reconstructive Surgery	1
69602	Revision mastoidectomy	24	Plastic and Reconstructive Surgery	1
69641	Tympanoplasty with mas	24	Plastic and Reconstructive Surgery	1
69642	Tympanoplasty with mas	24	Plastic and Reconstructive Surgery	1
69700	Closure postauricular fis	24	Plastic and Reconstructive Surgery	1
44188	Laparoscopy, surgical, c	24	Plastic and Reconstructive Surgery	1
58552	Laparoscopy, surgical, v	24	Plastic and Reconstructive Surgery	1
43886	Gastric restrictive proce	24	Plastic and Reconstructive Surgery	1
43887	Gastric restrictive proce	24	Plastic and Reconstructive Surgery	1
43888	Gastric restrictive proce	24	Plastic and Reconstructive Surgery	1
58957	Resection (tumor debulk	24	Plastic and Reconstructive Surgery	1
45395	Laparoscopy, surgical; p	24	Plastic and Reconstructive Surgery	1
43770	Laparoscopy, surgical, c	24	Plastic and Reconstructive Surgery	0

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43774	Laparoscopy, surgical, g	24	Plastic and Reconstructive Surgery	0	
33265	Endoscopy, surgical; op	24	Plastic and Reconstructive Surgery	0	
33266	Endoscopy, surgical; op	24	Plastic and Reconstructive Surgery	0	
32504	Resection of apical lung	24	Plastic and Reconstructive Surgery	0	
58548	Laparoscopy, surgical, v	24	Plastic and Reconstructive Surgery	0	
33203	Insertion of epicardial el	24	Plastic and Reconstructive Surgery	0	
38780	Retroperitoneal transab	24	Plastic and Reconstructive Surgery	0	
32503	Resection of apical lung	24	Plastic and Reconstructive Surgery	0	
58958	Resection (tumor debulk	24	Plastic and Reconstructive Surgery	0	
64910	Nerve repair; with synthe	24	Plastic and Reconstructive Surgery	0	
64911	Nerve repair; with autog	24	Plastic and Reconstructive Surgery	0	
57296	Revision (including remo	24	Plastic and Reconstructive Surgery	0	
33507	Repair of anomalous (eg	24	Plastic and Reconstructive Surgery	0	
33548	Surgical ventricular rest	24	Plastic and Reconstructive Surgery	0	
58542	Laparoscopy, surgical, s	24	Plastic and Reconstructive Surgery	0	
46710	Repair of ileoanal pouch	24	Plastic and Reconstructive Surgery	0	
46712	Repair of ileoanal pouch	24	Plastic and Reconstructive Surgery	0	244,969
38525	Biopsy or excision of lym	91	Surgical Oncology	2,535	
19301	Mastectomy, partial (eg,	91	Surgical Oncology	2,410	
19125	Excision of breast lesio	91	Surgical Oncology	1,694	
19303	Mastectomy, simple, cor	91	Surgical Oncology	997	
19120	Excision of cyst, fibroad	91	Surgical Oncology	955	
19307	Mastectomy, modified ra	91	Surgical Oncology	730	
19302	Mastectomy, partial (eg,	91	Surgical Oncology	625	
47562	Laparoscopy, surgical; c	91	Surgical Oncology	621	
47600	Cholecystectomy;	91	Surgical Oncology	619	
60500	Parathyroidectomy or ex	91	Surgical Oncology	586	
44140	Colectomy, partial; with	91	Surgical Oncology	558	
44120	Enterectomy, resection	91	Surgical Oncology	493	
38745	Axillary lymphadenectom	91	Surgical Oncology	418	
44160	Colectomy, partial, with	91	Surgical Oncology	414	
38740	Axillary lymphadenectom	91	Surgical Oncology	347	
47100	Biopsy of liver, wedge	91	Surgical Oncology	319	
47120	Hepatectomy, resection	91	Surgical Oncology	319	
49505	Repair initial inguinal he	91	Surgical Oncology	302	
60240	Thyroidectomy, total or	91	Surgical Oncology	301	
49560	Repair initial incisional	91	Surgical Oncology	283	
44145	Colectomy, partial; with	91	Surgical Oncology	274	
21015	Radical resection of tum	91	Surgical Oncology	263	
48150	Pancreatectomy, proxim	91	Surgical Oncology	261	
47563	Laparoscopy, surgical; c	91	Surgical Oncology	219	
49000	Exploratory laparotomy,	91	Surgical Oncology	213	
38308	Lymphangiomy or othe	91	Surgical Oncology	211	
44143	Colectomy, partial; with	91	Surgical Oncology	190	
60220	Total thyroid lobectomy,	91	Surgical Oncology	189	
58150	Total abdominal hystere	91	Surgical Oncology	184	
14300	Adjacent tissue transfer	91	Surgical Oncology	172	
38724	Cervical lymphadenecto	91	Surgical Oncology	171	
48140	Pancreatectomy, distal	91	Surgical Oncology	168	
15100	Split-thickness autograft	91	Surgical Oncology	165	
43820	Gastrojejunostomy; with	91	Surgical Oncology	158	
38760	Inguinofemoral lymphad	91	Surgical Oncology	150	

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21557	Radical resection of tum	91	Surgical Oncology	146
44005	Enterolysis (freeing of in	91	Surgical Oncology	144
48153	Pancreatectomy, proxim	91	Surgical Oncology	142
21935	Radical resection of tum	91	Surgical Oncology	138
21555	Excision tumor, soft tiss	91	Surgical Oncology	131
43830	Gastrostomy, open; with	91	Surgical Oncology	127
20926	Tissue grafts, other (eg,	91	Surgical Oncology	124
14040	Adjacent tissue transfer	91	Surgical Oncology	123
27329	Radical resection of tum	91	Surgical Oncology	121
58720	Salpingo-oophorectomy	91	Surgical Oncology	120
43632	Gastrectomy, partial, dis	91	Surgical Oncology	119
47380	Ablation, open, of one o	91	Surgical Oncology	119
49585	Repair umbilical hernia,	91	Surgical Oncology	117
14001	Adjacent tissue transfer	91	Surgical Oncology	116
47130	Hepatectomy, resection	91	Surgical Oncology	110
21556	Excision tumor, soft tiss	91	Surgical Oncology	108
38100	Splenectomy; total (sepa	91	Surgical Oncology	107
49002	Reopening of recent lap	91	Surgical Oncology	104
44320	Colostomy or skin level	91	Surgical Oncology	102
22900	Excision, abdominal wal	91	Surgical Oncology	101
44205	Laparoscopy, surgical; c	91	Surgical Oncology	100
21930	Excision, tumor, soft tiss	91	Surgical Oncology	98
36820	Arteriovenous anastomc	91	Surgical Oncology	98
44310	Ileostomy or jejunostom	91	Surgical Oncology	98
24077	Radical resection of tum	91	Surgical Oncology	97
49020	Drainage of peritoneal a	91	Surgical Oncology	97
58210	Radical abdominal hyste	91	Surgical Oncology	92
15120	Split-thickness autograft	91	Surgical Oncology	90
44204	Laparoscopy, surgical; c	91	Surgical Oncology	90
49561	Repair initial incisional o	91	Surgical Oncology	90
50360	Renal allotransplantatio	91	Surgical Oncology	90
14000	Adjacent tissue transfer	91	Surgical Oncology	88
14020	Adjacent tissue transfer	91	Surgical Oncology	86
14021	Adjacent tissue transfer	91	Surgical Oncology	82
43621	Gastrectomy, total; with	91	Surgical Oncology	82
43611	Excision, local; malignar	91	Surgical Oncology	80
44300	Placement, enterostomy	91	Surgical Oncology	79
44602	Suture of small intestine	91	Surgical Oncology	76
47780	Anastomosis, Roux-en-)	91	Surgical Oncology	75
58200	Total abdominal hystere	91	Surgical Oncology	72
19110	Nipple exploration, with	91	Surgical Oncology	71
45170	Excision of rectal tumor,	91	Surgical Oncology	71
15738	Muscle, myocutaneous,	91	Surgical Oncology	70
47605	Cholecystectomy; with c	91	Surgical Oncology	70
15734	Muscle, myocutaneous,	91	Surgical Oncology	69
49565	Repair recurrent incision	91	Surgical Oncology	67
43117	Partial esophagectomy,	91	Surgical Oncology	66
44150	Colectomy, total, abdom	91	Surgical Oncology	66
45110	Proctectomy; complete,	91	Surgical Oncology	64
23077	Radical resection of tum	91	Surgical Oncology	64
44050	Reduction of volvulus, ir	91	Surgical Oncology	62
27049	Radical resection of tum	91	Surgical Oncology	61

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27615	Radical resection of tum	91	Surgical Oncology	61
38765	Inguinofemoral lymphad	91	Surgical Oncology	61
43633	Gastrectomy, partial, dis	91	Surgical Oncology	61
49507	Repair initial inguinal he	91	Surgical Oncology	61
60252	Thyroidectomy, total or s	91	Surgical Oncology	60
32480	Removal of lung, other t	91	Surgical Oncology	58
19020	Mastotomy with explorat	91	Surgical Oncology	58
49587	Repair umbilical hernia,	91	Surgical Oncology	58
15220	Full thickness graft, free	91	Surgical Oncology	56
15240	Full thickness graft, free	91	Surgical Oncology	56
58952	Resection (initial) of ova	91	Surgical Oncology	56
14060	Adjacent tissue transfer	91	Surgical Oncology	55
33533	Coronary artery bypass,	91	Surgical Oncology	55
42415	Excision of parotid tumo	91	Surgical Oncology	55
43107	Total or near total esoph	91	Surgical Oncology	55
44950	Appendectomy;	91	Surgical Oncology	55
44970	Laparoscopy, surgical, a	91	Surgical Oncology	55
44625	Closure of enterostomy,	91	Surgical Oncology	55
44146	Colectomy, partial; with	91	Surgical Oncology	54
48100	Biopsy of pancreas, ope	91	Surgical Oncology	54
14041	Adjacent tissue transfer	91	Surgical Oncology	53
25077	Radical resection of tum	91	Surgical Oncology	53
44110	Excision of one or more	91	Surgical Oncology	52
60271	Thyroidectomy, includin	91	Surgical Oncology	52
38542	Dissection, deep jugular	91	Surgical Oncology	51
38562	Limited lymphadenector	91	Surgical Oncology	51
39560	Resection, diaphragm; v	91	Surgical Oncology	51
49566	Repair recurrent incisor	91	Surgical Oncology	51
77778	Interstitial radiation sour	91	Surgical Oncology	51
44227	Laparoscopy, surgical, c	91	Surgical Oncology	50
39502	Repair, paraesophageal	91	Surgical Oncology	49
13160	Secondary closure of su	91	Surgical Oncology	48
47125	Hepatectomy, resection	91	Surgical Oncology	48
44130	Enteroenterostomy, ana	91	Surgical Oncology	48
38700	Suprahyoid lymphadene	91	Surgical Oncology	47
49900	Suture, secondary, of ab	91	Surgical Oncology	45
60260	Thyroidectomy, removal	91	Surgical Oncology	44
35301	Thromboendarterectomy	91	Surgical Oncology	43
44141	Colectomy, partial; with	91	Surgical Oncology	43
44180	Laparoscopy, surgical, e	91	Surgical Oncology	43
44620	Closure of enterostomy,	91	Surgical Oncology	43
56620	Vulvectomy simple; part	91	Surgical Oncology	43
32657	Thoracoscopy, surgical;	91	Surgical Oncology	42
43840	Gastrorrhaphy, suture o	91	Surgical Oncology	42
47610	Cholecystectomy with ex	91	Surgical Oncology	42
60540	Adrenalectomy, partial c	91	Surgical Oncology	42
45395	Laparoscopy, surgical; p	91	Surgical Oncology	42
43770	Laparoscopy, surgical, g	91	Surgical Oncology	41
44626	Closure of enterostomy,	91	Surgical Oncology	41
44960	Appendectomy; for ruptu	91	Surgical Oncology	41
49421	Insertion of intraperitone	91	Surgical Oncology	41
58954	Bilateral salpingo-oopho	91	Surgical Oncology	40

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24076	Excision, tumor, soft tiss	91	Surgical Oncology	39
44207	Laparoscopy, surgical; c	91	Surgical Oncology	39
58940	Oophorectomy, partial o	91	Surgical Oncology	39
60210	Partial thyroid lobectomy	91	Surgical Oncology	39
23076	Excision, soft tissue tum	91	Surgical Oncology	38
27328	Excision, tumor, thigh or	91	Surgical Oncology	38
35221	Repair blood vessel, dire	91	Surgical Oncology	38
36823	Insertion of arterial and v	91	Surgical Oncology	38
38770	Pelvic lymphadenectomy	91	Surgical Oncology	38
50715	Ureterolysis, with or with	91	Surgical Oncology	37
58957	Resection (tumor debulk	91	Surgical Oncology	37
24075	Excision, tumor, soft tiss	91	Surgical Oncology	36
44144	Colectomy, partial; with	91	Surgical Oncology	36
47370	Laparoscopy, surgical, a	91	Surgical Oncology	36
60502	Parathyroidectomy or ex	91	Surgical Oncology	36
27619	Excision, tumor, leg or a	91	Surgical Oncology	34
43631	Gastrectomy, partial, dis	91	Surgical Oncology	33
28810	Amputation, metatarsal,	91	Surgical Oncology	32
58953	Bilateral salpingo-oopho	91	Surgical Oncology	32
49520	Repair recurrent inguina	91	Surgical Oncology	31
50230	Nephrectomy, including	91	Surgical Oncology	31
60225	Total thyroid lobectomy,	91	Surgical Oncology	31
15115	Epidermal autograft, fac	91	Surgical Oncology	30
43610	Excision, local; ulcer or l	91	Surgical Oncology	30
44604	Suture of large intestine	91	Surgical Oncology	30
58951	Resection (initial) of ova	91	Surgical Oncology	30
25076	Excision, tumor, soft tiss	91	Surgical Oncology	29
38120	Laparoscopy, surgical, s	91	Surgical Oncology	29
45111	Proctectomy; partial res	91	Surgical Oncology	29
49650	Laparoscopy, surgical; r	91	Surgical Oncology	29
57106	Vaginectomy, partial ren	91	Surgical Oncology	29
60520	Thymectomy, partial or t	91	Surgical Oncology	29
44188	Laparoscopy, surgical, c	91	Surgical Oncology	29
36830	Creation of arteriovenou	91	Surgical Oncology	28
43800	Pyloroplasty	91	Surgical Oncology	28
46040	Incision and drainage of	91	Surgical Oncology	28
60650	Laparoscopy, surgical, v	91	Surgical Oncology	28
69110	Excision external ear; pa	91	Surgical Oncology	28
44186	Laparoscopy, surgical; j	91	Surgical Oncology	27
56630	Vulvectomy, radical, par	91	Surgical Oncology	27
27327	Excision, tumor, thigh or	91	Surgical Oncology	26
37617	Ligation, major artery (e	91	Surgical Oncology	26
38720	Cervical lymphadenecto	91	Surgical Oncology	26
47122	Hepatectomy, resection	91	Surgical Oncology	26
50220	Nephrectomy, including	91	Surgical Oncology	26
19260	Excision of chest wall tu	91	Surgical Oncology	25
37620	Interruption, partial or c	91	Surgical Oncology	25
44020	Enterotomy, small intest	91	Surgical Oncology	25
35840	Exploration for postoper	91	Surgical Oncology	24
38520	Biopsy or excision of lym	91	Surgical Oncology	24
44010	Duodenotomy, for explo	91	Surgical Oncology	24
49215	Excision of presacral or	91	Surgical Oncology	24

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21501	Incision and drainage, d	91	Surgical Oncology	23
28046	Radical resection of tum	91	Surgical Oncology	23
36819	Arteriovenous anastomc	91	Surgical Oncology	23
41155	Glossectomy; composite	91	Surgical Oncology	23
44125	Enterectomy, resection	91	Surgical Oncology	23
44640	Closure of intestinal cuta	91	Surgical Oncology	23
44187	Laparoscopy, surgical; il	91	Surgical Oncology	22
43122	Partial esophagectomy,	91	Surgical Oncology	22
47785	Anastomosis, Roux-en-Y	91	Surgical Oncology	22
49060	Drainage of retroperiton	91	Surgical Oncology	22
27590	Amputation, thigh, throu	91	Surgical Oncology	21
27618	Excision, tumor, leg or a	91	Surgical Oncology	21
32500	Removal of lung, other t	91	Surgical Oncology	21
32650	Thoracoscopy, surgical;	91	Surgical Oncology	21
44603	Suture of small intestine	91	Surgical Oncology	21
45112	Proctectomy, combined	91	Surgical Oncology	21
47760	Anastomosis, of extrahe	91	Surgical Oncology	21
48105	Resection or debrideme	91	Surgical Oncology	21
49553	Repair initial femoral he	91	Surgical Oncology	21
51550	Cystectomy, partial; sim	91	Surgical Oncology	21
58960	Laparotomy, for staging	91	Surgical Oncology	21
19304	Mastectomy, subcutane	91	Surgical Oncology	20
27047	Excision, tumor, pelvis a	91	Surgical Oncology	20
19357	Breast reconstruction, in	91	Surgical Oncology	19
27048	Excision, tumor, pelvis a	91	Surgical Oncology	19
36832	Revision, open, arteriove	91	Surgical Oncology	19
45100	Biopsy of anorectal wall,	91	Surgical Oncology	19
48120	Excision of lesion of par	91	Surgical Oncology	19
49010	Exploration, retroperiton	91	Surgical Oncology	19
49419	Insertion of intraperitone	91	Surgical Oncology	19
15260	Full thickness graft, free	91	Surgical Oncology	18
15330	Acellular dermal allograf	91	Surgical Oncology	18
15570	Formation of direct or tu	91	Surgical Oncology	18
25075	Excision, tumor, soft tiss	91	Surgical Oncology	18
28825	Amputation, toe; interph	91	Surgical Oncology	18
41120	Glossectomy; less than	91	Surgical Oncology	18
43280	Laparoscopy, surgical, e	91	Surgical Oncology	18
44345	Revision of colostomy; c	91	Surgical Oncology	18
46255	Hemorrhoidectomy, inte	91	Surgical Oncology	18
47711	Excision of bile duct tum	91	Surgical Oncology	18
49402	Removal of peritoneal fo	91	Surgical Oncology	18
19305	Mastectomy, radical, inc	91	Surgical Oncology	17
27324	Biopsy, soft tissue of thi	91	Surgical Oncology	17
27880	Amputation, leg, through	91	Surgical Oncology	17
35903	Excision of infected graf	91	Surgical Oncology	17
19271	Excision of chest wall tu	91	Surgical Oncology	16
19300	Mastectomy for gynecor	91	Surgical Oncology	16
27301	Incision and drainage, d	91	Surgical Oncology	16
36260	Insertion of implantable	91	Surgical Oncology	16
43653	Laparoscopy, surgical; g	91	Surgical Oncology	16
44346	Revision of colostomy; v	91	Surgical Oncology	16
47010	Hepatotomy; for open di	91	Surgical Oncology	16

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55845	Prostatectomy, retropub	91	Surgical Oncology	16
57155	Insertion of uterine tand	91	Surgical Oncology	16
22558	Arthrodesis, anterior inte	91	Surgical Oncology	15
28820	Amputation, toe; metata	91	Surgical Oncology	15
33208	Insertion or replacement	91	Surgical Oncology	15
36262	Removal of implanted in	91	Surgical Oncology	15
42420	Excision of parotid tumo	91	Surgical Oncology	15
43520	Pyloromyotomy, cutting	91	Surgical Oncology	15
43605	Biopsy of stomach; by la	91	Surgical Oncology	15
44155	Colectomy, total, abdom	91	Surgical Oncology	15
45126	Pelvic exenteration for c	91	Surgical Oncology	15
56633	Vulvectomy, radical, cor	91	Surgical Oncology	15
57288	Sling operation for stres	91	Surgical Oncology	15
58950	Resection (initial) of ova	91	Surgical Oncology	15
60200	Excision of cyst or aden	91	Surgical Oncology	15
60545	Adrenalectomy, partial c	91	Surgical Oncology	15
15572	Formation of direct or tu	91	Surgical Oncology	14
31225	Maxillectomy; without or	91	Surgical Oncology	14
42410	Excision of parotid tumo	91	Surgical Oncology	14
43870	Closure of gastrostomy,	91	Surgical Oncology	14
46260	Hemorrhoidectomy, inte	91	Surgical Oncology	14
51860	Cystorrhaphy, suture of	91	Surgical Oncology	14
19316	Mastopexy	91	Surgical Oncology	13
26990	Incision and drainage, p	91	Surgical Oncology	13
27614	Biopsy, soft tissue of leg	91	Surgical Oncology	13
38564	Limited lymphadenector	91	Surgical Oncology	13
42440	Excision of submandibu	91	Surgical Oncology	13
43112	Total or near total esoph	91	Surgical Oncology	13
43832	Gastrostomy, open; with	91	Surgical Oncology	13
49250	Umbilectomy, omphalec	91	Surgical Oncology	13
49525	Repair inguinal hernia, s	91	Surgical Oncology	13
14061	Adjacent tissue transfer	91	Surgical Oncology	12
21800	Closed treatment of rib f	91	Surgical Oncology	12
37607	Ligation or banding of ar	91	Surgical Oncology	12
43640	Vagotomy including pylc	91	Surgical Oncology	12
43860	Revision of gastrojejuna	91	Surgical Oncology	12
47420	Choledochotomy or cho	91	Surgical Oncology	12
58956	Bilateral salpingo-oopho	91	Surgical Oncology	12
60254	Thyroidectomy, total or s	91	Surgical Oncology	12
41150	Glossectomy; composite	91	Surgical Oncology	11
43501	Gastrotomy; with suture	91	Surgical Oncology	11
44111	Excision of one or more	91	Surgical Oncology	11
44340	Revision of colostomy; s	91	Surgical Oncology	11
44700	Exclusion of small intest	91	Surgical Oncology	11
48554	Transplantation of pancr	91	Surgical Oncology	11
49550	Repair initial femoral he	91	Surgical Oncology	11
50547	Laparoscopy, surgical; c	91	Surgical Oncology	11
57240	Anterior colporrhaphy, r	91	Surgical Oncology	11
69150	Radical excision externa	91	Surgical Oncology	11
15731	Forehead flap with prese	91	Surgical Oncology	11
15430	Acellular xenograft imple	91	Surgical Oncology	11
58552	Laparoscopy, surgical, v	91	Surgical Oncology	10

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21600	Excision of rib, partial	91	Surgical Oncology	10
26115	Excision, tumor or vascul	91	Surgical Oncology	10
27603	Incision and drainage, le	91	Surgical Oncology	10
35011	Direct repair of aneurysm	91	Surgical Oncology	10
35013	Direct repair of aneurysm	91	Surgical Oncology	10
35251	Repair blood vessel with	91	Surgical Oncology	10
43620	Gastrectomy, total; with	91	Surgical Oncology	10
44615	Intestinal stricturoplasty	91	Surgical Oncology	10
44661	Closure of enterovesical	91	Surgical Oncology	10
49521	Repair recurrent inguina	91	Surgical Oncology	10
51555	Cystectomy, partial; com	91	Surgical Oncology	10
58180	Supracervical abdomina	91	Surgical Oncology	10
58262	Vaginal hysterectomy, fo	91	Surgical Oncology	10
61793	Stereotactic radiosurger	91	Surgical Oncology	10
49255	Omentectomy, epiploect	91	Surgical Oncology	10
15574	Formation of direct or tu	91	Surgical Oncology	9
19371	Periprosthetic capsulect	91	Surgical Oncology	9
21925	Biopsy, soft tissue of ba	91	Surgical Oncology	9
33405	Replacement, aortic valv	91	Surgical Oncology	9
39561	Resection, diaphragm; v	91	Surgical Oncology	9
40520	Excision of lip; V-excisio	91	Surgical Oncology	9
41135	Glossectomy; partial, wi	91	Surgical Oncology	9
43622	Gastrectomy, total; with	91	Surgical Oncology	9
44800	Excision of Meckel's div	91	Surgical Oncology	9
48155	Pancreatectomy, total	91	Surgical Oncology	9
49425	Insertion of peritoneal-ve	91	Surgical Oncology	9
49590	Repair spigelian hernia	91	Surgical Oncology	9
57260	Combined anteroposteri	91	Surgical Oncology	9
57520	Conization of cervix, wit	91	Surgical Oncology	9
58240	Pelvic exenteration for g	91	Surgical Oncology	9
58260	Vaginal hysterectomy, fo	91	Surgical Oncology	9
64708	Neuroplasty, major perip	91	Surgical Oncology	9
15130	Dermal autograft, trunk,	91	Surgical Oncology	8
15600	Delay of flap or sectionir	91	Surgical Oncology	8
26117	Radical resection of tum	91	Surgical Oncology	8
32220	Decortication, pulmonar	91	Surgical Oncology	8
33430	Replacement, mitral valv	91	Surgical Oncology	8
35800	Exploration for postoper	91	Surgical Oncology	8
36831	Thrombectomy, open, a	91	Surgical Oncology	8
40530	Resection of lip, more th	91	Surgical Oncology	8
41116	Excision, lesion of floor	91	Surgical Oncology	8
42120	Resection of palate or e	91	Surgical Oncology	8
43324	Esophagogastric fundop	91	Surgical Oncology	8
44650	Closure of enteroenteric	91	Surgical Oncology	8
44820	Excision of lesion of me	91	Surgical Oncology	8
48148	Excision of ampulla of V	91	Surgical Oncology	8
48548	Pancreaticojejunostomy	91	Surgical Oncology	8
49040	Drainage of subdiaphrag	91	Surgical Oncology	8
69120	Excision external ear; co	91	Surgical Oncology	8
15175	Acellular dermal replace	91	Surgical Oncology	8
58958	Resection (tumor debulk	91	Surgical Oncology	7
15936	Excision, sacral pressur	91	Surgical Oncology	7

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19324	Mammoplasty, augment	91	Surgical Oncology	7
19328	Removal of intact mamr	91	Surgical Oncology	7
21244	Reconstruction of mand	91	Surgical Oncology	7
28003	Incision and drainage be	91	Surgical Oncology	7
28805	Amputation, foot; trans	91	Surgical Oncology	7
31360	Laryngectomy; total, wit	91	Surgical Oncology	7
32484	Removal of lung, other t	91	Surgical Oncology	7
32663	Thoracoscopy, surgical;	91	Surgical Oncology	7
33207	Insertion or replacement	91	Surgical Oncology	7
33426	Valvuloplasty, mitral valv	91	Surgical Oncology	7
35121	Direct repair of aneurysr	91	Surgical Oncology	7
38115	Repair of ruptured splee	91	Surgical Oncology	7
39010	Mediastinotomy with exp	91	Surgical Oncology	7
39220	Excision of mediastinal t	91	Surgical Oncology	7
40500	Vermilionectomy (lip sha	91	Surgical Oncology	7
42426	Excision of parotid tumo	91	Surgical Oncology	7
43500	Gastrotomy; with explor	91	Surgical Oncology	7
44025	Colotomy, for exploratio	91	Surgical Oncology	7
44202	Laparoscopy, surgical; e	91	Surgical Oncology	7
44314	Revision of ileostomy; co	91	Surgical Oncology	7
45020	Incision and drainage of	91	Surgical Oncology	7
45123	Proctectomy, partial, wit	91	Surgical Oncology	7
46250	Hemorrhoidectomy, exte	91	Surgical Oncology	7
46270	Surgical treatment of an	91	Surgical Oncology	7
47564	Laparoscopy, surgical; c	91	Surgical Oncology	7
47612	Cholecystectomy with ex	91	Surgical Oncology	7
48146	Pancreatectomy, distal,	91	Surgical Oncology	7
48152	Pancreatectomy, proxim	91	Surgical Oncology	7
50205	Renal biopsy; by surgica	91	Surgical Oncology	7
55520	Excision of lesion of spe	91	Surgical Oncology	7
56631	Vulvectomy, radical, par	91	Surgical Oncology	7
57107	Vaginectomy, partial ren	91	Surgical Oncology	7
61885	Insertion or replacement	91	Surgical Oncology	7
15732	Muscle, myocutaneous,	91	Surgical Oncology	6
15200	Full thickness graft, free	91	Surgical Oncology	6
19112	Excision of lactiferous d	91	Surgical Oncology	6
19306	Mastectomy, radical, inc	91	Surgical Oncology	6
19330	Removal of mammary ir	91	Surgical Oncology	6
19366	Breast reconstruction wi	91	Surgical Oncology	6
19370	Open periprosthetic cap	91	Surgical Oncology	6
21044	Excision of malignant tu	91	Surgical Oncology	6
21045	Excision of malignant tu	91	Surgical Oncology	6
21620	Ostectomy of sternum, p	91	Surgical Oncology	6
27881	Amputation, leg, through	91	Surgical Oncology	6
32100	Thoracotomy, major; wit	91	Surgical Oncology	6
32310	Pleurectomy, parietal (se	91	Surgical Oncology	6
32440	Removal of lung, total p	91	Surgical Oncology	6
34502	Reconstruction of vena c	91	Surgical Oncology	6
39501	Repair, laceration of dia	91	Surgical Oncology	6
42425	Excision of parotid tumo	91	Surgical Oncology	6
43130	Diverticulectomy of hypc	91	Surgical Oncology	6
44147	Colectomy, partial; abdo	91	Surgical Oncology	6

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46200	Fissulectomy, with or wi	91	Surgical Oncology	6
47135	Liver allotransplantation	91	Surgical Oncology	6
47720	Cholecystoenterostomy;	91	Surgical Oncology	6
48520	Internal anastomosis of	91	Surgical Oncology	6
50370	Removal of transplanted	91	Surgical Oncology	6
51840	Anterior vesicourethrope	91	Surgical Oncology	6
57265	Combined anteroposteri	91	Surgical Oncology	6
57282	Colpopexy, vaginal; extr	91	Surgical Oncology	6
58943	Oophorectomy, partial o	91	Surgical Oncology	6
77762	Intracavitary radiation sc	91	Surgical Oncology	6
43845	Gastric restrictive proce	91	Surgical Oncology	5
11970	Replacement of tissue e	91	Surgical Oncology	5
15110	Epidermal autograft, tru	91	Surgical Oncology	5
15756	Free muscle or myocuta	91	Surgical Oncology	5
15757	Free skin flap with micro	91	Surgical Oncology	5
23210	Radical resection for tur	91	Surgical Oncology	5
24900	Amputation, arm throug	91	Surgical Oncology	5
27041	Biopsy, soft tissue of pe	91	Surgical Oncology	5
27295	Disarticulation of hip	91	Surgical Oncology	5
27596	Amputation, thigh, throu	91	Surgical Oncology	5
28043	Excision, tumor, foot; su	91	Surgical Oncology	5
28045	Excision, tumor, foot; de	91	Surgical Oncology	5
32651	Thoracoscopy, surgical;	91	Surgical Oncology	5
33534	Coronary artery bypass,	91	Surgical Oncology	5
35566	Bypass graft, with vein; t	91	Surgical Oncology	5
35656	Bypass graft, with other	91	Surgical Oncology	5
35761	Exploration (not followe	91	Surgical Oncology	5
35860	Exploration for postoper	91	Surgical Oncology	5
40525	Excision of lip; full thickr	91	Surgical Oncology	5
41112	Excision of lesion of ton	91	Surgical Oncology	5
41153	Glossectomy; composite	91	Surgical Oncology	5
44206	Laparoscopy, surgical; c	91	Surgical Oncology	5
44312	Revision of ileostomy; si	91	Surgical Oncology	5
46060	Incision and drainage of	91	Surgical Oncology	5
46288	Closure of anal fistula w	91	Surgical Oncology	5
47712	Excision of bile duct tum	91	Surgical Oncology	5
47721	Cholecystoenterostomy;	91	Surgical Oncology	5
49651	Laparoscopy, surgical; r	91	Surgical Oncology	5
51597	Pelvic exenteration, com	91	Surgical Oncology	5
54520	Orchiectomy, simple (inc	91	Surgical Oncology	5
56632	Vulvectomy, radical, par	91	Surgical Oncology	5
56637	Vulvectomy, radical, cor	91	Surgical Oncology	5
57109	Vaginectomy, partial ren	91	Surgical Oncology	5
57280	Colpopexy, abdominal a	91	Surgical Oncology	5
60505	Parathyroidectomy or ex	91	Surgical Oncology	5
64713	Neuroplasty, major perip	91	Surgical Oncology	5
43888	Gastric restrictive proce	91	Surgical Oncology	5
15830	Excision, excessive skin	91	Surgical Oncology	5
36870	Thrombectomy, percuta	91	Surgical Oncology	5
15170	Acellular dermal replace	91	Surgical Oncology	4
15300	Allograft skin for tempor	91	Surgical Oncology	4
15620	Delay of flap or sectionir	91	Surgical Oncology	4

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15736	Muscle, myocutaneous,	91	Surgical Oncology	4
15956	Excision, trochanteric pr	91	Surgical Oncology	4
19350	Nipple/areola reconstruc	91	Surgical Oncology	4
19380	Revision of reconstructe	91	Surgical Oncology	4
20955	Bone graft with microvas	91	Surgical Oncology	4
21025	Excision of bone (eg, for	91	Surgical Oncology	4
26952	Amputation, finger or thu	91	Surgical Oncology	4
27071	Partial excision (crateriz	91	Surgical Oncology	4
27236	Open treatment of femo	91	Surgical Oncology	4
27365	Radical resection of tum	91	Surgical Oncology	4
28120	Partial excision (crateriz	91	Surgical Oncology	4
28126	Resection, partial or con	91	Surgical Oncology	4
31365	Laryngectomy; total, with	91	Surgical Oncology	4
31588	Laryngoplasty, not other	91	Surgical Oncology	4
31610	Tracheostomy, fenestra	91	Surgical Oncology	4
31611	Construction of tracheoe	91	Surgical Oncology	4
31613	Tracheostoma revision;	91	Surgical Oncology	4
32095	Thoracotomy, limited, fo	91	Surgical Oncology	4
32124	Thoracotomy, major; wit	91	Surgical Oncology	4
32482	Removal of lung, other t	91	Surgical Oncology	4
32652	Thoracoscopy, surgical;	91	Surgical Oncology	4
33025	Creation of pericardial w	91	Surgical Oncology	4
33233	Removal of permanent p	91	Surgical Oncology	4
33535	Coronary artery bypass,	91	Surgical Oncology	4
35201	Repair blood vessel, dire	91	Surgical Oncology	4
35721	Exploration (not followe	91	Surgical Oncology	4
35820	Exploration for postoper	91	Surgical Oncology	4
40816	Excision of lesion of mu	91	Surgical Oncology	4
41874	Alveoloplasty, each qua	91	Surgical Oncology	4
42821	Tonsillectomy and aden	91	Surgical Oncology	4
42890	Limited pharyngectomy	91	Surgical Oncology	4
43320	Esophagogastrostomy (	91	Surgical Oncology	4
43634	Gastrectomy, partial, dis	91	Surgical Oncology	4
44210	Laparoscopy, surgical; c	91	Surgical Oncology	4
44900	Incision and drainage of	91	Surgical Oncology	4
45160	Excision of rectal tumor	91	Surgical Oncology	4
45562	Exploration, repair, and	91	Surgical Oncology	4
46275	Surgical treatment of an	91	Surgical Oncology	4
47015	Laparotomy, with aspira	91	Surgical Oncology	4
47350	Management of liver he	91	Surgical Oncology	4
47361	Management of liver he	91	Surgical Oncology	4
47425	Choledochotomy or cho	91	Surgical Oncology	4
48145	Pancreatectomy, distal s	91	Surgical Oncology	4
48540	Internal anastomosis of	91	Surgical Oncology	4
51595	Cystectomy, complete, v	91	Surgical Oncology	4
55040	Excision of hydrocele; u	91	Surgical Oncology	4
57250	Posterior colporrhaphy,	91	Surgical Oncology	4
15135	Dermal autograft, face, s	91	Surgical Oncology	4
32504	Resection of apical lung	91	Surgical Oncology	4
11450	Excision of skin and sub	91	Surgical Oncology	3
15335	Acellular dermal allograf	91	Surgical Oncology	3
15839	Excision, excessive skin	91	Surgical Oncology	3

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15937	Excision, sacral pressur	91	Surgical Oncology	3
20680	Removal of implant; dee	91	Surgical Oncology	3
21034	Excision of malignant tu	91	Surgical Oncology	3
24066	Biopsy, soft tissue of up	91	Surgical Oncology	3
25111	Excision of ganglion, wr	91	Surgical Oncology	3
26116	Excision, tumor or vascu	91	Surgical Oncology	3
26951	Amputation, finger or th	91	Surgical Oncology	3
26992	Incision, bone cortex, pe	91	Surgical Oncology	3
27075	Radical resection of tum	91	Surgical Oncology	3
27080	Coccygectomy, primary	91	Surgical Oncology	3
27245	Treatment of intertrocha	91	Surgical Oncology	3
27882	Amputation, leg, through	91	Surgical Oncology	3
28111	Ostectomy, complete ex	91	Surgical Oncology	3
30150	Rhinectomy; partial	91	Surgical Oncology	3
32120	Thoracotomy, major; for	91	Surgical Oncology	3
32320	Decortication and pariet	91	Surgical Oncology	3
33213	Insertion or replacement	91	Surgical Oncology	3
34151	Embolectomy or thromb	91	Surgical Oncology	3
35226	Repair blood vessel, dire	91	Surgical Oncology	3
35355	Thromboendarterectomy	91	Surgical Oncology	3
35556	Bypass graft, with vein; t	91	Surgical Oncology	3
35741	Exploration (not followe	91	Surgical Oncology	3
36818	Arteriovenous anastomc	91	Surgical Oncology	3
36825	Creation of arteriovenou	91	Surgical Oncology	3
39000	Mediastinotomy with exp	91	Surgical Oncology	3
40510	Excision of lip; transvers	91	Surgical Oncology	3
40814	Excision of lesion of mu	91	Surgical Oncology	3
42815	Excision branchial cleft c	91	Surgical Oncology	3
42842	Radical resection of tons	91	Surgical Oncology	3
42953	Pharyngoesophageal re	91	Surgical Oncology	3
42955	Pharyngostomy (fistuliza	91	Surgical Oncology	3
43415	Suture of esophageal we	91	Surgical Oncology	3
44021	Enterotomy, small intest	91	Surgical Oncology	3
45108	Anorectal myomectomy	91	Surgical Oncology	3
45113	Proctectomy, partial, wit	91	Surgical Oncology	3
45190	Destruction of rectal tum	91	Surgical Oncology	3
46280	Surgical treatment of an	91	Surgical Oncology	3
47400	Hepaticotomy or hepatic	91	Surgical Oncology	3
47460	Transduodenal sphincte	91	Surgical Oncology	3
47480	Cholecystotomy or chole	91	Surgical Oncology	3
47490	Percutaneous cholecyst	91	Surgical Oncology	3
47740	Cholecystoenterostomy;	91	Surgical Oncology	3
48000	Placement of drains, pe	91	Surgical Oncology	3
48154	Pancreatectomy, proxim	91	Surgical Oncology	3
49557	Repair recurrent femora	91	Surgical Oncology	3
49570	Repair epigastric hernia	91	Surgical Oncology	3
50234	Nephrectomy with total u	91	Surgical Oncology	3
50650	Ureterectomy, with blad	91	Surgical Oncology	3
50780	Ureteroneocystostomy;	91	Surgical Oncology	3
51045	Cystotomy, with insertio	91	Surgical Oncology	3
53220	Excision or fulguration o	91	Surgical Oncology	3
55150	Resection of scrotum	91	Surgical Oncology	3

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55821	Prostatectomy (including	91	Surgical Oncology	3
57110	Vaginectomy, complete	91	Surgical Oncology	3
57270	Repair of enterocele, ab	91	Surgical Oncology	3
57305	Closure of rectovaginal t	91	Surgical Oncology	3
57540	Excision of cervical stum	91	Surgical Oncology	3
58140	Myomectomy, excision o	91	Surgical Oncology	3
58660	Laparoscopy, surgical; v	91	Surgical Oncology	3
58700	Salpingectomy, complet	91	Surgical Oncology	3
62362	Implantation or replacen	91	Surgical Oncology	3
64712	Neuroplasty, major perip	91	Surgical Oncology	3
64790	Excision of neurofibroma	91	Surgical Oncology	3
67912	Correction of lagophthal	91	Surgical Oncology	3
77763	Intracavitary radiation s	91	Surgical Oncology	3
15150	Tissue cultured epiderm	91	Surgical Oncology	3
35216	Repair blood vessel, dire	91	Surgical Oncology	3
43886	Gastric restrictive proce	91	Surgical Oncology	3
43887	Gastric restrictive proce	91	Surgical Oncology	3
43772	Laparoscopy, surgical, g	91	Surgical Oncology	3
43773	Laparoscopy, surgical, g	91	Surgical Oncology	3
15155	Tissue cultured epiderm	91	Surgical Oncology	3
43774	Laparoscopy, surgical, g	91	Surgical Oncology	2
45397	Laparoscopy, surgical; p	91	Surgical Oncology	2
57295	Revision (including remc	91	Surgical Oncology	2
11451	Excision of skin and sub	91	Surgical Oncology	2
11971	Removal of tissue expan	91	Surgical Oncology	2
15320	Allograft skin for tempor	91	Surgical Oncology	2
15360	Tissue cultured allogene	91	Surgical Oncology	2
15576	Formation of direct or tu	91	Surgical Oncology	2
15630	Delay of flap or sectionir	91	Surgical Oncology	2
19355	Correction of inverted ni	91	Surgical Oncology	2
19361	Breast reconstruction wi	91	Surgical Oncology	2
19367	Breast reconstruction wi	91	Surgical Oncology	2
21030	Excision of benign tumo	91	Surgical Oncology	2
21040	Excision of benign tumo	91	Surgical Oncology	2
21193	Reconstruction of mand	91	Surgical Oncology	2
21435	Open treatment of cranio	91	Surgical Oncology	2
21454	Open treatment of mand	91	Surgical Oncology	2
21630	Radical resection of ster	91	Surgical Oncology	2
22015	Incision and drainage, o	91	Surgical Oncology	2
23066	Biopsy, soft tissue of sh	91	Surgical Oncology	2
23120	Claviclectomy; partial	91	Surgical Oncology	2
23220	Radical resection of bon	91	Surgical Oncology	2
23222	Radical resection of bon	91	Surgical Oncology	2
23900	Interthoracoscapular am	91	Surgical Oncology	2
24150	Radical resection for tur	91	Surgical Oncology	2
26910	Amputation, metacarpal	91	Surgical Oncology	2
27187	Prophylactic treatment (	91	Surgical Oncology	2
27290	Interpelviabdominal amp	91	Surgical Oncology	2
27360	Partial excision (crateriz	91	Surgical Oncology	2
27445	Arthroplasty, knee, hing	91	Surgical Oncology	2
27495	Prophylactic treatment (91	Surgical Oncology	2
27591	Amputation, thigh, throu	91	Surgical Oncology	2

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27602	Decompression fasciotomy	91	Surgical Oncology	2
27604	Incision and drainage, leg	91	Surgical Oncology	2
28005	Incision, bone cortex (eg,	91	Surgical Oncology	2
28008	Fasciotomy, foot and/or	91	Surgical Oncology	2
28112	Osteotomy, complete ex	91	Surgical Oncology	2
30117	Excision or destruction (	91	Surgical Oncology	2
30130	Excision inferior turbinat	91	Surgical Oncology	2
31040	Pterygomaxillary fossa s	91	Surgical Oncology	2
31375	Partial laryngectomy (he	91	Surgical Oncology	2
32486	Removal of lung, other t	91	Surgical Oncology	2
32900	Resection of ribs, extrap	91	Surgical Oncology	2
33512	Coronary artery bypass,	91	Surgical Oncology	2
34201	Embolectomy or thromb	91	Surgical Oncology	2
35082	Direct repair of aneurysm	91	Surgical Oncology	2
35206	Repair blood vessel, dire	91	Surgical Oncology	2
35281	Repair blood vessel with	91	Surgical Oncology	2
35371	Thromboendarterectomy	91	Surgical Oncology	2
35661	Bypass graft, with other	91	Surgical Oncology	2
36833	Revision, open, arteriove	91	Surgical Oncology	2
36838	Distal revascularization	91	Surgical Oncology	2
37565	Ligation, internal jugular	91	Surgical Oncology	2
38101	Splenectomy; partial (se	91	Surgical Oncology	2
38381	Suture and/or ligation of	91	Surgical Oncology	2
38530	Biopsy or excision of lym	91	Surgical Oncology	2
39520	Repair, diaphragmatic h	91	Surgical Oncology	2
41130	Glossectomy; hemigloss	91	Surgical Oncology	2
42500	Plastic repair of salivary	91	Surgical Oncology	2
42845	Radical resection of tons	91	Surgical Oncology	2
42892	Resection of lateral phar	91	Surgical Oncology	2
43310	Esophagoplasty (plastic	91	Surgical Oncology	2
43644	Laparoscopy, surgical, g	91	Surgical Oncology	2
43846	Gastric restrictive proce	91	Surgical Oncology	2
44055	Correction of malrotation	91	Surgical Oncology	2
45121	Proctectomy, complete	91	Surgical Oncology	2
46262	Hemorrhoidectomy, inte	91	Surgical Oncology	2
46700	Anoplasty, plastic opera	91	Surgical Oncology	2
46934	Destruction of hemorrh	91	Surgical Oncology	2
46946	Ligation of internal hemo	91	Surgical Oncology	2
46947	Hemorrhoidopexy (eg, fo	91	Surgical Oncology	2
47300	Marsupialization of cyst	91	Surgical Oncology	2
47360	Management of liver he	91	Surgical Oncology	2
47362	Management of liver he	91	Surgical Oncology	2
47511	Introduction of percutane	91	Surgical Oncology	2
47620	Cholecystectomy with ex	91	Surgical Oncology	2
47741	Cholecystoenterostomy;	91	Surgical Oncology	2
48001	Placement of drains, pe	91	Surgical Oncology	2
48556	Removal of transplanted	91	Surgical Oncology	2
49426	Revision of peritoneal-ve	91	Surgical Oncology	2
49572	Repair epigastric hernia	91	Surgical Oncology	2
50546	Laparoscopy, surgical; r	91	Surgical Oncology	2
50728	Revision of urinary-cuta	91	Surgical Oncology	2
51865	Cystorrhaphy, suture of	91	Surgical Oncology	2

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55060	Repair of tunica vaginalis	91	Surgical Oncology	2
55500	Excision of hydrocele of	91	Surgical Oncology	2
55831	Prostatectomy (including	91	Surgical Oncology	2
56625	Vulvectomy simple; com	91	Surgical Oncology	2
57010	Colpotomy; with drainag	91	Surgical Oncology	2
57111	Vaginectomy, complete	91	Surgical Oncology	2
57200	Colporrhaphy, suture of	91	Surgical Oncology	2
57268	Repair of enterocele, va	91	Surgical Oncology	2
57283	Colpopexy, vaginal; intra	91	Surgical Oncology	2
57522	Conization of cervix, with	91	Surgical Oncology	2
57530	Trachelectomy (cerviced	91	Surgical Oncology	2
58152	Total abdominal hyster	91	Surgical Oncology	2
58920	Wedge resection or bise	91	Surgical Oncology	2
60270	Thyroidectomy, including	91	Surgical Oncology	2
60600	Excision of carotid body	91	Surgical Oncology	2
61580	Craniofacial approach to	91	Surgical Oncology	2
62192	Creation of shunt; subar	91	Surgical Oncology	2
63090	Vertebral corpectomy (v	91	Surgical Oncology	2
63278	Laminectomy for biopsy	91	Surgical Oncology	2
63303	Vertebral corpectomy (v	91	Surgical Oncology	2
64786	Excision of neuroma; sc	91	Surgical Oncology	2
64788	Excision of neurofibroma	91	Surgical Oncology	2
65110	Exenteration of orbit (do	91	Surgical Oncology	2
67882	Construction of intermar	91	Surgical Oncology	2
67950	Canthoplasty (reconstru	91	Surgical Oncology	2
69535	Resection temporal bon	91	Surgical Oncology	2
45550	Proctopexy (eg, for prol	91	Surgical Oncology	2
43771	Laparoscopy, surgical, c	91	Surgical Oncology	2
45119	Proctectomy, combined	91	Surgical Oncology	2
58548	Laparoscopy, surgical, v	91	Surgical Oncology	2
58550	Laparoscopy, surgical, v	91	Surgical Oncology	2
58554	Laparoscopy, surgical, v	91	Surgical Oncology	1
38780	Retroperitoneal transab	91	Surgical Oncology	1
33254	Operative tissue ablatio	91	Surgical Oncology	1
45402	Laparoscopy, surgical; p	91	Surgical Oncology	1
32503	Resection of apical lung	91	Surgical Oncology	1
33256	Operative tissue ablatio	91	Surgical Oncology	1
11463	Excision of skin and sub	91	Surgical Oncology	1
11470	Excision of skin and sub	91	Surgical Oncology	1
11772	Excision of pilonidal cys	91	Surgical Oncology	1
15650	Transfer, intermediate, c	91	Surgical Oncology	1
15760	Graft; composite (eg, ful	91	Surgical Oncology	1
15940	Excision, ischial pressur	91	Surgical Oncology	1
19318	Reduction mammoplast	91	Surgical Oncology	1
19325	Mammoplasty, augment	91	Surgical Oncology	1
19364	Breast reconstruction wi	91	Surgical Oncology	1
19369	Breast reconstruction wi	91	Surgical Oncology	1
20694	Removal, under anesthe	91	Surgical Oncology	1
21049	Excision of benign tumo	91	Surgical Oncology	1
21082	Impression and custom	91	Surgical Oncology	1
21125	Augmentation, mandibu	91	Surgical Oncology	1
21210	Graft, bone; nasal, maxi	91	Surgical Oncology	1

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21330	Open treatment of nasal	91	Surgical Oncology	1
21407	Open treatment of fracture	91	Surgical Oncology	1
21470	Open treatment of compound	91	Surgical Oncology	1
21502	Incision and drainage, deep	91	Surgical Oncology	1
21610	Costotransversectomy (for	91	Surgical Oncology	1
21627	Sternal debridement	91	Surgical Oncology	1
21805	Open treatment of rib fracture	91	Surgical Oncology	1
22010	Incision and drainage, of abscess	91	Surgical Oncology	1
22554	Arthrodesis, anterior intervertebral	91	Surgical Oncology	1
22600	Arthrodesis, posterior intervertebral	91	Surgical Oncology	1
23105	Arthrotomy; glenohumeral	91	Surgical Oncology	1
23200	Radical resection for tumor	91	Surgical Oncology	1
23491	Prophylactic treatment (for	91	Surgical Oncology	1
23600	Closed treatment of proximal humerus	91	Surgical Oncology	1
23650	Closed treatment of shoulder	91	Surgical Oncology	1
24498	Prophylactic treatment (for	91	Surgical Oncology	1
24930	Amputation, arm through elbow	91	Surgical Oncology	1
25066	Biopsy, soft tissue of forearm	91	Surgical Oncology	1
25605	Closed treatment of distal radius	91	Surgical Oncology	1
25927	Transmetacarpal amputation	91	Surgical Oncology	1
26605	Closed treatment of metacarpal	91	Surgical Oncology	1
26750	Closed treatment of distal radius	91	Surgical Oncology	1
27054	Arthrotomy with synovectomy	91	Surgical Oncology	1
27070	Partial excision (craterization)	91	Surgical Oncology	1
27130	Arthroplasty, acetabular	91	Surgical Oncology	1
27227	Open treatment of acetabulum	91	Surgical Oncology	1
27228	Open treatment of acetabulum	91	Surgical Oncology	1
27303	Incision, deep, with open	91	Surgical Oncology	1
27305	Fasciotomy, iliotibial (ter	91	Surgical Oncology	1
27334	Arthrotomy, with synovectomy	91	Surgical Oncology	1
27430	Quadricepsplasty (eg, B	91	Surgical Oncology	1
27470	Repair, nonunion or malunion	91	Surgical Oncology	1
27499	Decompression fasciotomy	91	Surgical Oncology	1
27530	Closed treatment of tibia	91	Surgical Oncology	1
27592	Amputation, thigh, through	91	Surgical Oncology	1
27600	Decompression fasciotomy	91	Surgical Oncology	1
27607	Incision (eg, osteomyelitis)	91	Surgical Oncology	1
27638	Excision or curettage of	91	Surgical Oncology	1
27646	Radical resection of tumor	91	Surgical Oncology	1
27647	Radical resection of tumor	91	Surgical Oncology	1
27658	Repair, flexor tendon, leg	91	Surgical Oncology	1
27886	Amputation, leg, through	91	Surgical Oncology	1
27888	Amputation, ankle, through	91	Surgical Oncology	1
27892	Decompression fasciotomy	91	Surgical Oncology	1
28113	Ostectomy, complete ex	91	Surgical Oncology	1
28150	Phalangectomy, toe, ear	91	Surgical Oncology	1
28490	Closed treatment of fracture	91	Surgical Oncology	1
28760	Arthrodesis, with extens	91	Surgical Oncology	1
30160	Rhinectomy; total	91	Surgical Oncology	1
30520	Septoplasty or submucosa	91	Surgical Oncology	1
31030	Sinusotomy, maxillary (a	91	Surgical Oncology	1
31084	Sinusotomy frontal; oblit	91	Surgical Oncology	1

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31200	Ethmoidectomy; intranasal	91	Surgical Oncology	1
31205	Ethmoidectomy; extranasal	91	Surgical Oncology	1
31230	Maxillectomy; with orbital	91	Surgical Oncology	1
31390	Pharyngolaryngectomy, partial	91	Surgical Oncology	1
31395	Pharyngolaryngectomy, total	91	Surgical Oncology	1
31614	Tracheostoma revision; open	91	Surgical Oncology	1
31750	Tracheoplasty; cervical	91	Surgical Oncology	1
31820	Surgical closure tracheostoma	91	Surgical Oncology	1
32110	Thoracotomy, major; with	91	Surgical Oncology	1
32140	Thoracotomy, major; without	91	Surgical Oncology	1
32402	Biopsy, pleura; open	91	Surgical Oncology	1
32488	Removal of lung, other than	91	Surgical Oncology	1
32655	Thoracoscopy, surgical; with	91	Surgical Oncology	1
32659	Thoracoscopy, surgical; without	91	Surgical Oncology	1
32815	Open closure of major bronchus	91	Surgical Oncology	1
32820	Major reconstruction, chest	91	Surgical Oncology	1
33050	Excision of pericardial cyst	91	Surgical Oncology	1
33206	Insertion or replacement of	91	Surgical Oncology	1
33215	Repositioning of previously	91	Surgical Oncology	1
33217	Insertion of a transvenous	91	Surgical Oncology	1
33222	Revision or relocation of	91	Surgical Oncology	1
33235	Removal of transvenous	91	Surgical Oncology	1
33510	Coronary artery bypass, with	91	Surgical Oncology	1
34401	Thrombectomy, direct or	91	Surgical Oncology	1
35021	Direct repair of aneurysm	91	Surgical Oncology	1
35081	Direct repair of aneurysm	91	Surgical Oncology	1
35091	Direct repair of aneurysm	91	Surgical Oncology	1
35102	Direct repair of aneurysm	91	Surgical Oncology	1
35103	Direct repair of aneurysm	91	Surgical Oncology	1
35131	Direct repair of aneurysm	91	Surgical Oncology	1
35141	Direct repair of aneurysm	91	Surgical Oncology	1
35341	Thromboendarterectomy	91	Surgical Oncology	1
35351	Thromboendarterectomy	91	Surgical Oncology	1
35372	Thromboendarterectomy	91	Surgical Oncology	1
35509	Bypass graft, with vein; with	91	Surgical Oncology	1
35565	Bypass graft, with vein; with	91	Surgical Oncology	1
35571	Bypass graft, with vein; with	91	Surgical Oncology	1
35585	In-situ vein bypass; femoral	91	Surgical Oncology	1
35646	Bypass graft, with other	91	Surgical Oncology	1
35651	Bypass graft, with other	91	Surgical Oncology	1
35663	Bypass graft, with other	91	Surgical Oncology	1
35666	Bypass graft, with other	91	Surgical Oncology	1
35875	Thrombectomy of arterial	91	Surgical Oncology	1
35876	Thrombectomy of arterial	91	Surgical Oncology	1
37605	Ligation; internal or common	91	Surgical Oncology	1
37618	Ligation, major artery (esophagus)	91	Surgical Oncology	1
37785	Ligation, division, and/or	91	Surgical Oncology	1
38380	Suture and/or ligation of	91	Surgical Oncology	1
38555	Excision of cystic hygroma	91	Surgical Oncology	1
39530	Repair, diaphragmatic hernia	91	Surgical Oncology	1
39541	Repair, diaphragmatic hernia	91	Surgical Oncology	1
39545	Imbrication of diaphragm	91	Surgical Oncology	1

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40527	Excision of lip; full thickr	91	Surgical Oncology	1
40650	Repair lip, full thickness	91	Surgical Oncology	1
40761	Plastic repair of cleft lip/	91	Surgical Oncology	1
40818	Excision of mucosa of v	91	Surgical Oncology	1
41009	Intraoral incision and dra	91	Surgical Oncology	1
41113	Excision of lesion of ton	91	Surgical Oncology	1
41140	Glossectomy; complete	91	Surgical Oncology	1
41145	Glossectomy; complete	91	Surgical Oncology	1
41827	Excision of lesion or tum	91	Surgical Oncology	1
42200	Palatoplasty for cleft pal	91	Surgical Oncology	1
42408	Excision of sublingual sa	91	Surgical Oncology	1
42450	Excision of sublingual gl	91	Surgical Oncology	1
42600	Closure salivary fistula	91	Surgical Oncology	1
42826	Tonsillectomy, primary c	91	Surgical Oncology	1
42844	Radical resection of tons	91	Surgical Oncology	1
42950	Pharyngoplasty (plastic	91	Surgical Oncology	1
43030	Cricopharyngeal myotor	91	Surgical Oncology	1
43100	Excision of lesion, esopl	91	Surgical Oncology	1
43101	Excision of lesion, esopl	91	Surgical Oncology	1
43108	Total or near total esoph	91	Surgical Oncology	1
43113	Total or near total esoph	91	Surgical Oncology	1
43116	Partial esophagectomy,	91	Surgical Oncology	1
43118	Partial esophagectomy,	91	Surgical Oncology	1
43123	Partial esophagectomy,	91	Surgical Oncology	1
43305	Esophagoplasty (plastic	91	Surgical Oncology	1
43330	Esophagomyotomy (Hel	91	Surgical Oncology	1
43331	Esophagomyotomy (Hel	91	Surgical Oncology	1
43340	Esophagojejunostomy (v	91	Surgical Oncology	1
43352	Esophagostomy, fistuliz	91	Surgical Oncology	1
43360	Gastrointestinal reconst	91	Surgical Oncology	1
43420	Closure of esophagosto	91	Surgical Oncology	1
43496	Free jejunum transfer w	91	Surgical Oncology	1
43825	Gastrojejunostomy; with	91	Surgical Oncology	1
43848	Revision, open, of gastri	91	Surgical Oncology	1
43880	Closure of gastrocolic fis	91	Surgical Oncology	1
44126	Enterectomy, resection	91	Surgical Oncology	1
44151	Colectomy, total, abdom	91	Surgical Oncology	1
44208	Laparoscopy, surgical; c	91	Surgical Oncology	1
44605	Suture of large intestine	91	Surgical Oncology	1
44850	Suture of mesentery (se	91	Surgical Oncology	1
45000	Transrectal drainage of	91	Surgical Oncology	1
45114	Proctectomy, partial, wit	91	Surgical Oncology	1
45116	Proctectomy, partial, wit	91	Surgical Oncology	1
45130	Excision of rectal procid	91	Surgical Oncology	1
45150	Division of stricture of re	91	Surgical Oncology	1
45400	Laparoscopy, surgical; p	91	Surgical Oncology	1
45500	Proctoplasty; for stenosi	91	Surgical Oncology	1
45541	Proctopexy (eg, for prol	91	Surgical Oncology	1
45563	Exploration, repair, and	91	Surgical Oncology	1
45805	Closure of rectovesical f	91	Surgical Oncology	1
45825	Closure of rectourethral	91	Surgical Oncology	1
46045	Incision and drainage of	91	Surgical Oncology	1

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46258	Hemorrhoidectomy, inte	91	Surgical Oncology	1
46750	Sphincteroplasty, anal, f	91	Surgical Oncology	1
46936	Destruction of hemorrhoid	91	Surgical Oncology	1
46945	Ligation of internal hemo	91	Surgical Oncology	1
47371	Laparoscopy, surgical, a	91	Surgical Oncology	1
47381	Ablation, open, of one o	91	Surgical Oncology	1
47510	Introduction of percutane	91	Surgical Oncology	1
47765	Anastomosis, of intrahep	91	Surgical Oncology	1
47900	Suture of extrahepatic b	91	Surgical Oncology	1
48500	Marsupialization of panc	91	Surgical Oncology	1
48510	External drainage, pseu	91	Surgical Oncology	1
48545	Pancreatorrhaphy for inj	91	Surgical Oncology	1
48547	Duodenal exclusion with	91	Surgical Oncology	1
49540	Repair lumbar hernia	91	Surgical Oncology	1
49555	Repair recurrent femora	91	Surgical Oncology	1
50010	Renal exploration, not n	91	Surgical Oncology	1
50225	Nephrectomy, including	91	Surgical Oncology	1
50240	Nephrectomy, partial	91	Surgical Oncology	1
50250	Ablation, open, one or m	91	Surgical Oncology	1
50365	Renal allotransplantatio	91	Surgical Oncology	1
50525	Closure of nephroviscer	91	Surgical Oncology	1
50545	Laparoscopy, surgical; r	91	Surgical Oncology	1
50605	Ureterotomy for insertio	91	Surgical Oncology	1
50760	Ureteroureterostomy	91	Surgical Oncology	1
50783	Ureteroneocystostomy; v	91	Surgical Oncology	1
50800	Ureteroenterostomy, dire	91	Surgical Oncology	1
50900	Ureterorrhaphy, suture c	91	Surgical Oncology	1
51020	Cystotomy or cystostom	91	Surgical Oncology	1
51530	Cystotomy; for excision	91	Surgical Oncology	1
51590	Cystectomy, complete, v	91	Surgical Oncology	1
51880	Closure of cystostomy (s	91	Surgical Oncology	1
51900	Closure of vesicovagina	91	Surgical Oncology	1
53210	Urethrectomy, total, incl	91	Surgical Oncology	1
53230	Excision of urethral dive	91	Surgical Oncology	1
53445	Insertion of inflatable ure	91	Surgical Oncology	1
54535	Orchiectomy, radical, fo	91	Surgical Oncology	1
55650	Vesiculectomy, any app	91	Surgical Oncology	1
56640	Vulvectomy, radical, cor	91	Surgical Oncology	1
57120	Colpocleisis (Le Fort typ	91	Surgical Oncology	1
57210	Colpoperineorrhaphy, su	91	Surgical Oncology	1
57284	Paravaginal defect repa	91	Surgical Oncology	1
57287	Removal or revision of s	91	Surgical Oncology	1
57291	Construction of artificial	91	Surgical Oncology	1
57300	Closure of rectovaginal f	91	Surgical Oncology	1
57307	Closure of rectovaginal f	91	Surgical Oncology	1
57320	Closure of vesicovagina	91	Surgical Oncology	1
58263	Vaginal hysterectomy, fo	91	Surgical Oncology	1
58270	Vaginal hysterectomy, fo	91	Surgical Oncology	1
58346	Insertion of Heyman cap	91	Surgical Oncology	1
58545	Laparoscopy, surgical, r	91	Surgical Oncology	1
58662	Laparoscopy, surgical; v	91	Surgical Oncology	1
58740	Lysis of adhesions (salp	91	Surgical Oncology	1

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58822	Drainage of ovarian abs	91	Surgical Oncology	1
58925	Ovarian cystectomy, uni	91	Surgical Oncology	1
60212	Partial thyroid lobectomy	91	Surgical Oncology	1
60280	Excision of thyroglossal	91	Surgical Oncology	1
60521	Thymectomy, partial or t	91	Surgical Oncology	1
60522	Thymectomy, partial or t	91	Surgical Oncology	1
61500	Craniectomy; with excisi	91	Surgical Oncology	1
61512	Craniectomy, trephinic	91	Surgical Oncology	1
61575	Transoral approach to s	91	Surgical Oncology	1
61590	Infratemporal pre-auricu	91	Surgical Oncology	1
61600	Resection or excision of	91	Surgical Oncology	1
61605	Resection or excision of	91	Surgical Oncology	1
62223	Creation of shunt; ventri	91	Surgical Oncology	1
62350	Implantation, revision or	91	Surgical Oncology	1
63011	Laminectomy with explo	91	Surgical Oncology	1
63015	Laminectomy with explo	91	Surgical Oncology	1
63047	Laminectomy, facetecto	91	Surgical Oncology	1
63081	Vertebral corpectomy (v	91	Surgical Oncology	1
63102	Vertebral corpectomy (v	91	Surgical Oncology	1
63267	Laminectomy for excisi	91	Surgical Oncology	1
64716	Neuroplasty and/or trans	91	Surgical Oncology	1
64721	Neuroplasty and/or trans	91	Surgical Oncology	1
64722	Decompression; unspec	91	Surgical Oncology	1
64742	Transection or avulsion	91	Surgical Oncology	1
64782	Excision of neuroma; ha	91	Surgical Oncology	1
64792	Excision of neurofibroma	91	Surgical Oncology	1
65091	Evisceration of ocular co	91	Surgical Oncology	1
67412	Orbitotomy without bone	91	Surgical Oncology	1
67450	Orbitotomy with bone fla	91	Surgical Oncology	1
67880	Construction of intermar	91	Surgical Oncology	1
67961	Excision and repair of ey	91	Surgical Oncology	1
69140	Excision exostosis(es), e	91	Surgical Oncology	1
69155	Radical excision externa	91	Surgical Oncology	1
69310	Reconstruction of exterr	91	Surgical Oncology	1
69505	Mastoidectomy; modifie	91	Surgical Oncology	1
35883	Revision, femoral anasto	91	Surgical Oncology	1
35884	Revision, femoral anasto	91	Surgical Oncology	1
44157	Colectomy, total, abdom	91	Surgical Oncology	1
44158	Colectomy, total, abdom	91	Surgical Oncology	1
58542	Laparoscopy, surgical, s	91	Surgical Oncology	1
58544	Laparoscopy, surgical, s	91	Surgical Oncology	1
33255	Operative tissue ablatio	91	Surgical Oncology	0
57296	Revision (including remo	91	Surgical Oncology	0
58541	Laparoscopy, surgical, s	91	Surgical Oncology	0
35302	Thromboendarterectomy	91	Surgical Oncology	0
35303	Thromboendarterectomy	91	Surgical Oncology	0
35304	Thromboendarterectomy	91	Surgical Oncology	0
35305	Thromboendarterectomy	91	Surgical Oncology	0
33265	Endoscopy, surgical; op	91	Surgical Oncology	0
33266	Endoscopy, surgical; op	91	Surgical Oncology	0
33507	Repair of anomalous (eg	91	Surgical Oncology	0
46710	Repair of ileoanal pouch	91	Surgical Oncology	0

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46712	Repair of ileoanal pouch	91	Surgical Oncology	0	31,395
33533	Coronary artery bypass,	33	Thoracic Surgery	47,897	
33405	Replacement, aortic valv	33	Thoracic Surgery	15,881	
35301	Thromboendarterectomy	33	Thoracic Surgery	12,853	
32480	Removal of lung, other t	33	Thoracic Surgery	8,182	
33208	Insertion or replacement	33	Thoracic Surgery	7,827	
33430	Replacement, mitral valv	33	Thoracic Surgery	5,092	
32500	Removal of lung, other t	33	Thoracic Surgery	4,756	
32657	Thoracoscopy, surgical;	33	Thoracic Surgery	4,714	
33534	Coronary artery bypass,	33	Thoracic Surgery	4,627	
33510	Coronary artery bypass,	33	Thoracic Surgery	3,641	
33426	Valvuloplasty, mitral valv	33	Thoracic Surgery	3,560	
32650	Thoracoscopy, surgical;	33	Thoracic Surgery	3,416	
33511	Coronary artery bypass,	33	Thoracic Surgery	3,313	
35820	Exploration for postoper	33	Thoracic Surgery	3,052	
33512	Coronary artery bypass,	33	Thoracic Surgery	2,852	
33233	Removal of permanent p	33	Thoracic Surgery	2,725	
33025	Creation of pericardial w	33	Thoracic Surgery	2,661	
35656	Bypass graft, with other	33	Thoracic Surgery	2,550	
36830	Creation of arteriovenou	33	Thoracic Surgery	2,427	
33213	Insertion or replacement	33	Thoracic Surgery	2,363	
33207	Insertion or replacement	33	Thoracic Surgery	2,206	
33254	Operative tissue ablatio	33	Thoracic Surgery	2,183	
36821	Arteriovenous anastomc	33	Thoracic Surgery	2,168	
37620	Interruption, partial or c	33	Thoracic Surgery	2,155	
33256	Operative tissue ablatio	33	Thoracic Surgery	1,864	
32663	Thoracoscopy, surgical;	33	Thoracic Surgery	1,849	
33427	Valvuloplasty, mitral valv	33	Thoracic Surgery	1,661	
33860	Ascending aorta graft, w	33	Thoracic Surgery	1,592	
32220	Decortication, pulmonar	33	Thoracic Surgery	1,537	
34802	Endovascular repair of il	33	Thoracic Surgery	1,445	
36831	Thrombectomy, open, a	33	Thoracic Surgery	1,433	
33464	Valvuloplasty, tricuspid v	33	Thoracic Surgery	1,386	
32100	Thoracotomy, major; wit	33	Thoracic Surgery	1,347	
33202	Insertion of epicardial el	33	Thoracic Surgery	1,331	
33513	Coronary artery bypass,	33	Thoracic Surgery	1,246	
33641	Repair atrial septal defe	33	Thoracic Surgery	1,220	
47562	Laparoscopy, surgical; c	33	Thoracic Surgery	1,216	
35081	Direct repair of aneurysr	33	Thoracic Surgery	1,090	
34825	Placement of proximal c	33	Thoracic Surgery	1,080	
36833	Revision, open, arteriove	33	Thoracic Surgery	1,067	
36819	Arteriovenous anastomc	33	Thoracic Surgery	1,060	
33410	Replacement, aortic valv	33	Thoracic Surgery	1,018	
33863	Ascending aorta graft, w	33	Thoracic Surgery	978	
35903	Excision of infected graf	33	Thoracic Surgery	940	
33249	Insertion or repositioning	33	Thoracic Surgery	935	
33535	Coronary artery bypass,	33	Thoracic Surgery	933	
32095	Thoracotomy, limited, fo	33	Thoracic Surgery	907	
39010	Mediastinotomy with exp	33	Thoracic Surgery	896	
33212	Insertion or replacement	33	Thoracic Surgery	888	
35371	Thromboendarterectomy	33	Thoracic Surgery	884	
36832	Revision, open, arteriove	33	Thoracic Surgery	881	

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27590	Amputation, thigh, thro	33	Thoracic Surgery	836
32124	Thoracotomy, major; wit	33	Thoracic Surgery	835
32484	Removal of lung, other t	33	Thoracic Surgery	826
21627	Sternal debridement	33	Thoracic Surgery	822
32652	Thoracoscopy, surgical;	33	Thoracic Surgery	822
35556	Bypass graft, with vein; t	33	Thoracic Surgery	819
21750	Closure of median stern	33	Thoracic Surgery	801
34201	Embolectomy or thromb	33	Thoracic Surgery	770
33255	Operative tissue ablatio	33	Thoracic Surgery	746
27880	Amputation, leg, through	33	Thoracic Surgery	693
32440	Removal of lung, total p	33	Thoracic Surgery	690
35661	Bypass graft, with other	33	Thoracic Surgery	671
35646	Bypass graft, with other	33	Thoracic Surgery	662
33241	Subcutaneous removal o	33	Thoracic Surgery	654
49505	Repair initial inguinal he	33	Thoracic Surgery	646
32651	Thoracoscopy, surgical;	33	Thoracic Surgery	640
35566	Bypass graft, with vein; t	33	Thoracic Surgery	621
32482	Removal of lung, other t	33	Thoracic Surgery	605
35226	Repair blood vessel, dire	33	Thoracic Surgery	604
33870	Transverse arch graft, w	33	Thoracic Surgery	589
35141	Direct repair of aneurysr	33	Thoracic Surgery	587
32320	Decortication and pariet	33	Thoracic Surgery	585
47563	Laparoscopy, surgical; c	33	Thoracic Surgery	574
35102	Direct repair of aneurysr	33	Thoracic Surgery	561
20680	Removal of implant; dee	33	Thoracic Surgery	540
49560	Repair initial incisional o	33	Thoracic Surgery	523
43117	Partial esophagectomy,	33	Thoracic Surgery	522
35372	Thromboendarterectomy	33	Thoracic Surgery	519
35860	Exploration for postoper	33	Thoracic Surgery	509
39000	Mediastinotomy with exp	33	Thoracic Surgery	501
32225	Decortication, pulmonar	33	Thoracic Surgery	495
36825	Creation of arteriovenou	33	Thoracic Surgery	485
36818	Arteriovenous anastomc	33	Thoracic Surgery	473
15734	Muscle, myocutaneous,	33	Thoracic Surgery	468
37607	Ligation or banding of ar	33	Thoracic Surgery	467
33222	Revision or relocation of	33	Thoracic Surgery	439
33411	Replacement, aortic valv	33	Thoracic Surgery	435
32656	Thoracoscopy, surgical;	33	Thoracic Surgery	413
33240	Insertion of single or dua	33	Thoracic Surgery	405
33463	Valvuloplasty, tricuspid v	33	Thoracic Surgery	405
32120	Thoracotomy, major; for	33	Thoracic Surgery	401
43107	Total or near total esoph	33	Thoracic Surgery	393
37765	Stab phlebectomy of var	33	Thoracic Surgery	388
33425	Valvuloplasty, mitral valv	33	Thoracic Surgery	387
28810	Amputation, metatarsal,	33	Thoracic Surgery	382
47600	Cholecystectomy;	33	Thoracic Surgery	369
33030	Pericardiectomy, subtota	33	Thoracic Surgery	364
35875	Thrombectomy of arteria	33	Thoracic Surgery	361
32653	Thoracoscopy, surgical;	33	Thoracic Surgery	360
33406	Replacement, aortic valv	33	Thoracic Surgery	357
33542	Myocardial resection (eg	33	Thoracic Surgery	355
44140	Colectomy, partial; with	33	Thoracic Surgery	351

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34803	Endovascular repair of il	33	Thoracic Surgery	349
33945	Heart transplant, with or	33	Thoracic Surgery	348
33244	Removal of single or du	33	Thoracic Surgery	345
35571	Bypass graft, with vein;	33	Thoracic Surgery	341
33235	Removal of transvenous	33	Thoracic Surgery	336
33120	Excision of intracardiac	33	Thoracic Surgery	329
33223	Revision of skin pocket	33	Thoracic Surgery	326
35666	Bypass graft, with other	33	Thoracic Surgery	308
36820	Arteriovenous anastom	33	Thoracic Surgery	307
32504	Resection of apical lung	33	Thoracic Surgery	306
44120	Enterectomy, resection	33	Thoracic Surgery	305
39220	Excision of mediastinal f	33	Thoracic Surgery	303
33416	Ventriculomyotomy (-my	33	Thoracic Surgery	302
33514	Coronary artery bypass,	33	Thoracic Surgery	301
35082	Direct repair of aneurys	33	Thoracic Surgery	296
37766	Stab phlebectomy of var	33	Thoracic Surgery	294
21600	Excision of rib, partial	33	Thoracic Surgery	292
34101	Embolectomy or thromb	33	Thoracic Surgery	291
33215	Repositioning of previou	33	Thoracic Surgery	288
33234	Removal of transvenous	33	Thoracic Surgery	287
32655	Thoracoscopy, surgical;	33	Thoracic Surgery	283
61793	Stereotactic radiosurger	33	Thoracic Surgery	283
19125	Excision of breast lesio	33	Thoracic Surgery	279
43280	Laparoscopy, surgical, e	33	Thoracic Surgery	278
28820	Amputation, toe; metata	33	Thoracic Surgery	277
32141	Thoracotomy, major; wit	33	Thoracic Surgery	271
33536	Coronary artery bypass,	33	Thoracic Surgery	271
33265	Endoscopy, surgical; op	33	Thoracic Surgery	266
33266	Endoscopy, surgical; op	33	Thoracic Surgery	266
37760	Ligation of perforator ve	33	Thoracic Surgery	263
35585	In-situ vein bypass; fem	33	Thoracic Surgery	258
33216	Insertion of a transveno	33	Thoracic Surgery	253
13160	Secondary closure of su	33	Thoracic Surgery	249
32503	Resection of apical lung	33	Thoracic Surgery	248
35761	Exploration (not followe	33	Thoracic Surgery	246
32659	Thoracoscopy, surgical;	33	Thoracic Surgery	244
17108	Destruction of cutaneou	33	Thoracic Surgery	240
34203	Embolectomy or thromb	33	Thoracic Surgery	236
33881	Endovascular repair of c	33	Thoracic Surgery	234
33971	Removal of intra-aortic	33	Thoracic Surgery	234
33877	Repair of thoracoabdom	33	Thoracic Surgery	233
32310	Pleurectomy, parietal (s	33	Thoracic Surgery	229
33875	Descending thoracic aor	33	Thoracic Surgery	228
49000	Exploratory laparotomy,	33	Thoracic Surgery	225
36834	Plastic repair of arterio	33	Thoracic Surgery	220
43324	Esophagogastric fundop	33	Thoracic Surgery	220
27447	Arthroplasty, knee, cond	33	Thoracic Surgery	217
44005	Enterolysis (freeing of in	33	Thoracic Surgery	217
19260	Excision of chest wall tu	33	Thoracic Surgery	216
35876	Thrombectomy of arteria	33	Thoracic Surgery	216
35206	Repair blood vessel, dire	33	Thoracic Surgery	213
49585	Repair umbilical hernia,	33	Thoracic Surgery	207

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35721	Exploration (not followed	33	Thoracic Surgery	203
27301	Incision and drainage, d	33	Thoracic Surgery	199
33217	Insertion of a transveno	33	Thoracic Surgery	196
35665	Bypass graft, with other	33	Thoracic Surgery	196
35583	In-situ vein bypass; fem	33	Thoracic Surgery	194
33251	Operative ablation of su	33	Thoracic Surgery	190
32110	Thoracotomy, major; wit	33	Thoracic Surgery	189
38525	Biopsy or excision of lym	33	Thoracic Surgery	189
19120	Excision of cyst, fibroad	33	Thoracic Surgery	188
19307	Mastectomy, modified ra	33	Thoracic Surgery	188
21501	Incision and drainage, d	33	Thoracic Surgery	187
44160	Colectomy, partial, with	33	Thoracic Surgery	187
43112	Total or near total esoph	33	Thoracic Surgery	186
43830	Gastrostomy, open; with	33	Thoracic Surgery	184
60521	Thymectomy, partial or t	33	Thoracic Surgery	182
39502	Repair, paraesophageal	33	Thoracic Surgery	180
36822	Insertion of cannula(s) f	33	Thoracic Surgery	177
32662	Thoracoscopy, surgical;	33	Thoracic Surgery	175
37785	Ligation, division, and/or	33	Thoracic Surgery	173
32402	Biopsy, pleura; open	33	Thoracic Surgery	172
28805	Amputation, foot; trans	33	Thoracic Surgery	169
33465	Replacement, tricuspid v	33	Thoracic Surgery	169
35011	Direct repair of aneurysr	33	Thoracic Surgery	168
35355	Thromboendarterectomy	33	Thoracic Surgery	168
33861	Ascending aorta graft, w	33	Thoracic Surgery	167
35800	Exploration for postoper	33	Thoracic Surgery	166
43130	Diverticulectomy of hypc	33	Thoracic Surgery	166
49561	Repair initial incisional o	33	Thoracic Surgery	165
19271	Excision of chest wall tu	33	Thoracic Surgery	164
36870	Thrombectomy, percuta	33	Thoracic Surgery	156
32036	Thoracostomy; with ope	33	Thoracic Surgery	152
37215	Transcatheter placemer	33	Thoracic Surgery	152
33548	Surgical ventricular rest	33	Thoracic Surgery	151
37722	Ligation, division, and st	33	Thoracic Surgery	150
44143	Colectomy, partial; with	33	Thoracic Surgery	149
44300	Placement, enterostomy	33	Thoracic Surgery	148
38520	Biopsy or excision of lym	33	Thoracic Surgery	146
21555	Excision tumor, soft tiss	33	Thoracic Surgery	140
22558	Arthrodesis, anterior inte	33	Thoracic Surgery	140
33400	Valvuloplasty, aortic valv	33	Thoracic Surgery	140
35091	Direct repair of aneurysr	33	Thoracic Surgery	138
35654	Bypass graft, with other	33	Thoracic Surgery	138
19301	Mastectomy, partial (eg,	33	Thoracic Surgery	136
33243	Removal of single or du	33	Thoracic Surgery	136
35216	Repair blood vessel, dire	33	Thoracic Surgery	134
49425	Insertion of peritoneal-ve	33	Thoracic Surgery	134
15100	Split-thickness autograft	33	Thoracic Surgery	133
33315	Cardiotomy, exploratory	33	Thoracic Surgery	132
35211	Repair blood vessel, dire	33	Thoracic Surgery	130
33031	Pericardiectomy, subtota	33	Thoracic Surgery	129
35190	Repair, acquired or trau	33	Thoracic Surgery	129
35606	Bypass graft, with other	33	Thoracic Surgery	129

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44145	Colectomy, partial; with	33	Thoracic Surgery	129
60500	Parathyroidectomy or ex	33	Thoracic Surgery	128
35621	Bypass graft, with other	33	Thoracic Surgery	126
35840	Exploration for postoper	33	Thoracic Surgery	124
33880	Endovascular repair of c	33	Thoracic Surgery	123
35201	Repair blood vessel, dire	33	Thoracic Surgery	123
33015	Tube pericardiostomy	33	Thoracic Surgery	121
43415	Suture of esophageal we	33	Thoracic Surgery	121
32815	Open closure of major b	33	Thoracic Surgery	118
60200	Excision of cyst or aden	33	Thoracic Surgery	118
21620	Ostectomy of sternum, p	33	Thoracic Surgery	117
32150	Thoracotomy, major; wit	33	Thoracic Surgery	117
49565	Repair recurrent incision	33	Thoracic Surgery	117
32851	Lung transplant, single;	33	Thoracic Surgery	116
32900	Resection of ribs, extrap	33	Thoracic Surgery	116
33305	Repair of cardiac wound	33	Thoracic Surgery	116
38381	Suture and/or ligation of	33	Thoracic Surgery	116
35286	Repair blood vessel with	33	Thoracic Surgery	114
33300	Repair of cardiac wound	33	Thoracic Surgery	112
49421	Insertion of intraperitone	33	Thoracic Surgery	112
32215	Pleural scarification for r	33	Thoracic Surgery	111
35151	Direct repair of aneurysm	33	Thoracic Surgery	111
35631	Bypass graft, with other	33	Thoracic Surgery	109
39520	Repair, diaphragmatic h	33	Thoracic Surgery	109
21825	Open treatment of stern	33	Thoracic Surgery	107
35351	Thromboendarterectomy	33	Thoracic Surgery	106
38542	Dissection, deep jugular	33	Thoracic Surgery	106
60522	Thymectomy, partial or t	33	Thoracic Surgery	106
19303	Mastectomy, simple, con	33	Thoracic Surgery	104
33206	Insertion or replacement	33	Thoracic Surgery	104
34804	Endovascular repair of il	33	Thoracic Surgery	104
35256	Repair blood vessel with	33	Thoracic Surgery	103
19272	Excision of chest wall tu	33	Thoracic Surgery	101
32486	Removal of lung, other t	33	Thoracic Surgery	101
33020	Pericardiotomy for remo	33	Thoracic Surgery	101
35637	Bypass graft, with other	33	Thoracic Surgery	101
35638	Bypass graft, with other	33	Thoracic Surgery	101
15430	Acellular xenograft impla	33	Thoracic Surgery	97
21556	Excision tumor, soft tiss	33	Thoracic Surgery	97
32160	Thoracotomy, major; wit	33	Thoracic Surgery	97
39561	Resection, diaphragm; v	33	Thoracic Surgery	97
32488	Removal of lung, other t	33	Thoracic Surgery	96
49507	Repair initial inguinal he	33	Thoracic Surgery	96
35131	Direct repair of aneurysm	33	Thoracic Surgery	95
47605	Cholecystectomy; with c	33	Thoracic Surgery	95
49520	Repair recurrent inguina	33	Thoracic Surgery	95
28825	Amputation, toe; interph	33	Thoracic Surgery	94
32491	Removal of lung, other t	33	Thoracic Surgery	94
35879	Revision, lower extremity	33	Thoracic Surgery	94
32853	Lung transplant, double	33	Thoracic Surgery	93
37700	Ligation and division of l	33	Thoracic Surgery	93
49650	Laparoscopy, surgical; r	33	Thoracic Surgery	92

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32540	Extrapleural enucleation	33	Thoracic Surgery	91
21930	Excision, tumor, soft tissue	33	Thoracic Surgery	90
37500	Vascular endoscopy, surgical	33	Thoracic Surgery	90
43122	Partial esophagectomy, with	33	Thoracic Surgery	89
32854	Lung transplant, double	33	Thoracic Surgery	88
47100	Biopsy of liver, wedge	33	Thoracic Surgery	88
27602	Decompression fasciotomy	33	Thoracic Surgery	87
32445	Removal of lung, total	33	Thoracic Surgery	87
43326	Esophagogastric fundoplication	33	Thoracic Surgery	87
49587	Repair umbilical hernia, with	33	Thoracic Surgery	87
19302	Mastectomy, partial (eg, lumpectomy)	33	Thoracic Surgery	86
20926	Tissue grafts, other (eg, skin)	33	Thoracic Surgery	86
31613	Tracheostoma revision; with	33	Thoracic Surgery	86
35558	Bypass graft, with vein; for	33	Thoracic Surgery	86
60220	Total thyroid lobectomy, with	33	Thoracic Surgery	86
32035	Thoracostomy; with rib resection	33	Thoracic Surgery	85
33883	Placement of proximal esophageal	33	Thoracic Surgery	85
33681	Closure of single ventricular	33	Thoracic Surgery	82
35321	Thromboendarterectomy	33	Thoracic Surgery	82
34111	Embolectomy or thromboendarterectomy	33	Thoracic Surgery	81
49002	Reopening of recent laparotomy	33	Thoracic Surgery	81
33417	Aortoplasty (gusset) for	33	Thoracic Surgery	80
27236	Open treatment of femoral	33	Thoracic Surgery	79
33214	Upgrade of implanted pacemaker	33	Thoracic Surgery	79
38530	Biopsy or excision of lymph	33	Thoracic Surgery	79
35302	Thromboendarterectomy	33	Thoracic Surgery	78
35303	Thromboendarterectomy	33	Thoracic Surgery	78
35304	Thromboendarterectomy	33	Thoracic Surgery	78
35305	Thromboendarterectomy	33	Thoracic Surgery	78
27603	Incision and drainage, lesion	33	Thoracic Surgery	78
33236	Removal of permanent esophageal	33	Thoracic Surgery	78
35001	Direct repair of aneurysm	33	Thoracic Surgery	78
35103	Direct repair of aneurysm	33	Thoracic Surgery	78
34900	Endovascular graft placement	33	Thoracic Surgery	77
60240	Thyroidectomy, total or	33	Thoracic Surgery	77
39560	Resection, diaphragm; with	33	Thoracic Surgery	76
33980	Removal of ventricular aneurysm	33	Thoracic Surgery	73
35587	In-situ vein bypass; popliteal	33	Thoracic Surgery	72
43135	Diverticulectomy of hypopharynx	33	Thoracic Surgery	72
38100	Splenectomy; total (separate	33	Thoracic Surgery	70
39545	Imbrication of diaphragm	33	Thoracic Surgery	70
44950	Appendectomy;	33	Thoracic Surgery	70
49010	Exploration, retroperitoneum	33	Thoracic Surgery	69
27130	Arthroplasty, acetabular	33	Thoracic Surgery	68
35331	Thromboendarterectomy	33	Thoracic Surgery	68
35647	Bypass graft, with other	33	Thoracic Surgery	67
35701	Exploration (not followed	33	Thoracic Surgery	67
44320	Colostomy or skin level	33	Thoracic Surgery	66
32654	Thoracoscopy, surgical;	33	Thoracic Surgery	66
35626	Bypass graft, with other	33	Thoracic Surgery	66
44970	Laparoscopy, surgical, abdominal	33	Thoracic Surgery	66
43840	Gastrorrhaphy, suture of	33	Thoracic Surgery	65

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37618	Ligation, major artery (e	33	Thoracic Surgery	63
63085	Vertebral corpectomy (v	33	Thoracic Surgery	63
33545	Repair of postinfarction	33	Thoracic Surgery	61
33977	Removal of ventricular a	33	Thoracic Surgery	61
33335	Insertion of graft, aorta c	33	Thoracic Surgery	60
15738	Muscle, myocutaneous,	33	Thoracic Surgery	59
33282	Implantation of patient-a	33	Thoracic Surgery	59
27600	Decompression fascioto	33	Thoracic Surgery	58
33322	Suture repair of aorta or	33	Thoracic Surgery	58
34800	Endovascular repair of il	33	Thoracic Surgery	58
35671	Bypass graft, with other	33	Thoracic Surgery	58
14001	Adjacent tissue transfer	33	Thoracic Surgery	57
21630	Radical resection of ster	33	Thoracic Surgery	57
27596	Amputation, thigh, throu	33	Thoracic Surgery	57
33320	Suture repair of aorta or	33	Thoracic Surgery	57
35142	Direct repair of aneurysr	33	Thoracic Surgery	57
35236	Repair blood vessel with	33	Thoracic Surgery	57
44186	Laparoscopy, surgical; je	33	Thoracic Surgery	57
44205	Laparoscopy, surgical; c	33	Thoracic Surgery	57
61885	Insertion or replacement	33	Thoracic Surgery	57
15936	Excision, sacral pressur	33	Thoracic Surgery	56
33516	Coronary artery bypass,	33	Thoracic Surgery	56
43030	Cricopharyngeal myoton	33	Thoracic Surgery	56
44204	Laparoscopy, surgical; c	33	Thoracic Surgery	56
26990	Incision and drainage, p	33	Thoracic Surgery	55
35221	Repair blood vessel, dire	33	Thoracic Surgery	55
64573	Incision for implantation	33	Thoracic Surgery	55
33310	Cardiotomy, exploratory	33	Thoracic Surgery	54
44310	Ileostomy or jejunostom	33	Thoracic Surgery	54
49566	Repair recurrent incision	33	Thoracic Surgery	54
60271	Thyroidectomy, including	33	Thoracic Surgery	54
36838	Distal revascularization	33	Thoracic Surgery	53
14300	Adjacent tissue transfer	33	Thoracic Surgery	52
35261	Repair blood vessel with	33	Thoracic Surgery	52
35341	Thromboendarterectomy	33	Thoracic Surgery	52
49020	Drainage of peritoneal a	33	Thoracic Surgery	52
33050	Excision of pericardial c	33	Thoracic Surgery	51
33415	Resection or incision of	33	Thoracic Surgery	51
37718	Ligation, division, and st	33	Thoracic Surgery	51
44626	Closure of enterostomy,	33	Thoracic Surgery	51
34490	Thrombectomy, direct o	33	Thoracic Surgery	50
35741	Exploration (not followe	33	Thoracic Surgery	50
39501	Repair, laceration of dia	33	Thoracic Surgery	50
27245	Treatment of intertrocha	33	Thoracic Surgery	49
33496	Repair of non-structural	33	Thoracic Surgery	49
44602	Suture of small intestine	33	Thoracic Surgery	49
43121	Partial esophagectomy,	33	Thoracic Surgery	48
44960	Appendectomy; for ruptu	33	Thoracic Surgery	48
22556	Arthrodesis, anterior inte	33	Thoracic Surgery	47
32664	Thoracoscopy, surgical;	33	Thoracic Surgery	47
43800	Pyloroplasty	33	Thoracic Surgery	47
33404	Construction of apical-a	33	Thoracic Surgery	46

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43310	Esophagoplasty (plastic	33	Thoracic Surgery	46
46260	Hemorrhoidectomy, inte	33	Thoracic Surgery	46
63090	Vertebral corpectomy (v	33	Thoracic Surgery	46
43331	Esophagomyotomy (Hel	33	Thoracic Surgery	45
44150	Colectomy, total, abdom	33	Thoracic Surgery	45
50360	Renal allotransplantatio	33	Thoracic Surgery	45
33910	Pulmonary artery embol	33	Thoracic Surgery	44
33203	Insertion of epicardial el	33	Thoracic Surgery	44
33414	Repair of left ventricular	33	Thoracic Surgery	43
34151	Embolectomy or thromb	33	Thoracic Surgery	43
47610	Cholecystectomy with ex	33	Thoracic Surgery	43
49904	Omental flap, extra-abdo	33	Thoracic Surgery	43
27886	Amputation, leg, through	33	Thoracic Surgery	42
39200	Excision of mediastinal c	33	Thoracic Surgery	42
50230	Nephrectomy, including	33	Thoracic Surgery	42
60270	Thyroidectomy, including	33	Thoracic Surgery	42
32905	Thoracoplasty, Schede t	33	Thoracic Surgery	41
38745	Axillary lymphadenector	33	Thoracic Surgery	41
21557	Radical resection of tum	33	Thoracic Surgery	40
32140	Thoracotomy, major; wit	33	Thoracic Surgery	40
33238	Removal of permanent t	33	Thoracic Surgery	40
33475	Replacement, pulmonar	33	Thoracic Surgery	40
34502	Reconstruction of vena c	33	Thoracic Surgery	40
38760	Inguinofemoral lymphad	33	Thoracic Surgery	40
33218	Repair of single transve	33	Thoracic Surgery	39
23120	Claviclectomy; partial	33	Thoracic Surgery	38
27884	Amputation, leg, through	33	Thoracic Surgery	38
33140	Transmyocardial laser re	33	Thoracic Surgery	38
43820	Gastrojejunostomy; with	33	Thoracic Surgery	38
44141	Colectomy, partial; with	33	Thoracic Surgery	38
32200	Pneumonostomy; with o	33	Thoracic Surgery	37
37616	Ligation, major artery (e	33	Thoracic Surgery	37
62361	Implantation or replacen	33	Thoracic Surgery	37
43610	Excision, local; ulcer or	33	Thoracic Surgery	36
47564	Laparoscopy, surgical; c	33	Thoracic Surgery	35
49900	Suture, secondary, of ab	33	Thoracic Surgery	34
64818	Sympathectomy, lumbar	33	Thoracic Surgery	34
36835	Insertion of Thomas shu	33	Thoracic Surgery	33
43520	Pyloromyotomy, cutting	33	Thoracic Surgery	33
33422	Valvotomy, mitral valve;	33	Thoracic Surgery	32
35241	Repair blood vessel with	33	Thoracic Surgery	32
35266	Repair blood vessel with	33	Thoracic Surgery	32
35650	Bypass graft, with other	33	Thoracic Surgery	32
44180	Laparoscopy, surgical, e	33	Thoracic Surgery	32
63047	Laminectomy, facetecto	33	Thoracic Surgery	32
35271	Repair blood vessel with	33	Thoracic Surgery	31
22612	Arthrodesis, posterior or	33	Thoracic Surgery	31
33647	Repair of atrial septal de	33	Thoracic Surgery	31
35092	Direct repair of aneurysr	33	Thoracic Surgery	31
35565	Bypass graft, with vein; i	33	Thoracic Surgery	31
35601	Bypass graft, with other	33	Thoracic Surgery	31
35881	Revision, lower extremi	33	Thoracic Surgery	31

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43330	Esophagomyotomy (Hel	33	Thoracic Surgery	31
46947	Hemorrhoidopexy (eg, fo	33	Thoracic Surgery	31
62350	Implantation, revision or	33	Thoracic Surgery	31
27594	Amputation, thigh, throu	33	Thoracic Surgery	30
32940	Pneumonolysis, extrape	33	Thoracic Surgery	30
33502	Repair of anomalous co	33	Thoracic Surgery	30
33130	Resection of external ca	33	Thoracic Surgery	29
35907	Excision of infected graf	33	Thoracic Surgery	29
38308	Lymphangiomyotomy or othe	33	Thoracic Surgery	29
44110	Excision of one or more	33	Thoracic Surgery	29
21632	Radical resection of ster	33	Thoracic Surgery	28
26951	Amputation, finger or thu	33	Thoracic Surgery	28
27327	Excision, tumor, thigh or	33	Thoracic Surgery	28
33645	Direct or patch closure,	33	Thoracic Surgery	28
49521	Repair recurrent inguina	33	Thoracic Surgery	28
60520	Thymectomy, partial or t	33	Thoracic Surgery	28
27598	Disarticulation at knee	33	Thoracic Surgery	27
31780	Excision tracheal stenosis	33	Thoracic Surgery	27
35045	Direct repair of aneurysm	33	Thoracic Surgery	27
43124	Total or partial esophage	33	Thoracic Surgery	27
43631	Gastrectomy, partial, dis	33	Thoracic Surgery	27
44144	Colectomy, partial; with	33	Thoracic Surgery	27
49525	Repair inguinal hernia, s	33	Thoracic Surgery	27
15120	Split-thickness autograft	33	Thoracic Surgery	26
15750	Flap; neurovascular ped	33	Thoracic Surgery	26
15937	Excision, sacral pressur	33	Thoracic Surgery	26
25028	Incision and drainage, fo	33	Thoracic Surgery	26
31610	Tracheostomy, fenestra	33	Thoracic Surgery	26
32800	Repair lung hernia throu	33	Thoracic Surgery	26
32810	Closure of chest wall fol	33	Thoracic Surgery	26
33261	Operative ablation of ve	33	Thoracic Surgery	26
37617	Ligation, major artery (e	33	Thoracic Surgery	26
43832	Gastrostomy, open; with	33	Thoracic Surgery	26
64721	Neuroplasty and/or trans	33	Thoracic Surgery	26
14000	Adjacent tissue transfer	33	Thoracic Surgery	25
21615	Excision first and/or cer	33	Thoracic Surgery	25
22900	Excision, abdominal wal	33	Thoracic Surgery	25
33220	Repair of two transveno	33	Thoracic Surgery	25
34805	Endovascular repair of il	33	Thoracic Surgery	25
43644	Laparoscopy, surgical, g	33	Thoracic Surgery	25
44146	Colectomy, partial; with	33	Thoracic Surgery	25
46040	Incision and drainage of	33	Thoracic Surgery	25
49550	Repair initial femoral he	33	Thoracic Surgery	25
35539	Bypass graft, with vein; a	33	Thoracic Surgery	25
35540	Bypass graft, with vein; a	33	Thoracic Surgery	25
21700	Division of scalenus anti	33	Thoracic Surgery	24
33237	Removal of permanent e	33	Thoracic Surgery	24
33412	Replacement, aortic valv	33	Thoracic Surgery	24
35501	Bypass graft, with vein; c	33	Thoracic Surgery	24
39541	Repair, diaphragmatic h	33	Thoracic Surgery	24
43320	Esophagogastrostomy (c	33	Thoracic Surgery	24
43632	Gastrectomy, partial, dis	33	Thoracic Surgery	24

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44620	Closure of enterostomy,	33	Thoracic Surgery	24
49570	Repair epigastric hernia	33	Thoracic Surgery	24
63087	Vertebral corpectomy (v	33	Thoracic Surgery	24
22554	Arthrodesis, anterior inte	33	Thoracic Surgery	23
33500	Repair of coronary arter	33	Thoracic Surgery	23
35121	Direct repair of aneurysr	33	Thoracic Surgery	23
43410	Suture of esophageal we	33	Thoracic Surgery	23
43870	Closure of gastrostomy,	33	Thoracic Surgery	23
23412	Repair of ruptured musc	33	Thoracic Surgery	22
24075	Excision, tumor, soft tiss	33	Thoracic Surgery	22
26055	Tendon sheath incision	33	Thoracic Surgery	22
27244	Treatment of intertrocha	33	Thoracic Surgery	22
35013	Direct repair of aneurysr	33	Thoracic Surgery	22
35663	Bypass graft, with other	33	Thoracic Surgery	22
38740	Axillary lymphadenectom	33	Thoracic Surgery	22
43352	Esophagostomy, fistuliza	33	Thoracic Surgery	22
44050	Reduction of volvulus, in	33	Thoracic Surgery	22
35883	Revision, femoral anasto	33	Thoracic Surgery	21
35884	Revision, femoral anasto	33	Thoracic Surgery	21
33460	Valvectomy, tricuspid va	33	Thoracic Surgery	21
35531	Bypass graft, with vein; a	33	Thoracic Surgery	21
37735	Ligation and division and	33	Thoracic Surgery	21
37780	Ligation and division of s	33	Thoracic Surgery	21
43101	Excision of lesion, esopl	33	Thoracic Surgery	21
43633	Gastrectomy, partial, dis	33	Thoracic Surgery	21
44603	Suture of small intestine	33	Thoracic Surgery	21
44604	Suture of large intestine	33	Thoracic Surgery	21
45170	Excision of rectal tumor,	33	Thoracic Surgery	21
49402	Removal of peritoneal fo	33	Thoracic Surgery	21
49553	Repair initial femoral he	33	Thoracic Surgery	21
44130	Enteroenterostomy, ana	33	Thoracic Surgery	20
28800	Amputation, foot; midtar	33	Thoracic Surgery	20
31770	Bronchoplasty; graft rep	33	Thoracic Surgery	20
32820	Major reconstruction, ch	33	Thoracic Surgery	20
35231	Repair blood vessel with	33	Thoracic Surgery	20
35506	Bypass graft, with vein; c	33	Thoracic Surgery	20
35525	Bypass graft, with vein; f	33	Thoracic Surgery	20
38555	Excision of cystic hydror	33	Thoracic Surgery	20
43653	Laparoscopy, surgical; g	33	Thoracic Surgery	20
44202	Laparoscopy, surgical; e	33	Thoracic Surgery	20
60225	Total thyroid lobectomy,	33	Thoracic Surgery	20
15946	Excision, ischial pressur	33	Thoracic Surgery	19
17106	Destruction of cutaneous	33	Thoracic Surgery	19
27882	Amputation, leg, through	33	Thoracic Surgery	19
32906	Thoracoplasty, Schede t	33	Thoracic Surgery	19
33284	Removal of an implanta	33	Thoracic Surgery	19
34001	Embolectomy or thromb	33	Thoracic Surgery	19
35522	Bypass graft, with vein; a	33	Thoracic Surgery	19
38305	Drainage of lymph node	33	Thoracic Surgery	19
38724	Cervical lymphadenecto	33	Thoracic Surgery	19
63075	Discectomy, anterior, wi	33	Thoracic Surgery	19
33330	Insertion of graft, aorta c	33	Thoracic Surgery	18

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33720	Repair sinus of Valsalva	33	Thoracic Surgery	18
33974	Removal of intra-aortic b	33	Thoracic Surgery	18
33978	Removal of ventricular a	33	Thoracic Surgery	18
35276	Repair blood vessel with	33	Thoracic Surgery	18
43621	Gastrectomy, total; with	33	Thoracic Surgery	18
44207	Laparoscopy, surgical; c	33	Thoracic Surgery	18
58720	Salpingo-oophorectomy	33	Thoracic Surgery	18
60210	Partial thyroid lobectomy	33	Thoracic Surgery	18
15731	Forehead flap with prese	33	Thoracic Surgery	18
33507	Repair of anomalous (eg	33	Thoracic Surgery	17
21510	Incision, deep, with oper	33	Thoracic Surgery	17
24495	Decompression fascioto	33	Thoracic Surgery	17
27446	Arthroplasty, knee, cond	33	Thoracic Surgery	17
27881	Amputation, leg, through	33	Thoracic Surgery	17
31760	Tracheoplasty; intrathor	33	Thoracic Surgery	17
33250	Operative ablation of su	33	Thoracic Surgery	17
33917	Repair of pulmonary arte	33	Thoracic Surgery	17
34421	Thrombectomy, direct o	33	Thoracic Surgery	17
35509	Bypass graft, with vein; c	33	Thoracic Surgery	17
35560	Bypass graft, with vein; a	33	Thoracic Surgery	17
38562	Limited lymphadenector	33	Thoracic Surgery	17
43325	Esophagogastric fundop	33	Thoracic Surgery	17
43500	Gastrotomy; with explor	33	Thoracic Surgery	17
44021	Enterotomy, small intest	33	Thoracic Surgery	17
46255	Hemorrhoidectomy, inte	33	Thoracic Surgery	17
49060	Drainage of retroperiton	33	Thoracic Surgery	17
14040	Adjacent tissue transfer	33	Thoracic Surgery	16
27592	Amputation, thigh, throu	33	Thoracic Surgery	16
32151	Thoracotomy, major; wit	33	Thoracic Surgery	16
33820	Repair of patent ductus	33	Thoracic Surgery	16
35132	Direct repair of aneurysr	33	Thoracic Surgery	16
35905	Excision of infected graf	33	Thoracic Surgery	16
58940	Oophorectomy, partial o	33	Thoracic Surgery	16
62362	Implantation or replacen	33	Thoracic Surgery	16
23076	Excision, soft tissue tum	33	Thoracic Surgery	15
23180	Partial excision (crateriz	33	Thoracic Surgery	15
23420	Reconstruction of comp	33	Thoracic Surgery	15
27328	Excision, tumor, thigh or	33	Thoracic Surgery	15
31614	Tracheostoma revision;	33	Thoracic Surgery	15
35533	Bypass graft, with vein; a	33	Thoracic Surgery	15
36823	Insertion of arterial and v	33	Thoracic Surgery	15
43501	Gastrotomy; with suture	33	Thoracic Surgery	15
43611	Excision, local; malignar	33	Thoracic Surgery	15
44227	Laparoscopy, surgical, c	33	Thoracic Surgery	15
63042	Laminotomy (hemilamin	33	Thoracic Surgery	15
15240	Full thickness graft, free	33	Thoracic Surgery	14
15570	Formation of direct or tu	33	Thoracic Surgery	14
15740	Flap; island pedicle	33	Thoracic Surgery	14
15956	Excision, trochanteric pr	33	Thoracic Surgery	14
25111	Excision of ganglion, wri	33	Thoracic Surgery	14
28005	Incision, bone cortex (eg	33	Thoracic Surgery	14
32665	Thoracoscopy, surgical;	33	Thoracic Surgery	14

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34401	Thrombectomy, direct or	33	Thoracic Surgery	14
35021	Direct repair of aneurysm	33	Thoracic Surgery	14
35361	Thromboendarterectomy	33	Thoracic Surgery	14
35651	Bypass graft, with other	33	Thoracic Surgery	14
38720	Cervical lymphadenecto	33	Thoracic Surgery	14
44625	Closure of enterostomy,	33	Thoracic Surgery	14
50220	Nephrectomy, including	33	Thoracic Surgery	14
60252	Thyroidectomy, total or s	33	Thoracic Surgery	14
63077	Discectomy, anterior, wi	33	Thoracic Surgery	14
44188	Laparoscopy, surgical, c	33	Thoracic Surgery	14
14020	Adjacent tissue transfer	33	Thoracic Surgery	13
14021	Adjacent tissue transfer	33	Thoracic Surgery	13
22630	Arthrodesis, posterior in	33	Thoracic Surgery	13
27047	Excision, tumor, pelvis a	33	Thoracic Surgery	13
31820	Surgical closure tracheo	33	Thoracic Surgery	13
31830	Revision of tracheostom	33	Thoracic Surgery	13
32661	Thoracoscopy, surgical;	33	Thoracic Surgery	13
33501	Repair of coronary arter	33	Thoracic Surgery	13
36260	Insertion of implantable	33	Thoracic Surgery	13
38120	Laparoscopy, surgical, s	33	Thoracic Surgery	13
39530	Repair, diaphragmatic h	33	Thoracic Surgery	13
43360	Gastrointestinal reconst	33	Thoracic Surgery	13
49572	Repair epigastric hernia	33	Thoracic Surgery	13
15770	Graft; derma-fat-fascia	33	Thoracic Surgery	12
21740	Reconstructive repair of	33	Thoracic Surgery	12
27487	Revision of total knee ar	33	Thoracic Surgery	12
27506	Open treatment of femo	33	Thoracic Surgery	12
33476	Right ventricular resecti	33	Thoracic Surgery	12
33478	Outflow tract augmentat	33	Thoracic Surgery	12
35184	Repair, congenital arteri	33	Thoracic Surgery	12
35612	Bypass graft, with other	33	Thoracic Surgery	12
42415	Excision of parotid tumo	33	Thoracic Surgery	12
43300	Esophagoplasty (plastic	33	Thoracic Surgery	12
43312	Esophagoplasty (plastic	33	Thoracic Surgery	12
43860	Revision of gastrojejuna	33	Thoracic Surgery	12
48140	Pancreatectomy, distal s	33	Thoracic Surgery	12
49040	Drainage of subdiaphrag	33	Thoracic Surgery	12
58150	Total abdominal hystere	33	Thoracic Surgery	12
33675	Closure of multiple vent	33	Thoracic Surgery	12
19020	Mastotomy with explorat	33	Thoracic Surgery	11
27618	Excision, tumor, leg or a	33	Thoracic Surgery	11
33660	Repair of incomplete or	33	Thoracic Surgery	11
37605	Ligation; internal or com	33	Thoracic Surgery	11
42410	Excision of parotid tumo	33	Thoracic Surgery	11
43045	Esophagotomy, thoracic	33	Thoracic Surgery	11
43425	Closure of esophagosto	33	Thoracic Surgery	11
43620	Gastrectomy, total; with	33	Thoracic Surgery	11
43843	Gastric restrictive proce	33	Thoracic Surgery	11
44125	Enterectomy, resection o	33	Thoracic Surgery	11
44640	Closure of intestinal cuta	33	Thoracic Surgery	11
55845	Prostatectomy, retropub	33	Thoracic Surgery	11
64713	Neuroplasty, major perip	33	Thoracic Surgery	11

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15732	Muscle, myocutaneous,	33	Thoracic Surgery	10
15650	Transfer, intermediate, c	33	Thoracic Surgery	10
19110	Nipple exploration, with	33	Thoracic Surgery	10
21800	Closed treatment of rib f	33	Thoracic Surgery	10
24076	Excision, tumor, soft tiss	33	Thoracic Surgery	10
25075	Excision, tumor, soft tiss	33	Thoracic Surgery	10
25248	Exploration with remova	33	Thoracic Surgery	10
27125	Hemiarthroplasty, hip, p	33	Thoracic Surgery	10
28003	Incision and drainage be	33	Thoracic Surgery	10
29826	Arthroscopy, shoulder, s	33	Thoracic Surgery	10
32852	Lung transplant, single;	33	Thoracic Surgery	10
33615	Repair of complex cardi	33	Thoracic Surgery	10
35281	Repair blood vessel with	33	Thoracic Surgery	10
35311	Thromboendarterectomy	33	Thoracic Surgery	10
39540	Repair, diaphragmatic h	33	Thoracic Surgery	10
43640	Vagotomy including pylc	33	Thoracic Surgery	10
44020	Enterotomy, small intest	33	Thoracic Surgery	10
44147	Colectomy, partial; abdo	33	Thoracic Surgery	10
44346	Revision of colostomy; v	33	Thoracic Surgery	10
44800	Excision of Meckel's div	33	Thoracic Surgery	10
47350	Management of liver he	33	Thoracic Surgery	10
49651	Laparoscopy, surgical; r	33	Thoracic Surgery	10
60502	Parathyroidectomy or ex	33	Thoracic Surgery	10
60505	Parathyroidectomy or ex	33	Thoracic Surgery	10
60600	Excision of carotid body	33	Thoracic Surgery	10
45110	Proctectomy; complete,	33	Thoracic Surgery	10
43770	Laparoscopy, surgical, c	33	Thoracic Surgery	10
44187	Laparoscopy, surgical; il	33	Thoracic Surgery	10
15756	Free muscle or myocuta	33	Thoracic Surgery	9
15931	Excision, sacral pressur	33	Thoracic Surgery	9
19300	Mastectomy for gynecor	33	Thoracic Surgery	9
22326	Open treatment and/or r	33	Thoracic Surgery	9
25565	Closed treatment of radi	33	Thoracic Surgery	9
31805	Suture of tracheal woun	33	Thoracic Surgery	9
32658	Thoracoscopy, surgical;	33	Thoracic Surgery	9
33617	Repair of complex cardi	33	Thoracic Surgery	9
33916	Pulmonary endarterecto	33	Thoracic Surgery	9
35623	Bypass graft, with other	33	Thoracic Surgery	9
35901	Excision of infected graf	33	Thoracic Surgery	9
37650	Ligation of femoral vein	33	Thoracic Surgery	9
42420	Excision of parotid tumo	33	Thoracic Surgery	9
43405	Ligation or stapling at ga	33	Thoracic Surgery	9
44206	Laparoscopy, surgical; c	33	Thoracic Surgery	9
44345	Revision of colostomy; c	33	Thoracic Surgery	9
46200	Fissurectomy, with or wi	33	Thoracic Surgery	9
47120	Hepatectomy, resection	33	Thoracic Surgery	9
47780	Anastomosis, Roux-en-	33	Thoracic Surgery	9
50715	Ureterolysis, with or with	33	Thoracic Surgery	9
62223	Creation of shunt; ventri	33	Thoracic Surgery	9
43845	Gastric restrictive proce	33	Thoracic Surgery	8
14060	Adjacent tissue transfer	33	Thoracic Surgery	8
21502	Incision and drainage, d	33	Thoracic Surgery	8

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23044	Arthrotomy, acromioclav	33	Thoracic Surgery	8
26115	Excision, tumor or vascu	33	Thoracic Surgery	8
26952	Amputation, finger or thu	33	Thoracic Surgery	8
27752	Closed treatment of tibia	33	Thoracic Surgery	8
31781	Excision tracheal stenosis	33	Thoracic Surgery	8
32660	Thoracoscopy, surgical;	33	Thoracic Surgery	8
33504	Repair of anomalous co	33	Thoracic Surgery	8
35122	Direct repair of aneurysm	33	Thoracic Surgery	8
35363	Thromboendarterectomy	33	Thoracic Surgery	8
43361	Gastrointestinal reconst	33	Thoracic Surgery	8
48100	Biopsy of pancreas, open	33	Thoracic Surgery	8
54520	Orchiectomy, simple (inc	33	Thoracic Surgery	8
57288	Sling operation for stres	33	Thoracic Surgery	8
60260	Thyroidectomy, removal	33	Thoracic Surgery	8
61770	Stereotactic localization,	33	Thoracic Surgery	8
63045	Laminectomy, facetectom	33	Thoracic Surgery	8
64722	Decompression; unspec	33	Thoracic Surgery	8
15115	Epidermal autograft, fac	33	Thoracic Surgery	7
45395	Laparoscopy, surgical; p	33	Thoracic Surgery	7
15736	Muscle, myocutaneous,	33	Thoracic Surgery	7
15935	Excision, sacral pressur	33	Thoracic Surgery	7
22600	Arthrodesis, posterior or	33	Thoracic Surgery	7
22810	Arthrodesis, anterior, for	33	Thoracic Surgery	7
26160	Excision of lesion of ten	33	Thoracic Surgery	7
27324	Biopsy, soft tissue of thi	33	Thoracic Surgery	7
27372	Removal of foreign body	33	Thoracic Surgery	7
27894	Decompression fasciotom	33	Thoracic Surgery	7
33612	Repair of double outlet r	33	Thoracic Surgery	7
33853	Repair of hypoplastic or	33	Thoracic Surgery	7
34832	Open repair of infrarena	33	Thoracic Surgery	7
35246	Repair blood vessel with	33	Thoracic Surgery	7
35251	Repair blood vessel with	33	Thoracic Surgery	7
35521	Bypass graft, with vein; c	33	Thoracic Surgery	7
38564	Limited lymphadenector	33	Thoracic Surgery	7
43100	Excision of lesion, esoph	33	Thoracic Surgery	7
43113	Total or near total esoph	33	Thoracic Surgery	7
43846	Gastric restrictive proce	33	Thoracic Surgery	7
46261	Hemorrhoidectomy, inte	33	Thoracic Surgery	7
46270	Surgical treatment of an	33	Thoracic Surgery	7
48150	Pancreatectomy, proxim	33	Thoracic Surgery	7
49590	Repair spigelian hernia	33	Thoracic Surgery	7
50370	Removal of transplanted	33	Thoracic Surgery	7
54405	Insertion of multi-compo	33	Thoracic Surgery	7
55040	Excision of hydrocele; u	33	Thoracic Surgery	7
55520	Excision of lesion of spe	33	Thoracic Surgery	7
63081	Vertebral corpectomy (v	33	Thoracic Surgery	7
63101	Vertebral corpectomy (v	33	Thoracic Surgery	7
64746	Transection or avulsion	33	Thoracic Surgery	7
67040	Vitrectomy, mechanical,	33	Thoracic Surgery	7
33724	Repair of isolated partia	33	Thoracic Surgery	6
33726	Repair of pulmonary ver	33	Thoracic Surgery	6
15260	Full thickness graft, free	33	Thoracic Surgery	6

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15330	Acellular dermal allograft	33	Thoracic Surgery	6
19305	Mastectomy, radical, inc	33	Thoracic Surgery	6
21925	Biopsy, soft tissue of ba	33	Thoracic Surgery	6
22855	Removal of anterior inst	33	Thoracic Surgery	6
27132	Conversion of previous l	33	Thoracic Surgery	6
27134	Revision of total hip arth	33	Thoracic Surgery	6
27486	Revision of total knee ar	33	Thoracic Surgery	6
27524	Open treatment of patell	33	Thoracic Surgery	6
27814	Open treatment of bima	33	Thoracic Surgery	6
28120	Partial excision (crateriz	33	Thoracic Surgery	6
31750	Tracheoplasty; cervical	33	Thoracic Surgery	6
31785	Excision of tracheal tum	33	Thoracic Surgery	6
33413	Replacement, aortic valv	33	Thoracic Surgery	6
33702	Repair sinus of Valsalva	33	Thoracic Surgery	6
33915	Pulmonary artery embol	33	Thoracic Surgery	6
33922	Transection of pulmonar	33	Thoracic Surgery	6
34830	Open repair of infrarena	33	Thoracic Surgery	6
35695	Transposition and/or rei	33	Thoracic Surgery	6
35870	Repair of graft-enteric fi	33	Thoracic Surgery	6
37660	Ligation of common iliac	33	Thoracic Surgery	6
38380	Suture and/or ligation of	33	Thoracic Surgery	6
43020	Esophagotomy, cervical	33	Thoracic Surgery	6
44340	Revision of colostomy; s	33	Thoracic Surgery	6
44661	Closure of enterovesical	33	Thoracic Surgery	6
45020	Incision and drainage of	33	Thoracic Surgery	6
46060	Incision and drainage of	33	Thoracic Surgery	6
47130	Hepatectomy, resection	33	Thoracic Surgery	6
47420	Choledochotomy or cho	33	Thoracic Surgery	6
55840	Prostatectomy, retropub	33	Thoracic Surgery	6
57240	Anterior colporrhaphy, re	33	Thoracic Surgery	6
58740	Lysis of adhesions (salp	33	Thoracic Surgery	6
62355	Removal of previously ir	33	Thoracic Surgery	6
77778	Interstitial radiation sour	33	Thoracic Surgery	6
35537	Bypass graft, with vein; a	33	Thoracic Surgery	6
35538	Bypass graft, with vein; a	33	Thoracic Surgery	6
11771	Excision of pilonidal cys	33	Thoracic Surgery	5
14041	Adjacent tissue transfer	33	Thoracic Surgery	5
19304	Mastectomy, subcutane	33	Thoracic Surgery	5
21810	Treatment of rib fracture	33	Thoracic Surgery	5
21935	Radical resection of tum	33	Thoracic Surgery	5
22325	Open treatment and/or r	33	Thoracic Surgery	5
23170	Sequestrectomy (eg, for	33	Thoracic Surgery	5
25020	Decompression fascioto	33	Thoracic Surgery	5
27048	Excision, tumor, pelvis a	33	Thoracic Surgery	5
27502	Closed treatment of fem	33	Thoracic Surgery	5
27601	Decompression fascioto	33	Thoracic Surgery	5
27619	Excision, tumor, leg or a	33	Thoracic Surgery	5
27810	Closed treatment of bim	33	Thoracic Surgery	5
28111	Ostectomy, complete ex	33	Thoracic Surgery	5
29822	Arthroscopy, shoulder, s	33	Thoracic Surgery	5
33420	Valvotomy, mitral valve;	33	Thoracic Surgery	5
33600	Closure of atrioventricul	33	Thoracic Surgery	5

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33935	Heart-lung transplant wi	33	Thoracic Surgery	5
34831	Open repair of infrarena	33	Thoracic Surgery	5
35189	Repair, acquired or trau	33	Thoracic Surgery	5
35551	Bypass graft, with vein; s	33	Thoracic Surgery	5
35563	Bypass graft, with vein; i	33	Thoracic Surgery	5
43118	Partial esophagectomy,	33	Thoracic Surgery	5
43341	Esophagojejunostomy (v	33	Thoracic Surgery	5
43420	Closure of esophagosto	33	Thoracic Surgery	5
43605	Biopsy of stomach; by la	33	Thoracic Surgery	5
44155	Colectomy, total, abdom	33	Thoracic Surgery	5
44312	Revision of ileostomy; si	33	Thoracic Surgery	5
44314	Revision of ileostomy; co	33	Thoracic Surgery	5
44615	Intestinal stricturoplasty	33	Thoracic Surgery	5
44650	Closure of enteroenteric	33	Thoracic Surgery	5
46250	Hemorrhoidectomy, exte	33	Thoracic Surgery	5
46275	Surgical treatment of an	33	Thoracic Surgery	5
47480	Cholecystotomy or chole	33	Thoracic Surgery	5
47612	Cholecystectomy with ex	33	Thoracic Surgery	5
50240	Nephrectomy, partial	33	Thoracic Surgery	5
50760	Ureteroureterostomy	33	Thoracic Surgery	5
51595	Cystectomy, complete, v	33	Thoracic Surgery	5
51865	Cystorrhaphy, suture of	33	Thoracic Surgery	5
55842	Prostatectomy, retropub	33	Thoracic Surgery	5
58700	Salpingectomy, complet	33	Thoracic Surgery	5
60540	Adrenalectomy, partial c	33	Thoracic Surgery	5
62230	Replacement or revisior	33	Thoracic Surgery	5
63301	Vertebral corpectomy (v	33	Thoracic Surgery	5
63650	Percutaneous implantati	33	Thoracic Surgery	5
64772	Transection or avulsion	33	Thoracic Surgery	5
15050	Pinch graft, single or mu	33	Thoracic Surgery	4
15934	Excision, sacral pressur	33	Thoracic Surgery	4
19330	Removal of mammary ir	33	Thoracic Surgery	4
19366	Breast reconstruction wi	33	Thoracic Surgery	4
21705	Division of scalenus anti	33	Thoracic Surgery	4
21805	Open treatment of rib fra	33	Thoracic Surgery	4
22808	Arthrodesis, anterior, for	33	Thoracic Surgery	4
23066	Biopsy, soft tissue of sh	33	Thoracic Surgery	4
23140	Excision or curettage of	33	Thoracic Surgery	4
23200	Radical resection for tur	33	Thoracic Surgery	4
24105	Excision, olecranon burs	33	Thoracic Surgery	4
25270	Repair, tendon or muscl	33	Thoracic Surgery	4
25605	Closed treatment of dist	33	Thoracic Surgery	4
26910	Amputation, metacarpal	33	Thoracic Surgery	4
27228	Open treatment of aceta	33	Thoracic Surgery	4
27329	Radical resection of tum	33	Thoracic Surgery	4
27507	Open treatment of femo	33	Thoracic Surgery	4
27630	Excision of lesion of ten	33	Thoracic Surgery	4
31370	Partial laryngectomy (he	33	Thoracic Surgery	4
31786	Excision of tracheal tum	33	Thoracic Surgery	4
32442	Removal of lung, total p	33	Thoracic Surgery	4
33608	Repair of complex card	33	Thoracic Surgery	4
33730	Complete repair of anon	33	Thoracic Surgery	4

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33800	Aortic suspension (aortic)	33	Thoracic Surgery	4
33814	Obliteration of aortopulmonary	33	Thoracic Surgery	4
33845	Excision of coarctation of	33	Thoracic Surgery	4
33886	Placement of distal exte	33	Thoracic Surgery	4
34051	Embolectomy or thrombo	33	Thoracic Surgery	4
34471	Thrombectomy, direct or	33	Thoracic Surgery	4
35518	Bypass graft, with vein; a	33	Thoracic Surgery	4
35548	Bypass graft, with vein; a	33	Thoracic Surgery	4
35616	Bypass graft, with other	33	Thoracic Surgery	4
35694	Transposition and/or reir	33	Thoracic Surgery	4
36262	Removal of implanted in	33	Thoracic Surgery	4
37615	Ligation, major artery (es	33	Thoracic Surgery	4
38382	Suture and/or ligation of	33	Thoracic Surgery	4
40520	Excision of lip; V-excisio	33	Thoracic Surgery	4
42440	Excision of submandibul	33	Thoracic Surgery	4
42955	Pharyngostomy (fistuliza	33	Thoracic Surgery	4
43123	Partial esophagectomy, (e	33	Thoracic Surgery	4
43401	Transection of esophagu	33	Thoracic Surgery	4
44010	Duodenotomy, for explo	33	Thoracic Surgery	4
47010	Hepatotomy; for open di	33	Thoracic Surgery	4
47370	Laparoscopy, surgical, a	33	Thoracic Surgery	4
49062	Drainage of extraperiton	33	Thoracic Surgery	4
50234	Nephrectomy with total u	33	Thoracic Surgery	4
51550	Cystectomy, partial; sim	33	Thoracic Surgery	4
51860	Cystorrhaphy, suture of	33	Thoracic Surgery	4
58180	Supracervical abdomina	33	Thoracic Surgery	4
58925	Ovarian cystectomy, uni	33	Thoracic Surgery	4
60212	Partial thyroid lobectomy	33	Thoracic Surgery	4
60605	Excision of carotid body	33	Thoracic Surgery	4
63685	Insertion or replacement	33	Thoracic Surgery	4
58957	Resection (tumor debulk	33	Thoracic Surgery	4
15110	Epidermal autograft, tru	33	Thoracic Surgery	3
15130	Dermal autograft, trunk,	33	Thoracic Surgery	3
11450	Excision of skin and sub	33	Thoracic Surgery	3
15360	Tissue cultured allogene	33	Thoracic Surgery	3
15757	Free skin flap with micro	33	Thoracic Surgery	3
15940	Excision, ischial pressur	33	Thoracic Surgery	3
15944	Excision, ischial pressur	33	Thoracic Surgery	3
15958	Excision, trochanteric pr	33	Thoracic Surgery	3
22852	Removal of posterior se	33	Thoracic Surgery	3
23101	Arthrotomy, acromioclav	33	Thoracic Surgery	3
23106	Arthrotomy; sternoclavic	33	Thoracic Surgery	3
23470	Arthroplasty, glenohume	33	Thoracic Surgery	3
23615	Open treatment of proxi	33	Thoracic Surgery	3
23670	Open treatment of shoul	33	Thoracic Surgery	3
24077	Radical resection of tum	33	Thoracic Surgery	3
24505	Closed treatment of hun	33	Thoracic Surgery	3
25076	Excision, tumor, soft tiss	33	Thoracic Surgery	3
25447	Arthroplasty, interpositio	33	Thoracic Surgery	3
25900	Amputation, forearm, thi	33	Thoracic Surgery	3
26720	Closed treatment of pha	33	Thoracic Surgery	3
27087	Removal of foreign body	33	Thoracic Surgery	3

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27250	Closed treatment of hip	33	Thoracic Surgery	3
27303	Incision, deep, with open	33	Thoracic Surgery	3
27360	Partial excision (crateriz	33	Thoracic Surgery	3
27488	Removal of prosthesis, i	33	Thoracic Surgery	3
27511	Open treatment of femo	33	Thoracic Surgery	3
27513	Open treatment of femo	33	Thoracic Surgery	3
27614	Biopsy, soft tissue of leg	33	Thoracic Surgery	3
27705	Osteotomy; tibia	33	Thoracic Surgery	3
27759	Treatment of tibial shaft	33	Thoracic Surgery	3
27780	Closed treatment of pro	33	Thoracic Surgery	3
27822	Open treatment of trima	33	Thoracic Surgery	3
27823	Open treatment of trima	33	Thoracic Surgery	3
27888	Amputation, ankle, throu	33	Thoracic Surgery	3
27892	Decompression fascioto	33	Thoracic Surgery	3
28045	Excision, tumor, foot; de	33	Thoracic Surgery	3
28090	Excision of lesion, tend	33	Thoracic Surgery	3
28112	Ostectomy, complete ex	33	Thoracic Surgery	3
28122	Partial excision (crateriz	33	Thoracic Surgery	3
31775	Bronchoplasty; excision	33	Thoracic Surgery	3
33468	Tricuspid valve repositio	33	Thoracic Surgery	3
33610	Repair of complex cardi	33	Thoracic Surgery	3
33732	Repair of cor triatriatum	33	Thoracic Surgery	3
33736	Atrial septectomy or sep	33	Thoracic Surgery	3
33802	Division of aberrant vess	33	Thoracic Surgery	3
33824	Repair of patent ductus	33	Thoracic Surgery	3
33926	Repair of pulmonary arte	33	Thoracic Surgery	3
34451	Thrombectomy, direct o	33	Thoracic Surgery	3
34501	Valvuloplasty, femoral v	33	Thoracic Surgery	3
34520	Cross-over vein graft to	33	Thoracic Surgery	3
35002	Direct repair of aneurysr	33	Thoracic Surgery	3
35111	Direct repair of aneurysr	33	Thoracic Surgery	3
35152	Direct repair of aneurysr	33	Thoracic Surgery	3
35508	Bypass graft, with vein; e	33	Thoracic Surgery	3
35510	Bypass graft, with vein; e	33	Thoracic Surgery	3
35516	Bypass graft, with vein; s	33	Thoracic Surgery	3
35636	Bypass graft, with other	33	Thoracic Surgery	3
38700	Suprahyoid lymphadene	33	Thoracic Surgery	3
38765	Inguinofemoral lymphad	33	Thoracic Surgery	3
39531	Repair, diaphragmatic h	33	Thoracic Surgery	3
43305	Esophagoplasty (plastic	33	Thoracic Surgery	3
43340	Esophagojejunostomy (v	33	Thoracic Surgery	3
43351	Esophagostomy, fistuliza	33	Thoracic Surgery	3
43502	Gastrotomy; with suture	33	Thoracic Surgery	3
43634	Gastrectomy, partial, dis	33	Thoracic Surgery	3
43825	Gastrojejunostomy; with	33	Thoracic Surgery	3
43847	Gastric restrictive proce	33	Thoracic Surgery	3
43848	Revision, open, of gastr	33	Thoracic Surgery	3
44055	Correction of malrotatio	33	Thoracic Surgery	3
44111	Excision of one or more	33	Thoracic Surgery	3
44900	Incision and drainage of	33	Thoracic Surgery	3
45100	Biopsy of anorectal wall,	33	Thoracic Surgery	3
45130	Excision of rectal procid	33	Thoracic Surgery	3

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46045	Incision and drainage of	33	Thoracic Surgery	3
47015	Laparotomy, with aspira	33	Thoracic Surgery	3
47361	Management of liver he	33	Thoracic Surgery	3
47760	Anastomosis, of extrahe	33	Thoracic Surgery	3
48105	Resection or debrideme	33	Thoracic Surgery	3
49582	Repair umbilical hernia,	33	Thoracic Surgery	3
55831	Prostatectomy (including	33	Thoracic Surgery	3
58200	Total abdominal hyster	33	Thoracic Surgery	3
61510	Craniectomy, trephinat	33	Thoracic Surgery	3
63030	Laminotomy (hemilamin	33	Thoracic Surgery	3
63046	Laminectomy, facetecto	33	Thoracic Surgery	3
63056	Transpedicular approach	33	Thoracic Surgery	3
63276	Laminectomy for biopsy	33	Thoracic Surgery	3
63660	Revision or removal of s	33	Thoracic Surgery	3
64708	Neuroplasty, major perip	33	Thoracic Surgery	3
64752	Transection or avulsion	33	Thoracic Surgery	3
64804	Sympathectomy, cervicc	33	Thoracic Surgery	3
67036	Vitreotomy, mechanical,	33	Thoracic Surgery	3
67108	Repair of retinal detach	33	Thoracic Surgery	3
69110	Excision external ear; pa	33	Thoracic Surgery	3
15830	Excision, excessive skin	33	Thoracic Surgery	3
33676	Closure of multiple vent	33	Thoracic Surgery	3
33677	Closure of multiple vent	33	Thoracic Surgery	3
49255	Omentectomy, epiploec	33	Thoracic Surgery	2
11451	Excision of skin and sub	33	Thoracic Surgery	2
11772	Excision of pilonidal cys	33	Thoracic Surgery	2
15200	Full thickness graft, free	33	Thoracic Surgery	2
15220	Full thickness graft, free	33	Thoracic Surgery	2
15335	Acellular dermal allograf	33	Thoracic Surgery	2
15836	Excision, excessive skin	33	Thoracic Surgery	2
15839	Excision, excessive skin	33	Thoracic Surgery	2
15952	Excision, trochanteric pr	33	Thoracic Surgery	2
15953	Excision, trochanteric pr	33	Thoracic Surgery	2
19367	Breast reconstruction wi	33	Thoracic Surgery	2
20693	Adjustment or revision o	33	Thoracic Surgery	2
21015	Radical resection of tum	33	Thoracic Surgery	2
21044	Excision of malignant tu	33	Thoracic Surgery	2
22318	Open treatment and/or r	33	Thoracic Surgery	2
22590	Arthrodesis, posterior te	33	Thoracic Surgery	2
22595	Arthrodesis, posterior te	33	Thoracic Surgery	2
22610	Arthrodesis, posterior or	33	Thoracic Surgery	2
22800	Arthrodesis, posterior, fo	33	Thoracic Surgery	2
23077	Radical resection of tum	33	Thoracic Surgery	2
23190	Ostectomy of scapula, p	33	Thoracic Surgery	2
23650	Closed treatment of sho	33	Thoracic Surgery	2
24516	Treatment of humeral sh	33	Thoracic Surgery	2
24685	Open treatment of ulnar	33	Thoracic Surgery	2
25000	Incision, extensor tendo	33	Thoracic Surgery	2
25031	Incision and drainage, fo	33	Thoracic Surgery	2
25066	Biopsy, soft tissue of fo	33	Thoracic Surgery	2
25545	Open treatment of ulnar	33	Thoracic Surgery	2
26370	Repair or advancement	33	Thoracic Surgery	2

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26591	Repair, intrinsic muscles	33	Thoracic Surgery	2
26607	Closed treatment of met	33	Thoracic Surgery	2
26735	Open treatment of phala	33	Thoracic Surgery	2
26991	Incision and drainage, p	33	Thoracic Surgery	2
27030	Arthrotomy, hip, with dra	33	Thoracic Surgery	2
27041	Biopsy, soft tissue of pe	33	Thoracic Surgery	2
27049	Radical resection of tum	33	Thoracic Surgery	2
27070	Partial excision (crateriz	33	Thoracic Surgery	2
27080	Coccygectomy, primary	33	Thoracic Surgery	2
27137	Revision of total hip arth	33	Thoracic Surgery	2
27140	Osteotomy and transfer	33	Thoracic Surgery	2
27365	Radical resection of tum	33	Thoracic Surgery	2
27535	Open treatment of tibial	33	Thoracic Surgery	2
27604	Incision and drainage, le	33	Thoracic Surgery	2
27607	Incision (eg, osteomyelit	33	Thoracic Surgery	2
27615	Radical resection of tum	33	Thoracic Surgery	2
27640	Partial excision (crateriz	33	Thoracic Surgery	2
27641	Partial excision (crateriz	33	Thoracic Surgery	2
27828	Open treatment of fractu	33	Thoracic Surgery	2
27829	Open treatment of distal	33	Thoracic Surgery	2
28035	Release, tarsal tunnel (p	33	Thoracic Surgery	2
28110	Ostectomy, partial excis	33	Thoracic Surgery	2
28192	Removal of foreign body	33	Thoracic Surgery	2
28193	Removal of foreign body	33	Thoracic Surgery	2
28288	Ostectomy, partial, exos	33	Thoracic Surgery	2
29827	Arthroscopy, shoulder, s	33	Thoracic Surgery	2
31360	Laryngectomy; total, with	33	Thoracic Surgery	2
31800	Suture of tracheal wound	33	Thoracic Surgery	2
31825	Surgical closure tracheo	33	Thoracic Surgery	2
33474	Valvotomy, pulmonary v	33	Thoracic Surgery	2
33602	Closure of semilunar val	33	Thoracic Surgery	2
33619	Repair of single ventricle	33	Thoracic Surgery	2
33665	Repair of intermediate o	33	Thoracic Surgery	2
33670	Repair of complete atrio	33	Thoracic Surgery	2
33697	Complete repair tetralog	33	Thoracic Surgery	2
33710	Repair sinus of Valsalva	33	Thoracic Surgery	2
33722	Closure of aortico-left ve	33	Thoracic Surgery	2
33750	Shunt; subclavian to pul	33	Thoracic Surgery	2
33767	Shunt; superior vena ca	33	Thoracic Surgery	2
33774	Repair of transposition c	33	Thoracic Surgery	2
34510	Venous valve transpositi	33	Thoracic Surgery	2
35180	Repair, congenital arteri	33	Thoracic Surgery	2
35207	Repair blood vessel, dire	33	Thoracic Surgery	2
35526	Bypass graft, with vein; ;	33	Thoracic Surgery	2
35693	Transposition and/or rei	33	Thoracic Surgery	2
37180	Venous anastomosis, op	33	Thoracic Surgery	2
37565	Ligation, internal jugular	33	Thoracic Surgery	2
37600	Ligation; external carotic	33	Thoracic Surgery	2
38115	Repair of ruptured splee	33	Thoracic Surgery	2
41112	Excision of lesion of ton	33	Thoracic Surgery	2
42725	Incision and drainage at	33	Thoracic Surgery	2
43108	Total or near total esoph	33	Thoracic Surgery	2

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43880	Closure of gastrocolic fistula	33	Thoracic Surgery	2
44025	Colotomy, for exploration	33	Thoracic Surgery	2
44660	Closure of enterovesical fistula	33	Thoracic Surgery	2
44680	Intestinal plication (separation)	33	Thoracic Surgery	2
44820	Excision of lesion of mesentery	33	Thoracic Surgery	2
45111	Proctectomy; partial resection	33	Thoracic Surgery	2
45190	Destruction of rectal tumor	33	Thoracic Surgery	2
45541	Proctopexy (eg, for prolapse)	33	Thoracic Surgery	2
46262	Hemorrhoidectomy, internal	33	Thoracic Surgery	2
46280	Surgical treatment of anal fissure	33	Thoracic Surgery	2
47125	Hepatectomy, resection	33	Thoracic Surgery	2
47300	Marsupialization of cyst	33	Thoracic Surgery	2
47380	Ablation, open, of one ovary	33	Thoracic Surgery	2
47785	Anastomosis, Roux-en-Y	33	Thoracic Surgery	2
47900	Suture of extrahepatic biliary	33	Thoracic Surgery	2
48120	Excision of lesion of pancreas	33	Thoracic Surgery	2
48152	Pancreatectomy, proximal	33	Thoracic Surgery	2
48153	Pancreatectomy, proximal	33	Thoracic Surgery	2
48520	Internal anastomosis of jejunum	33	Thoracic Surgery	2
49215	Excision of presacral or coccyx	33	Thoracic Surgery	2
49426	Revision of peritoneal-vascular	33	Thoracic Surgery	2
50650	Ureterectomy, with bladder	33	Thoracic Surgery	2
50820	Ureteroileal conduit (ileal)	33	Thoracic Surgery	2
51040	Cystostomy, cystotomy	33	Thoracic Surgery	2
52601	Transurethral electrosurgical	33	Thoracic Surgery	2
54522	Orchiectomy, partial	33	Thoracic Surgery	2
57250	Posterior colporrhaphy	33	Thoracic Surgery	2
57260	Combined anteroposterior	33	Thoracic Surgery	2
57265	Combined anteroposterior	33	Thoracic Surgery	2
57280	Colpopexy, abdominal approach	33	Thoracic Surgery	2
57305	Closure of rectovaginal fistula	33	Thoracic Surgery	2
58262	Vaginal hysterectomy, for	33	Thoracic Surgery	2
58950	Resection (initial) of ovaries	33	Thoracic Surgery	2
58952	Resection (initial) of ovaries	33	Thoracic Surgery	2
58953	Bilateral salpingo-oophorectomy	33	Thoracic Surgery	2
60254	Thyroidectomy, total or subtotal	33	Thoracic Surgery	2
60650	Laparoscopy, surgical, with	33	Thoracic Surgery	2
63055	Transpedicular approach	33	Thoracic Surgery	2
63064	Costovertebral approach	33	Thoracic Surgery	2
63302	Vertebral corpectomy (vertebral)	33	Thoracic Surgery	2
63688	Revision or removal of intervertebral	33	Thoracic Surgery	2
64704	Neuroplasty; nerve of hand	33	Thoracic Surgery	2
64784	Excision of neuroma; major	33	Thoracic Surgery	2
64792	Excision of neurofibroma; major	33	Thoracic Surgery	2
92986	Percutaneous balloon valvuloplasty	33	Thoracic Surgery	2
45550	Proctopexy (eg, for prolapse)	33	Thoracic Surgery	2
43772	Laparoscopy, surgical, with	33	Thoracic Surgery	2
43887	Gastric restrictive procedure	33	Thoracic Surgery	2
25609	Open treatment of distal esophagus	33	Thoracic Surgery	2
15150	Tissue cultured epidermal grafting	33	Thoracic Surgery	2
44157	Colectomy, total, abdominal	33	Thoracic Surgery	1
44158	Colectomy, total, abdominal	33	Thoracic Surgery	1

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45402	Laparoscopy, surgical; p	33	Thoracic Surgery	1
22010	Incision and drainage, o	33	Thoracic Surgery	1
22015	Incision and drainage, o	33	Thoracic Surgery	1
11462	Excision of skin and sub	33	Thoracic Surgery	1
11470	Excision of skin and sub	33	Thoracic Surgery	1
15170	Acellular dermal replace	33	Thoracic Surgery	1
15300	Allograft skin for tempor	33	Thoracic Surgery	1
15572	Formation of direct or tu	33	Thoracic Surgery	1
15574	Formation of direct or tu	33	Thoracic Surgery	1
15610	Delay of flap or sectionir	33	Thoracic Surgery	1
15933	Excision, sacral pressur	33	Thoracic Surgery	1
15950	Excision, trochanteric pr	33	Thoracic Surgery	1
15951	Excision, trochanteric pr	33	Thoracic Surgery	1
16035	Escharotomy; initial incis	33	Thoracic Surgery	1
17107	Destruction of cutaneous	33	Thoracic Surgery	1
19318	Reduction mammoplasty	33	Thoracic Surgery	1
19328	Removal of intact mamr	33	Thoracic Surgery	1
19350	Nipple/areola reconstruc	33	Thoracic Surgery	1
19357	Breast reconstruction, in	33	Thoracic Surgery	1
19380	Revision of reconstructe	33	Thoracic Surgery	1
20690	Application of a uniplane	33	Thoracic Surgery	1
20902	Bone graft, any donor ar	33	Thoracic Surgery	1
20910	Cartilage graft; costocho	33	Thoracic Surgery	1
21206	Osteotomy, maxilla, seg	33	Thoracic Surgery	1
21820	Closed treatment of ster	33	Thoracic Surgery	1
22110	Partial excision of verteb	33	Thoracic Surgery	1
22112	Partial excision of verteb	33	Thoracic Surgery	1
22224	Osteotomy of spine, incl	33	Thoracic Surgery	1
22802	Arthrodesis, posterior, fo	33	Thoracic Surgery	1
22850	Removal of posterior no	33	Thoracic Surgery	1
23035	Incision, bone cortex (eg	33	Thoracic Surgery	1
23210	Radical resection for tur	33	Thoracic Surgery	1
23331	Removal of foreign body	33	Thoracic Surgery	1
23405	Tenotomy, shoulder are	33	Thoracic Surgery	1
23430	Tenodesis of long tendo	33	Thoracic Surgery	1
23472	Arthroplasty, glenohume	33	Thoracic Surgery	1
23500	Closed treatment of clav	33	Thoracic Surgery	1
23530	Open treatment of stern	33	Thoracic Surgery	1
23550	Open treatment of acror	33	Thoracic Surgery	1
23616	Open treatment of proxim	33	Thoracic Surgery	1
23620	Closed treatment of grea	33	Thoracic Surgery	1
23655	Closed treatment of sho	33	Thoracic Surgery	1
23660	Open treatment of acute	33	Thoracic Surgery	1
24066	Biopsy, soft tissue of up	33	Thoracic Surgery	1
24201	Removal of foreign body	33	Thoracic Surgery	1
24341	Repair, tendon or muscl	33	Thoracic Surgery	1
24535	Closed treatment of sup	33	Thoracic Surgery	1
24545	Open treatment of hume	33	Thoracic Surgery	1
24546	Open treatment of hume	33	Thoracic Surgery	1
24586	Open treatment of peria	33	Thoracic Surgery	1
24665	Open treatment of radia	33	Thoracic Surgery	1
25023	Decompression fasciotom	33	Thoracic Surgery	1

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25024	Decompression fasciotomy	33	Thoracic Surgery	1
25025	Decompression fasciotomy	33	Thoracic Surgery	1
25101	Arthrotomy, wrist joint; with	33	Thoracic Surgery	1
25415	Repair of nonunion or malunion	33	Thoracic Surgery	1
25440	Repair of nonunion, scapula	33	Thoracic Surgery	1
25515	Open treatment of distal radius	33	Thoracic Surgery	1
25575	Open treatment of distal radius	33	Thoracic Surgery	1
25600	Closed treatment of distal radius	33	Thoracic Surgery	1
25606	Percutaneous skeletal fixation	33	Thoracic Surgery	1
25825	Arthrodesis, wrist; with approach	33	Thoracic Surgery	1
25909	Amputation, forearm, through	33	Thoracic Surgery	1
25920	Disarticulation through wrist	33	Thoracic Surgery	1
26034	Incision, bone cortex, hand	33	Thoracic Surgery	1
26080	Arthrotomy, with exploration	33	Thoracic Surgery	1
26110	Arthrotomy with biopsy; hand	33	Thoracic Surgery	1
26116	Excision, tumor or vascular	33	Thoracic Surgery	1
26121	Fasciectomy, palm only; hand	33	Thoracic Surgery	1
26145	Synovectomy, tendon sheath	33	Thoracic Surgery	1
26561	Repair of syndactyly (webbing)	33	Thoracic Surgery	1
26608	Percutaneous skeletal fixation	33	Thoracic Surgery	1
26765	Open treatment of distal radius	33	Thoracic Surgery	1
26770	Closed treatment of interosseous	33	Thoracic Surgery	1
26776	Percutaneous skeletal fixation	33	Thoracic Surgery	1
26860	Arthrodesis, interphalangeal	33	Thoracic Surgery	1
27062	Excision; trochanteric bursa	33	Thoracic Surgery	1
27091	Removal of hip prosthesis	33	Thoracic Surgery	1
27122	Acetabuloplasty; resection	33	Thoracic Surgery	1
27138	Revision of total hip arthroplasty	33	Thoracic Surgery	1
27187	Prophylactic treatment (prevention)	33	Thoracic Surgery	1
27216	Percutaneous skeletal fixation	33	Thoracic Surgery	1
27235	Percutaneous skeletal fixation	33	Thoracic Surgery	1
27252	Closed treatment of hip	33	Thoracic Surgery	1
27305	Fasciotomy, iliotibial (terrace)	33	Thoracic Surgery	1
27310	Arthrotomy, knee, with exploration	33	Thoracic Surgery	1
27330	Arthrotomy, knee; with synovectomy	33	Thoracic Surgery	1
27331	Arthrotomy, knee; including	33	Thoracic Surgery	1
27334	Arthrotomy, with synovectomy	33	Thoracic Surgery	1
27345	Excision of synovial cyst	33	Thoracic Surgery	1
27385	Suture of quadriceps or	33	Thoracic Surgery	1
27438	Arthroplasty, patella; with	33	Thoracic Surgery	1
27472	Repair, nonunion or malunion	33	Thoracic Surgery	1
27496	Decompression fasciotomy	33	Thoracic Surgery	1
27498	Decompression fasciotomy	33	Thoracic Surgery	1
27591	Amputation, thigh, through	33	Thoracic Surgery	1
27656	Repair, fascial defect of	33	Thoracic Surgery	1
27696	Repair, primary, disrupted	33	Thoracic Surgery	1
27720	Repair of nonunion or malunion	33	Thoracic Surgery	1
27724	Repair of nonunion or malunion	33	Thoracic Surgery	1
27758	Open treatment of tibial	33	Thoracic Surgery	1
27762	Closed treatment of medial	33	Thoracic Surgery	1
27786	Closed treatment of distal	33	Thoracic Surgery	1
27788	Closed treatment of distal	33	Thoracic Surgery	1

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27889	Ankle disarticulation	33	Thoracic Surgery	1
27893	Decompression fasciotomy	33	Thoracic Surgery	1
28008	Fasciotomy, foot and/or	33	Thoracic Surgery	1
28043	Excision, tumor, foot; su	33	Thoracic Surgery	1
28054	Arthrotomy with biopsy;	33	Thoracic Surgery	1
28118	Ostectomy, calcaneus;	33	Thoracic Surgery	1
28124	Partial excision (crateriz	33	Thoracic Surgery	1
28140	Metatarsectomy	33	Thoracic Surgery	1
28150	Phalangectomy, toe, ea	33	Thoracic Surgery	1
28173	Radical resection of tum	33	Thoracic Surgery	1
28285	Correction, hammertoe	33	Thoracic Surgery	1
28292	Correction, hallux valgus	33	Thoracic Surgery	1
28400	Closed treatment of calca	33	Thoracic Surgery	1
28415	Open treatment of calca	33	Thoracic Surgery	1
28470	Closed treatment of met	33	Thoracic Surgery	1
28475	Closed treatment of met	33	Thoracic Surgery	1
29824	Arthroscopy, shoulder, s	33	Thoracic Surgery	1
29855	Arthroscopically aided tr	33	Thoracic Surgery	1
29877	Arthroscopy, knee, surg	33	Thoracic Surgery	1
29892	Arthroscopically aided re	33	Thoracic Surgery	1
30520	Septoplasty or submucco	33	Thoracic Surgery	1
31390	Pharyngolaryngectomy,	33	Thoracic Surgery	1
31587	Laryngoplasty, cricoid sp	33	Thoracic Surgery	1
31588	Laryngoplasty, not other	33	Thoracic Surgery	1
31590	Laryngeal reinnervation	33	Thoracic Surgery	1
31611	Construction of tracheoe	33	Thoracic Surgery	1
31755	Tracheoplasty; tracheop	33	Thoracic Surgery	1
33470	Valvotomy, pulmonary v	33	Thoracic Surgery	1
33471	Valvotomy, pulmonary v	33	Thoracic Surgery	1
33503	Repair of anomalous co	33	Thoracic Surgery	1
33506	Repair of anomalous co	33	Thoracic Surgery	1
33606	Anastomosis of pulmona	33	Thoracic Surgery	1
33684	Closure of single ventric	33	Thoracic Surgery	1
33688	Closure of single ventric	33	Thoracic Surgery	1
33690	Banding of pulmonary a	33	Thoracic Surgery	1
33735	Atrial septectomy or sep	33	Thoracic Surgery	1
33762	Shunt; descending aorta	33	Thoracic Surgery	1
33764	Shunt; central, with pros	33	Thoracic Surgery	1
33778	Repair of transposition c	33	Thoracic Surgery	1
33779	Repair of transposition c	33	Thoracic Surgery	1
33813	Obliteration of aortopulm	33	Thoracic Surgery	1
33840	Excision of coarctation c	33	Thoracic Surgery	1
33851	Excision of coarctation c	33	Thoracic Surgery	1
33925	Repair of pulmonary arte	33	Thoracic Surgery	1
34530	Saphenopopliteal vein a	33	Thoracic Surgery	1
35005	Direct repair of aneurysr	33	Thoracic Surgery	1
35022	Direct repair of aneurysr	33	Thoracic Surgery	1
35112	Direct repair of aneurysr	33	Thoracic Surgery	1
35182	Repair, congenital arteri	33	Thoracic Surgery	1
35512	Bypass graft, with vein; s	33	Thoracic Surgery	1
35536	Bypass graft, with vein; s	33	Thoracic Surgery	1
35549	Bypass graft, with vein; s	33	Thoracic Surgery	1

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35691	Transposition and/or rei	33	Thoracic Surgery	1
37140	Venous anastomosis, or	33	Thoracic Surgery	1
37145	Venous anastomosis, or	33	Thoracic Surgery	1
37160	Venous anastomosis, or	33	Thoracic Surgery	1
37606	Ligation; internal or com	33	Thoracic Surgery	1
38101	Splenectomy; partial (se	33	Thoracic Surgery	1
38550	Excision of cystic hygror	33	Thoracic Surgery	1
39503	Repair, neonatal diaphra	33	Thoracic Surgery	1
40510	Excision of lip; transvers	33	Thoracic Surgery	1
40525	Excision of lip; full thickr	33	Thoracic Surgery	1
40814	Excision of lesion of mu	33	Thoracic Surgery	1
41130	Glossectomy; hemigloss	33	Thoracic Surgery	1
42120	Resection of palate or e	33	Thoracic Surgery	1
42600	Closure salivary fistula	33	Thoracic Surgery	1
42844	Radical resection of tons	33	Thoracic Surgery	1
42890	Limited pharyngectomy	33	Thoracic Surgery	1
42894	Resection of pharyngea	33	Thoracic Surgery	1
42950	Pharyngoplasty (plastic	33	Thoracic Surgery	1
42953	Pharyngoesophageal re	33	Thoracic Surgery	1
43116	Partial esophagectomy,	33	Thoracic Surgery	1
43350	Esophagostomy, fistuliza	33	Thoracic Surgery	1
43622	Gastrectomy, total; with	33	Thoracic Surgery	1
43641	Vagotomy including pylc	33	Thoracic Surgery	1
43645	Laparoscopy, surgical, g	33	Thoracic Surgery	1
43651	Laparoscopy, surgical; t	33	Thoracic Surgery	1
43810	Gastroduodenostomy	33	Thoracic Surgery	1
43850	Revision of gastroduode	33	Thoracic Surgery	1
44127	Enterectomy, resection	33	Thoracic Surgery	1
44151	Colectomy, total, abdom	33	Thoracic Surgery	1
44208	Laparoscopy, surgical; c	33	Thoracic Surgery	1
44316	Continent ileostomy (Ko	33	Thoracic Surgery	1
44605	Suture of large intestine	33	Thoracic Surgery	1
44700	Exclusion of small intest	33	Thoracic Surgery	1
44850	Suture of mesentery (se	33	Thoracic Surgery	1
45108	Anorectal myomectomy	33	Thoracic Surgery	1
45112	Proctectomy, combined	33	Thoracic Surgery	1
45135	Excision of rectal proci	33	Thoracic Surgery	1
45160	Excision of rectal tumor	33	Thoracic Surgery	1
45400	Laparoscopy, surgical; p	33	Thoracic Surgery	1
45505	Proctoplasty; for prolaps	33	Thoracic Surgery	1
45805	Closure of rectovesical f	33	Thoracic Surgery	1
46210	Cryptectomy; single	33	Thoracic Surgery	1
46700	Anoplasty, plastic opera	33	Thoracic Surgery	1
46936	Destruction of hemorrh	33	Thoracic Surgery	1
46945	Ligation of internal hemo	33	Thoracic Surgery	1
47122	Hepatectomy, resection	33	Thoracic Surgery	1
47360	Management of liver her	33	Thoracic Surgery	1
47362	Management of liver her	33	Thoracic Surgery	1
47425	Choledochotomy or cho	33	Thoracic Surgery	1
47510	Introduction of percutan	33	Thoracic Surgery	1
47570	Laparoscopy, surgical; c	33	Thoracic Surgery	1
47620	Cholecystectomy with ex	33	Thoracic Surgery	1

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47630	Biliary duct stone extrac	33	Thoracic Surgery	1
47700	Exploration for congenit	33	Thoracic Surgery	1
47711	Excision of bile duct tum	33	Thoracic Surgery	1
47720	Cholecystoenterostomy;	33	Thoracic Surgery	1
48510	External drainage, pseu	33	Thoracic Surgery	1
48540	Internal anastomosis of	33	Thoracic Surgery	1
48545	Pancreatorrhaphy for inj	33	Thoracic Surgery	1
48547	Duodenal exclusion with	33	Thoracic Surgery	1
49419	Insertion of intraperitone	33	Thoracic Surgery	1
49501	Repair initial inguinal he	33	Thoracic Surgery	1
49540	Repair lumbar hernia	33	Thoracic Surgery	1
49555	Repair recurrent femora	33	Thoracic Surgery	1
49557	Repair recurrent femora	33	Thoracic Surgery	1
49600	Repair of small omphalo	33	Thoracic Surgery	1
49605	Repair of large omphalo	33	Thoracic Surgery	1
49606	Repair of large omphalo	33	Thoracic Surgery	1
50020	Drainage of perirenal or	33	Thoracic Surgery	1
50545	Laparoscopy, surgical; r	33	Thoracic Surgery	1
50600	Ureterotomy with explor	33	Thoracic Surgery	1
50605	Ureterotomy for insertio	33	Thoracic Surgery	1
50727	Revision of urinary-cuta	33	Thoracic Surgery	1
50900	Ureterorrhaphy, suture c	33	Thoracic Surgery	1
51045	Cystotomy, with insertio	33	Thoracic Surgery	1
51500	Excision of urachal cyst	33	Thoracic Surgery	1
51525	Cystotomy; for excision	33	Thoracic Surgery	1
51530	Cystotomy; for excision	33	Thoracic Surgery	1
51596	Cystectomy, complete, v	33	Thoracic Surgery	1
54360	Plastic operation on pen	33	Thoracic Surgery	1
54560	Exploration for undesce	33	Thoracic Surgery	1
54640	Orchiopexy, inguinal app	33	Thoracic Surgery	1
55110	Scrotal exploration	33	Thoracic Surgery	1
55150	Resection of scrotum	33	Thoracic Surgery	1
55500	Excision of hydrocele of	33	Thoracic Surgery	1
55540	Excision of varicocele or	33	Thoracic Surgery	1
55866	Laparoscopy, surgical p	33	Thoracic Surgery	1
56620	Vulvectomy simple; part	33	Thoracic Surgery	1
56630	Vulvectomy, radical, par	33	Thoracic Surgery	1
56633	Vulvectomy, radical, cor	33	Thoracic Surgery	1
57010	Colpotomy; with drainag	33	Thoracic Surgery	1
57282	Colpopexy, vaginal; extr	33	Thoracic Surgery	1
58140	Myomectomy, excision c	33	Thoracic Surgery	1
58267	Vaginal hysterectomy, fo	33	Thoracic Surgery	1
58270	Vaginal hysterectomy, fo	33	Thoracic Surgery	1
58280	Vaginal hysterectomy, w	33	Thoracic Surgery	1
58660	Laparoscopy, surgical; v	33	Thoracic Surgery	1
58920	Wedge resection or bise	33	Thoracic Surgery	1
61140	Burr hole(s) or trephine;	33	Thoracic Surgery	1
61154	Burr hole(s) with evacua	33	Thoracic Surgery	1
61312	Craniectomy or cranioto	33	Thoracic Surgery	1
61519	Craniectomy for excision	33	Thoracic Surgery	1
61584	Orbitocranial approach t	33	Thoracic Surgery	1
61608	Resection or excision of	33	Thoracic Surgery	1

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61698	Surgery of complex intra	33	Thoracic Surgery	1	
61700	Surgery of simple intracr	33	Thoracic Surgery	1	
61710	Surgery of aneurysm, va	33	Thoracic Surgery	1	
61886	Insertion or replacement	33	Thoracic Surgery	1	
62005	Elevation of depressed s	33	Thoracic Surgery	1	
62140	Cranioplasty for skull de	33	Thoracic Surgery	1	
62192	Creation of shunt; subar	33	Thoracic Surgery	1	
62256	Removal of complete ce	33	Thoracic Surgery	1	
62360	Implantation or replacen	33	Thoracic Surgery	1	
63001	Laminectomy with explo	33	Thoracic Surgery	1	
63051	Laminoplasty, cervical, v	33	Thoracic Surgery	1	
63265	Laminectomy for excisio	33	Thoracic Surgery	1	
63266	Laminectomy for excisio	33	Thoracic Surgery	1	
63275	Laminectomy for biopsy,	33	Thoracic Surgery	1	
63277	Laminectomy for biopsy,	33	Thoracic Surgery	1	
63303	Vertebral corpectomy (v	33	Thoracic Surgery	1	
64575	Incision for implantation	33	Thoracic Surgery	1	
64718	Neuroplasty and/or trans	33	Thoracic Surgery	1	
64760	Transection or avulsion	33	Thoracic Surgery	1	
64788	Excision of neurofibroma	33	Thoracic Surgery	1	
64790	Excision of neurofibroma	33	Thoracic Surgery	1	
64821	Sympathectomy; radial a	33	Thoracic Surgery	1	
64822	Sympathectomy; ulnar a	33	Thoracic Surgery	1	
64823	Sympathectomy; superfi	33	Thoracic Surgery	1	
64857	Suture of major peripher	33	Thoracic Surgery	1	
64868	Anastomosis; facial-hyp	33	Thoracic Surgery	1	
65860	Severing adhesions of a	33	Thoracic Surgery	1	
69150	Radical excision externa	33	Thoracic Surgery	1	
25608	Open treatment of distal	33	Thoracic Surgery	1	
15135	Dermal autograft, face, s	33	Thoracic Surgery	1	
15155	Tissue cultured epiderm	33	Thoracic Surgery	1	
15175	Acellular dermal replace	33	Thoracic Surgery	1	
50250	Ablation, open, one or m	33	Thoracic Surgery	1	
58958	Resection (tumor debulk	33	Thoracic Surgery	1	
43771	Laparoscopy, surgical, c	33	Thoracic Surgery	1	
43773	Laparoscopy, surgical, c	33	Thoracic Surgery	1	
43774	Laparoscopy, surgical, c	33	Thoracic Surgery	1	
15400	Xenograft, skin (dermal)	33	Thoracic Surgery	1	
43886	Gastric restrictive proce	33	Thoracic Surgery	1	
43888	Gastric restrictive proce	33	Thoracic Surgery	1	
25607	Open treatment of distal	33	Thoracic Surgery	0	
15420	Xenograft skin (dermal),	33	Thoracic Surgery	0	
46710	Repair of ileoanal pouch	33	Thoracic Surgery	0	
46712	Repair of ileoanal pouch	33	Thoracic Surgery	0	
38780	Retroperitoneal transab	33	Thoracic Surgery	0	
64910	Nerve repair; with synthe	33	Thoracic Surgery	0	
64911	Nerve repair; with autog	33	Thoracic Surgery	0	257,844
52601	Transurethral electrosur	34	Urology	52,867	
50590	Lithotripsy, extracorpore	34	Urology	50,529	
53850	Transurethral destructio	34	Urology	34,040	
52648	Laser vaporization of pr	34	Urology	32,226	
57288	Sling operation for stres	34	Urology	25,944	

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55875	Transperineal placement	34	Urology	19,841
55845	Prostatectomy, retropub	34	Urology	12,418
52647	Laser coagulation of pro	34	Urology	10,114
53852	Transurethral destructio	34	Urology	9,032
55866	Laparoscopy, surgical p	34	Urology	8,922
50230	Nephrectomy, including	34	Urology	8,132
57240	Anterior colporrhaphy, re	34	Urology	6,409
51040	Cystostomy, cystotomy v	34	Urology	6,099
52500	Transurethral resection	34	Urology	5,907
50545	Laparoscopy, surgical; r	34	Urology	5,870
55040	Excision of hydrocele; u	34	Urology	5,202
54405	Insertion of multi-compo	34	Urology	4,831
55873	Cryosurgical ablation of	34	Urology	4,736
54520	Orchiectomy, simple (inc	34	Urology	4,084
51595	Cystectomy, complete, v	34	Urology	3,797
55840	Prostatectomy, retropub	34	Urology	3,783
50240	Nephrectomy, partial	34	Urology	3,210
52630	Transurethral resection;	34	Urology	2,996
64581	Incision for implantation	34	Urology	2,826
50081	Percutaneous nephrost	34	Urology	2,609
52640	Transurethral resection;	34	Urology	2,426
53445	Insertion of inflatable ure	34	Urology	2,385
52450	Transurethral incision of	34	Urology	2,274
50546	Laparoscopy, surgical; r	34	Urology	2,203
50220	Nephrectomy, including	34	Urology	2,195
57282	Colpopexy, vaginal; extr	34	Urology	1,941
55821	Prostatectomy (including	34	Urology	1,933
54840	Excision of spermatocele	34	Urology	1,916
50250	Ablation, open, one or m	34	Urology	1,841
49505	Repair initial inguinal he	34	Urology	1,721
57260	Combined anteroposteri	34	Urology	1,523
50548	Laparoscopy, surgical; r	34	Urology	1,507
54410	Removal and replaceme	34	Urology	1,473
54530	Orchiectomy, radical, fo	34	Urology	1,360
50542	Laparoscopy, surgical; a	34	Urology	1,348
51590	Cystectomy, complete, v	34	Urology	1,291
50080	Percutaneous nephrost	34	Urology	1,241
50543	Laparoscopy, surgical; p	34	Urology	1,240
50234	Nephrectomy with total u	34	Urology	1,238
55831	Prostatectomy (including	34	Urology	1,199
51050	Cystolithotomy, cystoto	34	Urology	1,176
77778	Interstitial radiation sour	34	Urology	1,167
50360	Renal allotransplantatio	34	Urology	1,160
53440	Sling operation for corre	34	Urology	1,126
55842	Prostatectomy, retropub	34	Urology	1,115
57250	Posterior colporrhaphy,	34	Urology	1,077
50605	Ureterotomy for insertio	34	Urology	1,047
38770	Pelvic lymphadenectom	34	Urology	1,035
57287	Removal or revision of s	34	Urology	1,013
57284	Paravaginal defect repa	34	Urology	998
50820	Ureteroileal conduit (ilea	34	Urology	893
50236	Nephrectomy with total u	34	Urology	861

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57280	Colpopexy, abdominal a	34	Urology	859
55060	Repair of tunica vaginali	34	Urology	841
55810	Prostatectomy, perineal	34	Urology	841
50780	Ureteroneocystostomy; r	34	Urology	829
51550	Cystectomy, partial; sim	34	Urology	828
52400	Cystourethroscopy with	34	Urology	826
54406	Removal of all compone	34	Urology	818
53446	Removal of inflatable ur	34	Urology	790
57265	Combined anteroposteri	34	Urology	790
52620	Transurethral resection;	34	Urology	778
51596	Cystectomy, complete, v	34	Urology	771
50547	Laparoscopy, surgical; c	34	Urology	699
55110	Scrotal exploration	34	Urology	694
53500	Urethrolisis, transvagina	34	Urology	657
54860	Epididymectomy; unilate	34	Urology	633
55041	Excision of hydrocele; b	34	Urology	633
51840	Anterior vesicourethrope	34	Urology	611
53447	Removal and replaceme	34	Urology	590
51860	Cystorrhaphy, suture of	34	Urology	528
54360	Plastic operation on pen	34	Urology	526
51865	Cystorrhaphy, suture of	34	Urology	515
54120	Amputation of penis; pa	34	Urology	515
52612	Transurethral resection	34	Urology	511
51555	Cystectomy, partial; com	34	Urology	504
51045	Cystotomy, with insertio	34	Urology	503
51800	Cystoplasty or cystouret	34	Urology	464
51597	Pelvic exenteration, com	34	Urology	447
45560	Repair of rectocele (sep	34	Urology	438
52606	Transurethral fulguratio	34	Urology	427
54400	Insertion of penile prosth	34	Urology	421
49000	Exploratory laparotomy,	34	Urology	411
50650	Ureterectomy, with blad	34	Urology	405
49585	Repair umbilical hernia,	34	Urology	397
50715	Ureterolysis, with or with	34	Urology	395
51525	Cystotomy; for excision	34	Urology	395
50785	Ureteroneocystostomy; v	34	Urology	394
44005	Enterolysis (freeing of in	34	Urology	389
58150	Total abdominal hystere	34	Urology	388
51575	Cystectomy, complete; v	34	Urology	357
55150	Resection of scrotum	34	Urology	356
50760	Ureteroureterostomy	34	Urology	349
51845	Abdomino-vaginal vesic	34	Urology	339
77776	Interstitial radiation sour	34	Urology	336
54408	Repair of component(s)	34	Urology	332
50541	Laparoscopy, surgical; a	34	Urology	327
50225	Nephrectomy, including	34	Urology	320
60540	Adrenalectomy, partial c	34	Urology	317
60650	Laparoscopy, surgical, v	34	Urology	293
54415	Removal of non-inflatab	34	Urology	291
55500	Excision of hydrocele of	34	Urology	290
49560	Repair initial incisional o	34	Urology	286
52614	Transurethral resection	34	Urology	285

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58260	Vaginal hysterectomy, fo	34	Urology	277
53410	Urethroplasty, one-stage	34	Urology	275
53215	Urethrectomy, total, incl	34	Urology	272
50544	Laparoscopy, surgical; p	34	Urology	251
38562	Limited lymphadenector	34	Urology	245
55520	Excision of lesion of spe	34	Urology	244
44120	Enterectomy, resection o	34	Urology	239
50400	Pyeloplasty (Foley Y-pye	34	Urology	239
54830	Excision of local lesion o	34	Urology	237
20926	Tissue grafts, other (eg,	34	Urology	209
50205	Renal biopsy; by surgica	34	Urology	209
50280	Excision or unroofing of	34	Urology	209
58548	Laparoscopy, surgical, v	34	Urology	207
53449	Repair of inflatable ureth	34	Urology	204
49010	Exploration, retroperiton	34	Urology	203
53010	Urethrotomy or urethros	34	Urology	202
50370	Removal of transplanted	34	Urology	195
44140	Colectomy, partial; with	34	Urology	190
53450	Urethromeatoplasty, wit	34	Urology	186
55860	Exposure of prostate, ar	34	Urology	186
43830	Gastrostomy, open; with	34	Urology	185
57268	Repair of enterocele, va	34	Urology	184
57120	Colpocleisis (Le Fort ty	34	Urology	183
57283	Colpopexy, vaginal; intra	34	Urology	179
20922	Fascia lata graft; by inci	34	Urology	176
47562	Laparoscopy, surgical; c	34	Urology	174
54411	Removal and replaceme	34	Urology	174
51992	Laparoscopy, surgical; s	34	Urology	172
50825	Continent diversion, incl	34	Urology	170
53230	Excision of urethral dive	34	Urology	164
54416	Removal and replaceme	34	Urology	162
51841	Anterior vesicourethrope	34	Urology	161
35301	Thromboendarterectomy	34	Urology	159
53442	Removal or revision of s	34	Urology	158
51960	Enterocystoplasty, includ	34	Urology	156
13160	Secondary closure of su	34	Urology	153
57106	Vaginectomy, partial ren	34	Urology	150
49520	Repair recurrent inguina	34	Urology	149
44660	Closure of enterovesical	34	Urology	148
54401	Insertion of penile prost	34	Urology	147
55250	Vasectomy, unilateral or	34	Urology	144
49507	Repair initial inguinal he	34	Urology	142
44661	Closure of enterovesical	34	Urology	141
50727	Revision of urinary-cutan	34	Urology	140
57425	Laparoscopy, surgical, c	34	Urology	139
57295	Revision (including reme	34	Urology	139
51880	Closure of cystostomy (s	34	Urology	136
58720	Salpingo-oophorectomy	34	Urology	136
50010	Renal exploration, not n	34	Urology	135
50040	Nephrostomy, nephrotom	34	Urology	135
51570	Cystectomy, complete; (34	Urology	135
54640	Orchiopexy, inguinal app	34	Urology	131

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53444	Insertion of tandem cuff	34	Urology	130
51020	Cystotomy or cystostomy	34	Urology	129
53415	Urethroplasty, transpubic	34	Urology	129
61793	Stereotactic radiosurgery	34	Urology	128
51565	Cystectomy, partial, with	34	Urology	126
54125	Amputation of penis; con	34	Urology	124
54512	Excision of extraparench	34	Urology	124
49002	Reopening of recent lap	34	Urology	122
55175	Scrotoplasty; simple	34	Urology	122
50405	Pyeloplasty (Foley Y-pye	34	Urology	120
38760	Inguinofemoral lymphad	34	Urology	119
27447	Arthroplasty, knee, cond	34	Urology	116
50130	Pyelotomy; with removal	34	Urology	116
44180	Laparoscopy, surgical, e	34	Urology	115
50800	Ureteroenterostomy, dir	34	Urology	114
47600	Cholecystectomy;	34	Urology	113
55530	Excision of varicocele or	34	Urology	109
50320	Donor nephrectomy (inc	34	Urology	108
49650	Laparoscopy, surgical; r	34	Urology	107
53220	Excision or fulguration o	34	Urology	106
53400	Urethroplasty; first stage	34	Urology	106
51530	Cystotomy; for excision	34	Urology	105
51065	Cystotomy, with calculus	34	Urology	104
58940	Oophorectomy, partial o	34	Urology	104
36830	Creation of arteriovenou	34	Urology	102
44143	Colectomy, partial; with	34	Urology	100
44145	Colectomy, partial; with	34	Urology	97
55180	Scrotoplasty; complicat	34	Urology	97
50700	Ureteroplasty, plastic op	34	Urology	94
53210	Urethrectomy, total, incl	34	Urology	94
53430	Urethroplasty, reconstru	34	Urology	93
44314	Revision of ileostomy; co	34	Urology	90
49421	Insertion of intraperitone	34	Urology	90
44160	Colectomy, partial, with	34	Urology	89
44312	Revision of ileostomy; si	34	Urology	89
55120	Removal of foreign body	34	Urology	88
50600	Ureterotomy with explor	34	Urology	87
49900	Suture, secondary, of ab	34	Urology	86
51900	Closure of vesicovagina	34	Urology	86
47563	Laparoscopy, surgical; c	34	Urology	83
36831	Thrombectomy, open, a	34	Urology	82
49020	Drainage of peritoneal a	34	Urology	82
55815	Prostatectomy, perineal	34	Urology	82
49525	Repair inguinal hernia, s	34	Urology	79
50845	Cutaneous appendico-v	34	Urology	78
54440	Plastic operation of peni	34	Urology	78
57320	Closure of vesicovagina	34	Urology	78
50630	Ureterolithotomy; lower	34	Urology	76
50900	Ureterorrhaphy, suture	34	Urology	76
58262	Vaginal hysterectomy, fo	34	Urology	76
49561	Repair initial incisional	34	Urology	75
54861	Epididymectomy; bilater	34	Urology	74

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57270	Repair of enterocele, ab	34	Urology	74
50610	Ureterolithotomy; upper	34	Urology	73
54300	Plastic operation of peni	34	Urology	73
53040	Drainage of deep periur	34	Urology	72
49060	Drainage of retroperiton	34	Urology	70
55600	Vesiculotomy;	34	Urology	70
36821	Arteriovenous anastomc	34	Urology	69
50060	Nephrolithotomy; remov	34	Urology	69
58400	Uterine suspension, with	34	Urology	67
52700	Transurethral drainage c	34	Urology	64
54435	Corpora cavernosa-glan	34	Urology	64
54550	Exploration for undesce	34	Urology	64
57200	Colporrhaphy, suture of	34	Urology	63
36825	Creation of arteriovenou	34	Urology	61
44602	Suture of small intestine	34	Urology	61
38564	Limited lymphadenector	34	Urology	60
51080	Drainage of perivesical c	34	Urology	60
50075	Nephrolithotomy; remov	34	Urology	58
50660	Ureterectomy, total, ecto	34	Urology	58
34825	Placement of proximal c	34	Urology	56
53448	Removal and replaceme	34	Urology	56
54430	Corpora cavernosa-corp	34	Urology	56
53460	Urethromeatoplasty, wit	34	Urology	54
60545	Adrenalectomy, partial c	34	Urology	53
36832	Revision, open, arteriove	34	Urology	52
54110	Excision of penile plaqu	34	Urology	52
34802	Endovascular repair of il	34	Urology	51
27130	Arthroplasty, acetabular	34	Urology	50
50815	Ureterocolon conduit, in	34	Urology	50
58270	Vaginal hysterectomy, fo	34	Urology	50
53520	Closure of urethrostomy	34	Urology	49
50020	Drainage of perirenal or	34	Urology	48
50728	Revision of urinary-cuta	34	Urology	48
51535	Cystotomy for excision,	34	Urology	48
53853	Transurethral destructio	34	Urology	48
53505	Urethrorrhaphy, suture c	34	Urology	47
55650	Vesiculectomy, any app	34	Urology	47
35656	Bypass graft, with other	34	Urology	46
49521	Repair recurrent inguina	34	Urology	46
54112	Excision of penile plaqu	34	Urology	46
38100	Splenectomy; total (sepa	34	Urology	45
50620	Ureterolithotomy; middle	34	Urology	45
58552	Laparoscopy, surgical, v	34	Urology	44
45800	Closure of rectovesical f	34	Urology	44
49587	Repair umbilical hernia,	34	Urology	44
50740	Ureteropyelostomy, ana	34	Urology	44
53431	Urethroplasty with tubula	34	Urology	44
53510	Urethrorrhaphy, suture c	34	Urology	44
50562	Renal endoscopy throug	34	Urology	43
50830	Urinary undiversion (eg,	34	Urology	43
49565	Repair recurrent incisor	34	Urology	42
51585	Cystectomy, complete, v	34	Urology	42

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51980	Cutaneous vesicostomy	34	Urology	42
54115	Removal foreign body fr	34	Urology	42
15430	Acellular xenograft impla	34	Urology	41
40818	Excision of mucosa of v	34	Urology	41
44320	Colostomy or skin level	34	Urology	41
14040	Adjacent tissue transfer	34	Urology	40
50840	Replacement of all or pa	34	Urology	40
50947	Laparoscopy, surgical; u	34	Urology	40
51520	Cystotomy; for simple ex	34	Urology	40
51990	Laparoscopy, surgical; u	34	Urology	40
54522	Orchiectomy, partial	34	Urology	39
36833	Revision, open, arteriove	34	Urology	38
44346	Revision of colostomy; v	34	Urology	37
48554	Transplantation of pancr	34	Urology	37
50860	Ureterostomy, transplan	34	Urology	37
15240	Full thickness graft, free	34	Urology	35
54111	Excision of penile plaqu	34	Urology	35
50380	Renal autotransplantatio	34	Urology	34
15320	Allograft skin for tempor	34	Urology	33
35903	Excision of infected graf	34	Urology	33
54417	Removal and replaceme	34	Urology	33
77777	Interstitial radiation sour	34	Urology	33
34502	Reconstruction of vena c	34	Urology	32
50770	Transureteroureteroston	34	Urology	32
22900	Excision, abdominal wall	34	Urology	31
36819	Arteriovenous anastomc	34	Urology	31
44800	Excision of Meckel's div	34	Urology	31
47100	Biopsy of liver, wedge	34	Urology	31
57210	Colpoperineorrhaphy, su	34	Urology	31
44130	Enteroenterostomy, ana	34	Urology	30
27590	Amputation, thigh, throu	34	Urology	30
35221	Repair blood vessel, dire	34	Urology	30
49566	Repair recurrent incisor	34	Urology	30
51500	Excision of urachal cyst	34	Urology	30
57110	Vaginectomy, complete	34	Urology	30
44205	Laparoscopy, surgical; c	34	Urology	29
53502	Urethrorrhaphy, suture c	34	Urology	29
35585	In-situ vein bypass; fem	34	Urology	28
44604	Suture of large intestine	34	Urology	28
45100	Biopsy of anorectal wall,	34	Urology	28
49402	Removal of peritoneal fo	34	Urology	28
54600	Reduction of torsion of t	34	Urology	28
55720	Prostatotomy, external c	34	Urology	28
15574	Formation of direct or tu	34	Urology	27
44110	Excision of one or more	34	Urology	27
44603	Suture of small intestine	34	Urology	27
53235	Excision of urethral dive	34	Urology	27
57289	Pereyra procedure, inclu	34	Urology	27
36870	Thrombectomy, percuta	34	Urology	27
45126	Pelvic exenteration for c	34	Urology	26
57330	Closure of vesicovagina	34	Urology	26
64713	Neuroplasty, major perip	34	Urology	26

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26990	Incision and drainage, p	34	Urology	25
27236	Open treatment of femo	34	Urology	25
27244	Treatment of intertrocha	34	Urology	25
45562	Exploration, repair, and	34	Urology	25
60500	Parathyroidectomy or ex	34	Urology	25
32480	Removal of lung, other t	34	Urology	25
49323	Laparoscopy, surgical; v	34	Urology	24
53240	Marsupialization of ureth	34	Urology	24
77761	Intracavitary radiation sc	34	Urology	24
58957	Resection (tumor debulk	34	Urology	24
14041	Adjacent tissue transfer	34	Urology	23
20920	Fascia lata graft; by strip	34	Urology	23
27880	Amputation, leg, through	34	Urology	23
35371	Thromboendarterectomy	34	Urology	23
37620	Interruption, partial or c	34	Urology	23
45820	Closure of rectourethral	34	Urology	23
54865	Exploration of epididymi	34	Urology	23
58152	Total abdominal hystere	34	Urology	23
58240	Pelvic exenteration for g	34	Urology	23
44310	Ileostomy or jejunostom	34	Urology	22
55801	Prostatectomy, perineal	34	Urology	22
58740	Lysis of adhesions (salp	34	Urology	22
11470	Excision of skin and sub	34	Urology	21
22554	Arthrodesis, anterior inte	34	Urology	21
22612	Arthrodesis, posterior or	34	Urology	21
44204	Laparoscopy, surgical; c	34	Urology	21
50120	Pyelotomy; with explorat	34	Urology	21
51580	Cystectomy, complete, v	34	Urology	21
57556	Excision of cervical stum	34	Urology	21
58200	Total abdominal hystere	34	Urology	21
58660	Laparoscopy, surgical; v	34	Urology	21
77762	Intracavitary radiation sc	34	Urology	21
35840	Exploration for postoper	34	Urology	20
44141	Colectomy, partial; with	34	Urology	20
51060	Transvesical ureterolitho	34	Urology	20
54680	Transplantation of testis	34	Urology	20
55535	Excision of varicocele or	34	Urology	20
32500	Removal of lung, other t	34	Urology	19
32650	Thoracoscopy, surgical;	34	Urology	19
36818	Arteriovenous anastomc	34	Urology	19
37215	Transcatheter placemer	34	Urology	19
38765	Inguinofemoral lymphad	34	Urology	19
49062	Drainage of extraperiton	34	Urology	19
37607	Ligation or banding of ar	34	Urology	18
44144	Colectomy, partial; with	34	Urology	18
50783	Ureteroneocystostomy; v	34	Urology	18
54670	Suture or repair of testic	34	Urology	18
55540	Excision of varicocele or	34	Urology	18
57310	Closure of urethrovagina	34	Urology	18
63047	Laminectomy, facetecto	34	Urology	18
19307	Mastectomy, modified ra	34	Urology	17
34401	Thrombectomy, direct or	34	Urology	17

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35011	Direct repair of aneurysm	34	Urology	17
44146	Colectomy, partial; with	34	Urology	17
47605	Cholecystectomy; with c	34	Urology	17
48140	Pancreatectomy, distal s	34	Urology	17
50500	Nephrorrhaphy, suture c	34	Urology	17
54660	Insertion of testicular pro	34	Urology	17
55865	Exposure of prostate, ar	34	Urology	17
57311	Closure of urethrovagina	34	Urology	17
58263	Vaginal hysterectomy, fo	34	Urology	17
62000	Elevation of depressed s	34	Urology	17
63075	Discectomy, anterior, wi	34	Urology	17
64722	Decompression; unspec	34	Urology	17
28820	Amputation, toe; metata	34	Urology	16
35583	In-situ vein bypass; fem	34	Urology	16
44050	Reduction of volvulus, ir	34	Urology	16
54535	Orchiectomy, radical, fo	34	Urology	16
63030	Laminotomy (hemilamin	34	Urology	16
35566	Bypass graft, with vein; t	34	Urology	15
35661	Bypass graft, with other	34	Urology	15
46750	Sphincteroplasty, anal, f	34	Urology	15
50945	Laparoscopy, surgical; u	34	Urology	15
53405	Urethroplasty; second st	34	Urology	15
17106	Destruction of cutaneous	34	Urology	14
23412	Repair of ruptured musc	34	Urology	14
44150	Colectomy, total, abdom	34	Urology	14
44300	Placement, enterostomy	34	Urology	14
44970	Laparoscopy, surgical, a	34	Urology	14
46040	Incision and drainage of	34	Urology	14
50135	Pyelotomy; complicated	34	Urology	14
54130	Amputation of penis, rad	34	Urology	14
54304	Plastic operation on pen	34	Urology	14
15420	Xenograft skin (dermal),	34	Urology	14
44187	Laparoscopy, surgical; il	34	Urology	14
38780	Retroperitoneal transab	34	Urology	13
15738	Muscle, myocutaneous,	34	Urology	13
21705	Division of scalenus anti	34	Urology	13
27125	Hemiarthroplasty, hip, p	34	Urology	13
28810	Amputation, metatarsal,	34	Urology	13
44207	Laparoscopy, surgical; c	34	Urology	13
44626	Closure of enterostomy,	34	Urology	13
44950	Appendectomy;	34	Urology	13
47610	Cholecystectomy with ex	34	Urology	13
50340	Recipient nephrectomy (	34	Urology	13
50540	Symphysiotomy for hors	34	Urology	13
50810	Ureterosigmoidostomy,	34	Urology	13
53420	Urethroplasty, two-stage	34	Urology	13
54420	Corpora cavernosa-sapl	34	Urology	13
55200	Vasotomy, cannulization	34	Urology	13
58210	Radical abdominal hyste	34	Urology	13
45110	Proctectomy; complete,	34	Urology	12
15734	Muscle, myocutaneous,	34	Urology	12
35102	Direct repair of aneurysm	34	Urology	12

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35206	Repair blood vessel, dire	34	Urology	12
35701	Exploration (not followe	34	Urology	12
36820	Arteriovenous anastomc	34	Urology	12
37765	Stab phlebectomy of var	34	Urology	12
44202	Laparoscopy, surgical; e	34	Urology	12
44620	Closure of enterostomy,	34	Urology	12
49600	Repair of small omphalc	34	Urology	12
49651	Laparoscopy, surgical; r	34	Urology	12
51820	Cystourethroplasty with	34	Urology	12
54205	Injection procedure for F	34	Urology	12
55400	Vasovasostomy, vasova	34	Urology	12
55812	Prostatectomy, perineal	34	Urology	12
57107	Vaginectomy, partial ren	34	Urology	12
58180	Supracervical abdomina	34	Urology	12
15400	Xenograft, skin (dermal)	34	Urology	11
20662	Application of halo, inclu	34	Urology	11
22630	Arthrodesis, posterior in	34	Urology	11
28805	Amputation, foot; transr	34	Urology	11
34151	Embolectomy or thromb	34	Urology	11
35091	Direct repair of aneurysr	34	Urology	11
35372	Thromboendarterectomy	34	Urology	11
35556	Bypass graft, with vein; t	34	Urology	11
39501	Repair, laceration of dia	34	Urology	11
50045	Nephrotomy, with explor	34	Urology	11
50065	Nephrolithotomy; secon	34	Urology	11
57230	Plastic repair of urethro	34	Urology	11
64575	Incision for implantation	34	Urology	11
22558	Arthrodesis, anterior inte	34	Urology	10
32657	Thoracoscopy, surgical;	34	Urology	10
34803	Endovascular repair of il	34	Urology	10
35081	Direct repair of aneurysr	34	Urology	10
35646	Bypass graft, with other	34	Urology	10
35761	Exploration (not followe	34	Urology	10
43280	Laparoscopy, surgical, e	34	Urology	10
49550	Repair initial femoral he	34	Urology	10
53080	Drainage of perineal urin	34	Urology	10
53515	Urethrorrhaphy, suture c	34	Urology	10
54340	Repair of hypospadias c	34	Urology	10
63685	Insertion or replacement	34	Urology	10
58550	Laparoscopy, surgical, v	34	Urology	10
21600	Excision of rib, partial	34	Urology	9
27245	Treatment of intertrocha	34	Urology	9
36834	Plastic repair of arterio	34	Urology	9
38115	Repair of ruptured splee	34	Urology	9
43632	Gastrectomy, partial, dis	34	Urology	9
44345	Revision of colostomy; c	34	Urology	9
44650	Closure of enteroenteric	34	Urology	9
44700	Exclusion of small intest	34	Urology	9
49590	Repair spigelian hernia	34	Urology	9
50070	Nephrolithotomy; compli	34	Urology	9
50782	Ureteroneocystostomy; s	34	Urology	9
50920	Closure of ureterocutan	34	Urology	9

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54322	One stage distal hyposp	34	Urology	9
54690	Laparoscopy, surgical; c	34	Urology	9
63042	Laminotomy (hemilamin	34	Urology	9
77763	Intracavitary radiation sc	34	Urology	9
44188	Laparoscopy, surgical, c	34	Urology	8
15120	Split-thickness autograft	34	Urology	8
15740	Flap; island pedicle	34	Urology	8
25600	Closed treatment of dist	34	Urology	8
27087	Removal of foreign body	34	Urology	8
35666	Bypass graft, with other	34	Urology	8
38120	Laparoscopy, surgical, s	34	Urology	8
38724	Cervical lymphadenecto	34	Urology	8
45150	Division of stricture of re	34	Urology	8
49040	Drainage of subdiaphrag	34	Urology	8
49500	Repair initial inguinal he	34	Urology	8
50930	Closure of ureteroviscer	34	Urology	8
51920	Closure of vesicouterine	34	Urology	8
54326	One stage distal hyposp	34	Urology	8
56620	Vulvectomy simple; part	34	Urology	8
57010	Colpotomy; with drainag	34	Urology	8
60240	Thyroidectomy, total or c	34	Urology	8
61312	Craniectomy or cranioto	34	Urology	8
64708	Neuroplasty, major perip	34	Urology	8
45395	Laparoscopy, surgical; p	34	Urology	8
15100	Split-thickness autograft	34	Urology	8
15570	Formation of direct or tu	34	Urology	7
23405	Tenotomy, shoulder are	34	Urology	7
27047	Excision, tumor, pelvis a	34	Urology	7
27301	Incision and drainage, d	34	Urology	7
34201	Embolectomy or thromb	34	Urology	7
35351	Thromboendarterectomy	34	Urology	7
35860	Exploration for postoper	34	Urology	7
37618	Ligation, major artery (e	34	Urology	7
44020	Enterotomy, small intest	34	Urology	7
44640	Closure of intestinal cuta	34	Urology	7
46762	Sphincteroplasty, anal, f	34	Urology	7
47120	Hepatectomy, resection	34	Urology	7
50725	Ureterolysis for retrocav	34	Urology	7
51030	Cystotomy or cystostom	34	Urology	7
57111	Vaginectomy, complete	34	Urology	7
57220	Plastic operation on uret	34	Urology	7
58662	Laparoscopy, surgical; v	34	Urology	7
60220	Total thyroid lobectomy,	34	Urology	7
62361	Implantation or replacen	34	Urology	7
63081	Vertebral corpectomy (v	34	Urology	7
63660	Revision or removal of s	34	Urology	7
15830	Excision, excessive skin	34	Urology	7
49255	Omentectomy, epiploect	34	Urology	6
11462	Excision of skin and sub	34	Urology	6
11471	Excision of skin and sub	34	Urology	6
14300	Adjacent tissue transfer	34	Urology	6
19302	Mastectomy, partial (eg,	34	Urology	6

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21930	Excision, tumor, soft tiss	34	Urology	6
25170	Radical resection for tur	34	Urology	6
27041	Biopsy, soft tissue of pe	34	Urology	6
27049	Radical resection of tum	34	Urology	6
34101	Embolectomy or thromb	34	Urology	6
35131	Direct repair of aneurysr	34	Urology	6
35141	Direct repair of aneurysr	34	Urology	6
35226	Repair blood vessel, dire	34	Urology	6
35587	In-situ vein bypass; popl	34	Urology	6
39560	Resection, diaphragm; v	34	Urology	6
42890	Limited pharyngectomy	34	Urology	6
43653	Laparoscopy, surgical; c	34	Urology	6
43832	Gastrostomy, open; with	34	Urology	6
44615	Intestinal stricturoplasty	34	Urology	6
45020	Incision and drainage of	34	Urology	6
46761	Sphincteroplasty, anal, f	34	Urology	6
49553	Repair initial femoral he	34	Urology	6
49904	Omental flap, extra-abdo	34	Urology	6
50125	Pyelotomy; with drainag	34	Urology	6
50290	Excision of perinephric c	34	Urology	6
50948	Laparoscopy, surgical; u	34	Urology	6
54324	One stage distal hyosp	34	Urology	6
55725	Prostatotomy, external c	34	Urology	6
58140	Myomectomy, excision c	34	Urology	6
58700	Salpingectomy, complet	34	Urology	6
58925	Ovarian cystectomy, uni	34	Urology	6
64580	Incision for implantation	34	Urology	6
44227	Laparoscopy, surgical, c	34	Urology	5
15115	Epidermal autograft, fac	34	Urology	5
15200	Full thickness graft, free	34	Urology	5
15330	Acellular dermal allograf	34	Urology	5
15335	Acellular dermal allograf	34	Urology	5
23120	Claviclectomy; partial	34	Urology	5
27065	Excision of bone cyst or	34	Urology	5
32310	Pleurectomy, parietal (s	34	Urology	5
32484	Removal of lung, other t	34	Urology	5
35121	Direct repair of aneurysr	34	Urology	5
43820	Gastrojejunostomy; with	34	Urology	5
43840	Gastrorrhaphy, suture o	34	Urology	5
44125	Enterectomy, resection c	34	Urology	5
46250	Hemorrhoidectomy, exte	34	Urology	5
49250	Umbilectomy, omphalec	34	Urology	5
50520	Closure of nephrocutane	34	Urology	5
50940	Deligation of ureter	34	Urology	5
53250	Excision of bulbourethra	34	Urology	5
54328	One stage distal hyosp	34	Urology	5
61590	Infratemporal pre-auricu	34	Urology	5
62223	Creation of shunt; ventri	34	Urology	5
44625	Closure of enterostomy,	34	Urology	5
58958	Resection (tumor debulk	34	Urology	5
35883	Revision, femoral anasto	34	Urology	4
35884	Revision, femoral anasto	34	Urology	4

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15770	Graft; derma-fat-fascia	34	Urology	4
21501	Incision and drainage, d	34	Urology	4
21615	Excision first and/or cer	34	Urology	4
23130	Acromioplasty or acromi	34	Urology	4
24201	Removal of foreign body	34	Urology	4
25075	Excision, tumor, soft tiss	34	Urology	4
25248	Exploration with remova	34	Urology	4
25605	Closed treatment of dist	34	Urology	4
27048	Excision, tumor, pelvis a	34	Urology	4
27070	Partial excision (crateriz	34	Urology	4
27327	Excision, tumor, thigh or	34	Urology	4
28470	Closed treatment of met	34	Urology	4
29881	Arthroscopy, knee, surg	34	Urology	4
31080	Sinusotomy frontal; oblit	34	Urology	4
32100	Thoracotomy, major; wit	34	Urology	4
33320	Suture repair of aorta or	34	Urology	4
34203	Embolectomy or thromb	34	Urology	4
35082	Direct repair of aneurysr	34	Urology	4
35190	Repair, acquired or trau	34	Urology	4
35286	Repair blood vessel with	34	Urology	4
35355	Thromboendarterectomy	34	Urology	4
35571	Bypass graft, with vein; i	34	Urology	4
35665	Bypass graft, with other	34	Urology	4
35721	Exploration (not followe	34	Urology	4
35876	Thrombectomy of arteria	34	Urology	4
37617	Ligation, major artery (e	34	Urology	4
38542	Dissection, deep jugular	34	Urology	4
38745	Axillary lymphadenectom	34	Urology	4
40819	Excision of frenum, labia	34	Urology	4
42415	Excision of parotid tumo	34	Urology	4
44155	Colectomy, total, abdom	34	Urology	4
44316	Continent ileostomy (Ko	34	Urology	4
44340	Revision of colostomy; s	34	Urology	4
44605	Suture of large intestine	34	Urology	4
44680	Intestinal plication (sepa	34	Urology	4
44820	Excision of lesion of me	34	Urology	4
44960	Appendectomy; for ruptu	34	Urology	4
45111	Proctectomy; partial res	34	Urology	4
45170	Excision of rectal tumor,	34	Urology	4
45400	Laparoscopy, surgical; p	34	Urology	4
45563	Exploration, repair, and	34	Urology	4
46255	Hemorrhoidectomy, inte	34	Urology	4
47564	Laparoscopy, surgical; c	34	Urology	4
48100	Biopsy of pancreas, ope	34	Urology	4
49570	Repair epigastric hernia	34	Urology	4
50365	Renal allotransplantatio	34	Urology	4
53085	Drainage of perineal urir	34	Urology	4
53425	Urethroplasty, two-stage	34	Urology	4
54135	Amputation of penis, rad	34	Urology	4
54332	One stage proximal pen	34	Urology	4
54348	Repair of hypospadias c	34	Urology	4
54560	Exploration for undesce	34	Urology	4

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57109	Vaginectomy, partial re	34	Urology	4
57300	Closure of rectovaginal f	34	Urology	4
57530	Trachelectomy (cerviced	34	Urology	4
58275	Vaginal hysterectomy, w	34	Urology	4
58943	Oophorectomy, partial o	34	Urology	4
58953	Bilateral salpingo-oopho	34	Urology	4
58960	Laparotomy, for staging	34	Urology	4
60210	Partial thyroid lobectomy	34	Urology	4
61154	Burr hole(s) with evacua	34	Urology	4
62355	Removal of previously in	34	Urology	4
63056	Transpedicular approach	34	Urology	4
69310	Reconstruction of exterr	34	Urology	4
15731	Forehead flap with prese	34	Urology	4
14000	Adjacent tissue transfer	34	Urology	3
14001	Adjacent tissue transfer	34	Urology	3
15750	Flap; neurovascular ped	34	Urology	3
19303	Mastectomy, simple, con	34	Urology	3
21555	Excision tumor, soft tiss	34	Urology	3
22850	Removal of posterior no	34	Urology	3
22855	Removal of anterior inst	34	Urology	3
27248	Open treatment of great	34	Urology	3
27446	Arthroplasty, knee, cond	34	Urology	3
27486	Revision of total knee ar	34	Urology	3
27514	Open treatment of femo	34	Urology	3
28606	Percutaneous skeletal fi	34	Urology	3
32095	Thoracotomy, limited, fo	34	Urology	3
32482	Removal of lung, other t	34	Urology	3
32651	Thoracoscopy, surgical;	34	Urology	3
34804	Endovascular repair of il	34	Urology	3
35151	Direct repair of aneurysr	34	Urology	3
35281	Repair blood vessel with	34	Urology	3
35606	Bypass graft, with other	34	Urology	3
35654	Bypass graft, with other	34	Urology	3
35800	Exploration for postoper	34	Urology	3
35875	Thrombectomy of arteria	34	Urology	3
35907	Excision of infected graf	34	Urology	3
37722	Ligation, division, and st	34	Urology	3
37790	Penile venous occlusive	34	Urology	3
38381	Suture and/or ligation of	34	Urology	3
41153	Glossectomy; composite	34	Urology	3
41520	Frenoplasty (surgical rev	34	Urology	3
42950	Pharyngoplasty (plastic	34	Urology	3
43501	Gastrotomy; with suture	34	Urology	3
43611	Excision, local; malignar	34	Urology	3
43631	Gastrectomy, partial, dis	34	Urology	3
43640	Vagotomy including pylc	34	Urology	3
44021	Enterotomy, small intest	34	Urology	3
44055	Correction of malrotatio	34	Urology	3
44186	Laparoscopy, surgical; j	34	Urology	3
44206	Laparoscopy, surgical; c	34	Urology	3
45541	Proctopexy (eg, for prola	34	Urology	3
46700	Anoplasty, plastic opera	34	Urology	3

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47300	Marsupialization of cyst	34	Urology	3
49220	Staging laparotomy for h	34	Urology	3
50525	Closure of nephroviscer	34	Urology	3
50722	Ureterolysis for ovarian	34	Urology	3
55680	Excision of Mullerian du	34	Urology	3
55862	Exposure of prostate, ar	34	Urology	3
57522	Conization of cervix, wit	34	Urology	3
58950	Resection (initial) of ova	34	Urology	3
58954	Bilateral salpingo-oopho	34	Urology	3
60200	Excision of cyst or aden	34	Urology	3
60252	Thyroidectomy, total or s	34	Urology	3
61510	Craniectomy, trephinatic	34	Urology	3
61702	Surgery of simple intracr	34	Urology	3
61703	Surgery of intracranial a	34	Urology	3
62362	Implantation or replacen	34	Urology	3
63688	Revision or removal of in	34	Urology	3
64721	Neuroplasty and/or trans	34	Urology	3
66984	Extracapsular cataract r	34	Urology	3
77750	Infusion or instillation of	34	Urology	3
58542	Laparoscopy, surgical, s	34	Urology	3
57296	Revision (including remo	34	Urology	3
43888	Gastric restrictive proce	34	Urology	3
58541	Laparoscopy, surgical, s	34	Urology	2
15732	Muscle, myocutaneous,	34	Urology	2
44157	Colectomy, total, abdom	34	Urology	2
44158	Colectomy, total, abdom	34	Urology	2
11450	Excision of skin and sub	34	Urology	2
15260	Full thickness graft, free	34	Urology	2
15736	Muscle, myocutaneous,	34	Urology	2
15839	Excision, excessive skin	34	Urology	2
15841	Graft for facial nerve par	34	Urology	2
17107	Destruction of cutaneou	34	Urology	2
19120	Excision of cyst, fibroad	34	Urology	2
19260	Excision of chest wall tu	34	Urology	2
19318	Reduction mammoplast	34	Urology	2
20680	Removal of implant; dee	34	Urology	2
21556	Excision tumor, soft tiss	34	Urology	2
21935	Radical resection of tum	34	Urology	2
22102	Partial excision of poste	34	Urology	2
22600	Arthrodesis, posterior or	34	Urology	2
22830	Exploration of spinal fus	34	Urology	2
23420	Reconstruction of comp	34	Urology	2
23470	Arthroplasty, glenohume	34	Urology	2
23472	Arthroplasty, glenohume	34	Urology	2
24075	Excision, tumor, soft tiss	34	Urology	2
24685	Open treatment of ulnar	34	Urology	2
25332	Arthroplasty, wrist, with	34	Urology	2
26115	Excision, tumor or vascu	34	Urology	2
26160	Excision of lesion of ten	34	Urology	2
26770	Closed treatment of inte	34	Urology	2
27075	Radical resection of tum	34	Urology	2
27487	Revision of total knee ar	34	Urology	2

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27507	Open treatment of femo	34	Urology	2
27530	Closed treatment of tibia	34	Urology	2
27592	Amputation, thigh, throu	34	Urology	2
27596	Amputation, thigh, throu	34	Urology	2
27603	Incision and drainage, le	34	Urology	2
27750	Closed treatment of tibia	34	Urology	2
27882	Amputation, leg, through	34	Urology	2
27886	Amputation, leg, through	34	Urology	2
29880	Arthroscopy, knee, surg	34	Urology	2
31580	Laryngoplasty; for laryng	34	Urology	2
31785	Excision of tracheal tum	34	Urology	2
32124	Thoracotomy, major; wit	34	Urology	2
32141	Thoracotomy, major; wit	34	Urology	2
32320	Decortication and pariet	34	Urology	2
32440	Removal of lung, total p	34	Urology	2
32662	Thoracoscopy, surgical;	34	Urology	2
32663	Thoracoscopy, surgical;	34	Urology	2
33025	Creation of pericardial w	34	Urology	2
33533	Coronary artery bypass,	34	Urology	2
34451	Thrombectomy, direct o	34	Urology	2
34510	Venous valve transposit	34	Urology	2
34805	Endovascular repair of il	34	Urology	2
35013	Direct repair of aneurysr	34	Urology	2
35256	Repair blood vessel with	34	Urology	2
35331	Thromboendarterectomy	34	Urology	2
35341	Thromboendarterectomy	34	Urology	2
35558	Bypass graft, with vein; f	34	Urology	2
35621	Bypass graft, with other	34	Urology	2
35631	Bypass graft, with other	34	Urology	2
35637	Bypass graft, with other	34	Urology	2
35638	Bypass graft, with other	34	Urology	2
35671	Bypass graft, with other	34	Urology	2
35881	Revision, lower extremit	34	Urology	2
37650	Ligation of femoral vein	34	Urology	2
37788	Penile revascularization	34	Urology	2
38101	Splenectomy; partial (se	34	Urology	2
38525	Biopsy or excision of lym	34	Urology	2
38720	Cervical lymphadenecto	34	Urology	2
39220	Excision of mediastinal t	34	Urology	2
39502	Repair, paraesophageal	34	Urology	2
41120	Glossectomy; less than	34	Urology	2
42120	Resection of palate or e	34	Urology	2
42440	Excision of submandibu	34	Urology	2
42953	Pharyngoesophageal re	34	Urology	2
43117	Partial esophagectomy,	34	Urology	2
43124	Total or partial esophag	34	Urology	2
43610	Excision, local; ulcer or l	34	Urology	2
43633	Gastrectomy, partial, dis	34	Urology	2
43800	Pyloroplasty	34	Urology	2
43870	Closure of gastrostomy,	34	Urology	2
44025	Colotomy, for exploratio	34	Urology	2
44111	Excision of one or more	34	Urology	2

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44147	Colectomy, partial; abdo	34	Urology	2
44208	Laparoscopy, surgical; c	34	Urology	2
45113	Proctectomy, partial, wit	34	Urology	2
45130	Excision of rectal procid	34	Urology	2
45805	Closure of rectovesical f	34	Urology	2
46045	Incision and drainage of	34	Urology	2
46260	Hemorrhoidectomy, inte	34	Urology	2
47010	Hepatotomy; for open dr	34	Urology	2
47015	Laparotomy, with aspira	34	Urology	2
47420	Choledochotomy or cho	34	Urology	2
47460	Transduodenal sphincte	34	Urology	2
47720	Cholecystoenterostomy;	34	Urology	2
48120	Excision of lesion of par	34	Urology	2
48540	Internal anastomosis of	34	Urology	2
48556	Removal of transplanted	34	Urology	2
49540	Repair lumbar hernia	34	Urology	2
50100	Transection or repositio	34	Urology	2
50750	Ureterocalycostomy, ana	34	Urology	2
51940	Closure, exstrophy of bl	34	Urology	2
54316	Urethroplasty for second	34	Urology	2
54344	Repair of hypospadias c	34	Urology	2
54352	Repair of hypospadias c	34	Urology	2
54650	Orchiopexy, abdominal	34	Urology	2
54692	Laparoscopy, surgical; c	34	Urology	2
56625	Vulvectomy simple; com	34	Urology	2
56630	Vulvectomy, radical, par	34	Urology	2
57305	Closure of rectovaginal f	34	Urology	2
57308	Closure of rectovaginal f	34	Urology	2
57550	Excision of cervical stum	34	Urology	2
57555	Excision of cervical stum	34	Urology	2
58267	Vaginal hysterectomy, fo	34	Urology	2
58294	Vaginal hysterectomy, fo	34	Urology	2
58952	Resection (initial) of ova	34	Urology	2
60505	Parathyroidectomy or ex	34	Urology	2
61313	Craniectomy or cranioto	34	Urology	2
61700	Surgery of simple intrac	34	Urology	2
61705	Surgery of aneurysm, va	34	Urology	2
61885	Insertion or replacement	34	Urology	2
63267	Laminectomy for excisio	34	Urology	2
63275	Laminectomy for biopsy	34	Urology	2
63276	Laminectomy for biopsy	34	Urology	2
64573	Incision for implantation	34	Urology	2
64726	Decompression; plantar	34	Urology	2
64771	Transection or avulsion	34	Urology	2
64774	Excision of neuroma; cu	34	Urology	2
64788	Excision of neurofibroma	34	Urology	2
43886	Gastric restrictive proce	34	Urology	2
43887	Gastric restrictive proce	34	Urology	2
32503	Resection of apical lung	34	Urology	1
58554	Laparoscopy, surgical, v	34	Urology	1
35302	Thromboendarterectomy	34	Urology	1
35303	Thromboendarterectomy	34	Urology	1

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35304	Thromboendarterectomy	34	Urology	1
35305	Thromboendarterectomy	34	Urology	1
45402	Laparoscopy, surgical; p	34	Urology	1
15175	Acellular dermal replace	34	Urology	1
46712	Repair of ileoanal pouch	34	Urology	1
25609	Open treatment of distal	34	Urology	1
11451	Excision of skin and sub	34	Urology	1
11771	Excision of pilonidal cys	34	Urology	1
15300	Allograft skin for tempor	34	Urology	1
15650	Transfer, intermediate, c	34	Urology	1
15757	Free skin flap with micro	34	Urology	1
15760	Graft; composite (eg, ful	34	Urology	1
15838	Excision, excessive skin	34	Urology	1
15936	Excision, sacral pressur	34	Urology	1
17108	Destruction of cutaneous	34	Urology	1
19125	Excision of breast lesior	34	Urology	1
19300	Mastectomy for gynecor	34	Urology	1
19301	Mastectomy, partial (eg,	34	Urology	1
19304	Mastectomy, subcutane	34	Urology	1
19330	Removal of mammary in	34	Urology	1
21196	Reconstruction of mand	34	Urology	1
21208	Osteoplasty, facial bone	34	Urology	1
21246	Reconstruction of mand	34	Urology	1
21340	Percutaneous treatment	34	Urology	1
21557	Radical resection of tum	34	Urology	1
21925	Biopsy, soft tissue of ba	34	Urology	1
22015	Incision and drainage, o	34	Urology	1
22100	Partial excision of poste	34	Urology	1
22214	Osteotomy of spine, pos	34	Urology	1
22310	Closed treatment of vert	34	Urology	1
22852	Removal of posterior se	34	Urology	1
23105	Arthrotomy; glenohumer	34	Urology	1
23430	Tenodesis of long tendo	34	Urology	1
23600	Closed treatment of prox	34	Urology	1
23655	Closed treatment of sho	34	Urology	1
24500	Closed treatment of hum	34	Urology	1
24586	Open treatment of peria	34	Urology	1
24655	Closed treatment of radi	34	Urology	1
24665	Open treatment of radia	34	Urology	1
24670	Closed treatment of ulna	34	Urology	1
24900	Amputation, arm througl	34	Urology	1
25000	Incision, extensor tendo	34	Urology	1
25028	Incision and drainage, fo	34	Urology	1
25101	Arthrotomy, wrist joint; w	34	Urology	1
25111	Excision of ganglion, wri	34	Urology	1
25500	Closed treatment of radi	34	Urology	1
25515	Open treatment of radia	34	Urology	1
25560	Closed treatment of radi	34	Urology	1
25565	Closed treatment of radi	34	Urology	1
25622	Closed treatment of carp	34	Urology	1
26055	Tendon sheath incision	34	Urology	1
26116	Excision, tumor or vascu	34	Urology	1

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26415	Excision of extensor ten	34	Urology	1
26600	Closed treatment of met	34	Urology	1
26740	Closed treatment of artic	34	Urology	1
26750	Closed treatment of dist	34	Urology	1
27071	Partial excision (crateriz	34	Urology	1
27132	Conversion of previous l	34	Urology	1
27134	Revision of total hip arth	34	Urology	1
27187	Prophylactic treatment (	34	Urology	1
27220	Closed treatment of ace	34	Urology	1
27230	Closed treatment of fem	34	Urology	1
27238	Closed treatment of inte	34	Urology	1
27305	Fasciotomy, iliotibial (ter	34	Urology	1
27331	Arthrotomy, knee; includ	34	Urology	1
27372	Removal of foreign body	34	Urology	1
27380	Suture of infrapatellar te	34	Urology	1
27403	Arthrotomy with meniscu	34	Urology	1
27418	Anterior tibial tuberclepl	34	Urology	1
27488	Removal of prosthesis, i	34	Urology	1
27511	Open treatment of femo	34	Urology	1
27524	Open treatment of patell	34	Urology	1
27598	Disarticulation at knee	34	Urology	1
27602	Decompression fascioto	34	Urology	1
27615	Radical resection of tum	34	Urology	1
27780	Closed treatment of pro	34	Urology	1
27786	Closed treatment of dist	34	Urology	1
27810	Closed treatment of bim	34	Urology	1
27822	Open treatment of trima	34	Urology	1
28072	Synovectomy; metatars	34	Urology	1
28090	Excision of lesion, tend	34	Urology	1
28111	Ostectomy, complete ex	34	Urology	1
28113	Ostectomy, complete ex	34	Urology	1
28153	Resection, condyle(s), d	34	Urology	1
28160	Hemiphalangectomy or	34	Urology	1
28285	Correction, hammertoe	34	Urology	1
28400	Closed treatment of calc	34	Urology	1
28675	Open treatment of interp	34	Urology	1
28755	Arthrodesis, great toe; ir	34	Urology	1
28800	Amputation, foot; midtar	34	Urology	1
28825	Amputation, toe; interph	34	Urology	1
29820	Arthroscopy, shoulder, s	34	Urology	1
29823	Arthroscopy, shoulder, s	34	Urology	1
29826	Arthroscopy, shoulder, s	34	Urology	1
29874	Arthroscopy, knee, surg	34	Urology	1
29876	Arthroscopy, knee, surg	34	Urology	1
29877	Arthroscopy, knee, surg	34	Urology	1
31225	Maxillectomy; without or	34	Urology	1
31300	Laryngotomy (thyrotomy	34	Urology	1
31390	Pharyngolaryngectomy,	34	Urology	1
31395	Pharyngolaryngectomy,	34	Urology	1
31610	Tracheostomy, fenestra	34	Urology	1
31613	Tracheostoma revision;	34	Urology	1
31755	Tracheoplasty; tracheop	34	Urology	1

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31780	Excision tracheal stenosis	34	Urology	1
32036	Thoracostomy; with open	34	Urology	1
32402	Biopsy, pleura; open	34	Urology	1
32445	Removal of lung, total	34	Urology	1
32652	Thoracoscopy, surgical;	34	Urology	1
32653	Thoracoscopy, surgical;	34	Urology	1
32655	Thoracoscopy, surgical;	34	Urology	1
32656	Thoracoscopy, surgical;	34	Urology	1
32659	Thoracoscopy, surgical;	34	Urology	1
32820	Major reconstruction, chest	34	Urology	1
33207	Insertion or replacement	34	Urology	1
33405	Replacement, aortic valve	34	Urology	1
33410	Replacement, aortic valve	34	Urology	1
33463	Valvuloplasty, tricuspid valve	34	Urology	1
33641	Repair atrial septal defect	34	Urology	1
33945	Heart transplant, with or	34	Urology	1
34421	Thrombectomy, direct or	34	Urology	1
34471	Thrombectomy, direct or	34	Urology	1
34830	Open repair of infrarenal	34	Urology	1
35001	Direct repair of aneurysm	34	Urology	1
35045	Direct repair of aneurysm	34	Urology	1
35103	Direct repair of aneurysm	34	Urology	1
35111	Direct repair of aneurysm	34	Urology	1
35142	Direct repair of aneurysm	34	Urology	1
35251	Repair blood vessel with	34	Urology	1
35321	Thromboendarterectomy	34	Urology	1
35501	Bypass graft, with vein; e	34	Urology	1
35506	Bypass graft, with vein; e	34	Urology	1
35521	Bypass graft, with vein; e	34	Urology	1
35525	Bypass graft, with vein; e	34	Urology	1
35560	Bypass graft, with vein; e	34	Urology	1
35565	Bypass graft, with vein; e	34	Urology	1
35612	Bypass graft, with other	34	Urology	1
35647	Bypass graft, with other	34	Urology	1
35741	Exploration (not followed	34	Urology	1
35901	Excision of infected graft	34	Urology	1
36838	Distal revascularization	34	Urology	1
37600	Ligation; external carotid	34	Urology	1
37660	Ligation of common iliac	34	Urology	1
37700	Ligation and division of il	34	Urology	1
38700	Suprahyoid lymphadenec	34	Urology	1
38740	Axillary lymphadenectomy	34	Urology	1
39000	Mediastinotomy with exp	34	Urology	1
39010	Mediastinotomy with exp	34	Urology	1
39561	Resection, diaphragm; v	34	Urology	1
40840	Vestibuloplasty; anterior	34	Urology	1
41018	Extraoral incision and dr	34	Urology	1
42425	Excision of parotid tumor	34	Urology	1
42815	Excision branchial cleft c	34	Urology	1
43112	Total or near total esoph	34	Urology	1
43122	Partial esophagectomy,	34	Urology	1
43135	Diverticulectomy of hypc	34	Urology	1

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43324	Esophagogastric fundop	34	Urology	1
43405	Ligation or stapling at ga	34	Urology	1
43415	Suture of esophageal we	34	Urology	1
43500	Gastrotomy; with explor	34	Urology	1
43605	Biopsy of stomach; by la	34	Urology	1
43634	Gastrectomy, partial, dis	34	Urology	1
43825	Gastrojejunostomy; with	34	Urology	1
44010	Duodenotomy, for explo	34	Urology	1
44156	Colectomy, total, abdom	34	Urology	1
44850	Suture of mesentery (se	34	Urology	1
45000	Transrectal drainage of	34	Urology	1
45112	Proctectomy, combined	34	Urology	1
45505	Proctoplasty; for prolaps	34	Urology	1
46200	Fissurectomy, with or wi	34	Urology	1
46740	Repair of high imperfora	34	Urology	1
47350	Management of liver he	34	Urology	1
47360	Management of liver he	34	Urology	1
47380	Ablation, open, of one o	34	Urology	1
47612	Cholecystectomy with ex	34	Urology	1
47780	Anastomosis, Roux-en- ^Y	34	Urology	1
48155	Pancreatectomy, total	34	Urology	1
48545	Pancreatorrhaphy for inj	34	Urology	1
48548	Pancreaticojejunostomy	34	Urology	1
49215	Excision of presacral or	34	Urology	1
49501	Repair initial inguinal he	34	Urology	1
49555	Repair recurrent femora	34	Urology	1
49557	Repair recurrent femora	34	Urology	1
49572	Repair epigastric hernia	34	Urology	1
49610	Repair of omphalocele (	34	Urology	1
54901	Epididymovasostomy, a	34	Urology	1
55550	Laparoscopy, surgical, v	34	Urology	1
56632	Vulvectomy, radical, par	34	Urology	1
56633	Vulvectomy, radical, cor	34	Urology	1
57155	Insertion of uterine tande	34	Urology	1
57291	Construction of artificial	34	Urology	1
57520	Conization of cervix, wit	34	Urology	1
57531	Radical trachelectomy, v	34	Urology	1
57720	Trachelorrhaphy, plastic	34	Urology	1
58146	Myomectomy, excision o	34	Urology	1
58290	Vaginal hysterectomy, fo	34	Urology	1
58292	Vaginal hysterectomy, fo	34	Urology	1
58293	Vaginal hysterectomy, fo	34	Urology	1
58671	Laparoscopy, surgical; v	34	Urology	1
58900	Biopsy of ovary, unilater	34	Urology	1
58951	Resection (initial) of ova	34	Urology	1
58956	Bilateral salpingo-oopho	34	Urology	1
60254	Thyroidectomy, total or s	34	Urology	1
60271	Thyroidectomy, including	34	Urology	1
60520	Thymectomy, partial or t	34	Urology	1
61512	Craniectomy, trephinatio	34	Urology	1
61519	Craniectomy for excision	34	Urology	1
61575	Transoral approach to s	34	Urology	1

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61581	Craniofacial approach to	34	Urology	1	
61595	Transtemporal approach	34	Urology	1	
61600	Resection or excision of	34	Urology	1	
61605	Resection or excision of	34	Urology	1	
61606	Resection or excision of	34	Urology	1	
61607	Resection or excision of	34	Urology	1	
61720	Creation of lesion by ste	34	Urology	1	
62005	Elevation of depressed s	34	Urology	1	
62145	Cranioplasty for skull de	34	Urology	1	
62146	Cranioplasty with autogr	34	Urology	1	
62192	Creation of shunt; subar	34	Urology	1	
62256	Removal of complete ce	34	Urology	1	
62351	Implantation, revision or	34	Urology	1	
62360	Implantation or replacen	34	Urology	1	
63001	Laminectomy with explo	34	Urology	1	
63012	Laminectomy with remo	34	Urology	1	
63045	Laminectomy, facetecto	34	Urology	1	
63090	Vertebral corpectomy (v	34	Urology	1	
63180	Laminectomy and sectic	34	Urology	1	
63707	Repair of dural/cerebro	34	Urology	1	
63710	Dural graft, spinal	34	Urology	1	
64761	Transection or avulsion	34	Urology	1	
64772	Transection or avulsion	34	Urology	1	
67040	Vitrectomy, mechanical,	34	Urology	1	
67112	Repair of retinal detach	34	Urology	1	
68325	Conjunctivoplasty; with	34	Urology	1	
43770	Laparoscopy, surgical, c	34	Urology	1	
43774	Laparoscopy, surgical, c	34	Urology	1	
32504	Resection of apical lung	34	Urology	1	
45550	Proctopexy (eg, for prol	34	Urology	1	
25608	Open treatment of distal	34	Urology	1	
58544	Laparoscopy, surgical, s	34	Urology	1	
35539	Bypass graft, with vein; s	34	Urology	1	
35540	Bypass graft, with vein; s	34	Urology	1	
25607	Open treatment of distal	34	Urology	0	
15135	Dermal autograft, face, s	34	Urology	0	
15155	Tissue cultured epiderm	34	Urology	0	
15110	Epidermal autograft, tru	34	Urology	0	
15130	Dermal autograft, trunk,	34	Urology	0	
46710	Repair of ileoanal pouch	34	Urology	0	
25109	Excision of tendon, fore	34	Urology	0	
15150	Tissue cultured epiderm	34	Urology	0	
64910	Nerve repair; with synthe	34	Urology	0	
64911	Nerve repair; with autog	34	Urology	0	423,474
35301	Thromboendarterectomy	77	Vascular Surgery	28,430	
36821	Arteriovenous anastom	77	Vascular Surgery	12,184	
36830	Creation of arteriovenou	77	Vascular Surgery	11,120	
37620	Interruption, partial or c	77	Vascular Surgery	9,740	
34802	Endovascular repair of i	77	Vascular Surgery	6,995	
34825	Placement of proximal c	77	Vascular Surgery	5,989	
27590	Amputation, thigh, throu	77	Vascular Surgery	5,280	
35656	Bypass graft, with other	77	Vascular Surgery	5,233	

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36832	Revision, open, arteriovenous	77	Vascular Surgery	5,093
36831	Thrombectomy, open, arterial	77	Vascular Surgery	5,067
36819	Arteriovenous anastomosis	77	Vascular Surgery	4,496
36833	Revision, open, arteriovenous	77	Vascular Surgery	4,306
27880	Amputation, leg, through	77	Vascular Surgery	4,215
35371	Thromboendarterectomy	77	Vascular Surgery	4,103
28810	Amputation, metatarsal, distal	77	Vascular Surgery	3,862
35903	Excision of infected graft	77	Vascular Surgery	3,708
37607	Ligation or banding of artery	77	Vascular Surgery	3,453
34201	Embolectomy or thrombectomy	77	Vascular Surgery	3,267
34803	Endovascular repair of iliofemoral	77	Vascular Surgery	2,987
35566	Bypass graft, with vein; femoral	77	Vascular Surgery	2,854
28820	Amputation, toe; metatarsal	77	Vascular Surgery	2,813
47562	Laparoscopy, surgical; distal	77	Vascular Surgery	2,600
35556	Bypass graft, with vein; femoral	77	Vascular Surgery	2,559
35081	Direct repair of aneurysm	77	Vascular Surgery	2,508
37765	Stab phlebectomy of varicose	77	Vascular Surgery	2,398
35372	Thromboendarterectomy	77	Vascular Surgery	2,384
36870	Thrombectomy, percutaneous	77	Vascular Surgery	2,293
35661	Bypass graft, with other	77	Vascular Surgery	2,256
36818	Arteriovenous anastomosis	77	Vascular Surgery	2,207
49505	Repair initial inguinal hernia	77	Vascular Surgery	1,952
35102	Direct repair of aneurysm	77	Vascular Surgery	1,881
33533	Coronary artery bypass, arterial	77	Vascular Surgery	1,873
35571	Bypass graft, with vein; femoral	77	Vascular Surgery	1,693
36825	Creation of arteriovenous	77	Vascular Surgery	1,677
35646	Bypass graft, with other	77	Vascular Surgery	1,641
35860	Exploration for postoperative	77	Vascular Surgery	1,637
37215	Transcatheter placement	77	Vascular Surgery	1,592
35585	In-situ vein bypass; femoral	77	Vascular Surgery	1,541
35141	Direct repair of aneurysm	77	Vascular Surgery	1,540
28805	Amputation, foot; transmetatarsal	77	Vascular Surgery	1,480
28825	Amputation, toe; interphalangeal	77	Vascular Surgery	1,466
37766	Stab phlebectomy of varicose	77	Vascular Surgery	1,454
34203	Embolectomy or thrombectomy	77	Vascular Surgery	1,441
35226	Repair blood vessel, direct	77	Vascular Surgery	1,424
35875	Thrombectomy of arterial	77	Vascular Surgery	1,411
35666	Bypass graft, with other	77	Vascular Surgery	1,360
15430	Acellular xenograft implantation	77	Vascular Surgery	1,346
33208	Insertion or replacement	77	Vascular Surgery	1,316
35583	In-situ vein bypass; femoral	77	Vascular Surgery	1,305
49421	Insertion of intraperitoneal	77	Vascular Surgery	1,274
35355	Thromboendarterectomy	77	Vascular Surgery	1,266
35665	Bypass graft, with other	77	Vascular Surgery	1,076
34101	Embolectomy or thrombectomy	77	Vascular Surgery	1,056
47563	Laparoscopy, surgical; distal	77	Vascular Surgery	1,038
35761	Exploration (not followed)	77	Vascular Surgery	957
37785	Ligation, division, and/or	77	Vascular Surgery	954
49560	Repair initial incisional hernia	77	Vascular Surgery	927
44140	Colectomy, partial; with	77	Vascular Surgery	919
35876	Thrombectomy of arterial	77	Vascular Surgery	913
35091	Direct repair of aneurysm	77	Vascular Surgery	872

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15100	Split-thickness autograft	77	Vascular Surgery	841
27602	Decompression fasciotomy	77	Vascular Surgery	831
35082	Direct repair of aneurysm	77	Vascular Surgery	788
44120	Enterectomy, resection of	77	Vascular Surgery	754
37722	Ligation, division, and st	77	Vascular Surgery	731
36820	Arteriovenous anastomosis	77	Vascular Surgery	724
47600	Cholecystectomy;	77	Vascular Surgery	724
35631	Bypass graft, with other	77	Vascular Surgery	719
35206	Repair blood vessel, dire	77	Vascular Surgery	651
35654	Bypass graft, with other	77	Vascular Surgery	642
22558	Arthrodesis, anterior inte	77	Vascular Surgery	624
33881	Endovascular repair of c	77	Vascular Surgery	621
35879	Revision, lower extremity	77	Vascular Surgery	605
37700	Ligation and division of l	77	Vascular Surgery	600
35151	Direct repair of aneurysm	77	Vascular Surgery	577
36834	Plastic repair of arteriove	77	Vascular Surgery	576
33405	Replacement, aortic valv	77	Vascular Surgery	556
37760	Ligation of perforator ve	77	Vascular Surgery	549
44005	Enterolysis (freeing of in	77	Vascular Surgery	520
49585	Repair umbilical hernia,	77	Vascular Surgery	520
19125	Excision of breast lesion	77	Vascular Surgery	474
35011	Direct repair of aneurysm	77	Vascular Surgery	471
27301	Incision and drainage, d	77	Vascular Surgery	468
34804	Endovascular repair of il	77	Vascular Surgery	468
44160	Colectomy, partial, with	77	Vascular Surgery	465
35351	Thromboendarterectomy	77	Vascular Surgery	459
27882	Amputation, leg, through	77	Vascular Surgery	450
19120	Excision of cyst, fibroad	77	Vascular Surgery	443
35256	Repair blood vessel with	77	Vascular Surgery	442
34900	Endovascular graft place	77	Vascular Surgery	441
33207	Insertion or replacement	77	Vascular Surgery	437
44143	Colectomy, partial; with	77	Vascular Surgery	429
32480	Removal of lung, other t	77	Vascular Surgery	426
33877	Repair of thoracoabdom	77	Vascular Surgery	426
35800	Exploration for postoper	77	Vascular Surgery	425
35286	Repair blood vessel with	77	Vascular Surgery	424
49000	Exploratory laparotomy,	77	Vascular Surgery	422
35190	Repair, acquired or trau	77	Vascular Surgery	419
35621	Bypass graft, with other	77	Vascular Surgery	413
27886	Amputation, leg, through	77	Vascular Surgery	410
13160	Secondary closure of su	77	Vascular Surgery	408
50360	Renal allotransplantation	77	Vascular Surgery	407
35881	Revision, lower extremity	77	Vascular Surgery	399
35721	Exploration (not followe	77	Vascular Surgery	396
49561	Repair initial incisional o	77	Vascular Surgery	389
27603	Incision and drainage, le	77	Vascular Surgery	376
33213	Insertion or replacement	77	Vascular Surgery	374
35606	Bypass graft, with other	77	Vascular Surgery	371
27596	Amputation, thigh, throu	77	Vascular Surgery	369
34111	Embolectomy or thrombol	77	Vascular Surgery	357
35221	Repair blood vessel, dire	77	Vascular Surgery	345
33233	Removal of permanent p	77	Vascular Surgery	341

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19301	Mastectomy, partial (eg,	77	Vascular Surgery	339
36838	Distal revascularization	77	Vascular Surgery	338
15738	Muscle, myocutaneous,	77	Vascular Surgery	337
33880	Endovascular repair of c	77	Vascular Surgery	331
35103	Direct repair of aneurysr	77	Vascular Surgery	331
37618	Ligation, major artery (e	77	Vascular Surgery	322
38525	Biopsy or excision of lym	77	Vascular Surgery	306
35341	Thromboendarterectomy	77	Vascular Surgery	299
49507	Repair initial inguinal he	77	Vascular Surgery	298
35302	Thromboendarterectomy	77	Vascular Surgery	285
35303	Thromboendarterectomy	77	Vascular Surgery	285
35304	Thromboendarterectomy	77	Vascular Surgery	285
35305	Thromboendarterectomy	77	Vascular Surgery	285
60500	Parathyroidectomy or ex	77	Vascular Surgery	283
33883	Placement of proximal e	77	Vascular Surgery	280
35840	Exploration for postoper	77	Vascular Surgery	279
49587	Repair umbilical hernia,	77	Vascular Surgery	275
17108	Destruction of cutaneou	77	Vascular Surgery	273
49650	Laparoscopy, surgical; r	77	Vascular Surgery	271
19307	Mastectomy, modified ra	77	Vascular Surgery	265
35587	In-situ vein bypass; popl	77	Vascular Surgery	265
49520	Repair recurrent inguina	77	Vascular Surgery	264
35907	Excision of infected graf	77	Vascular Surgery	260
44145	Colectomy, partial; with	77	Vascular Surgery	254
34800	Endovascular repair of il	77	Vascular Surgery	253
35142	Direct repair of aneurysr	77	Vascular Surgery	244
35131	Direct repair of aneurysr	77	Vascular Surgery	241
35236	Repair blood vessel with	77	Vascular Surgery	241
35201	Repair blood vessel, dire	77	Vascular Surgery	237
49565	Repair recurrent incisor	77	Vascular Surgery	233
49002	Reopening of recent lap	77	Vascular Surgery	221
34805	Endovascular repair of il	77	Vascular Surgery	220
27600	Decompression fascioto	77	Vascular Surgery	217
44970	Laparoscopy, surgical, a	77	Vascular Surgery	217
43830	Gastrostomy, open; with	77	Vascular Surgery	216
35558	Bypass graft, with vein; t	77	Vascular Surgery	211
32500	Removal of lung, other t	77	Vascular Surgery	203
33430	Replacement, mitral valv	77	Vascular Surgery	196
19303	Mastectomy, simple, cor	77	Vascular Surgery	188
32657	Thoracoscopy, surgical;	77	Vascular Surgery	186
35637	Bypass graft, with other	77	Vascular Surgery	184
35638	Bypass graft, with other	77	Vascular Surgery	184
27881	Amputation, leg, through	77	Vascular Surgery	183
33025	Creation of pericardial w	77	Vascular Surgery	181
33212	Insertion or replacement	77	Vascular Surgery	181
34151	Embolectomy or thromb	77	Vascular Surgery	181
35331	Thromboendarterectomy	77	Vascular Surgery	181
44950	Appendectomy;	77	Vascular Surgery	180
35092	Direct repair of aneurysr	77	Vascular Surgery	175
26951	Amputation, finger or th	77	Vascular Surgery	174
35321	Thromboendarterectomy	77	Vascular Surgery	170
38100	Splenectomy; total (sepa	77	Vascular Surgery	168

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32650	Thoracoscopy, surgical;	77	Vascular Surgery	166
33510	Coronary artery bypass,	77	Vascular Surgery	165
35565	Bypass graft, with vein;	77	Vascular Surgery	165
47605	Cholecystectomy; with c	77	Vascular Surgery	162
37500	Vascular endoscopy, su	77	Vascular Surgery	160
35671	Bypass graft, with other	77	Vascular Surgery	156
21930	Excision, tumor, soft tiss	77	Vascular Surgery	152
19302	Mastectomy, partial (eg,	77	Vascular Surgery	150
49010	Exploration, retroperiton	77	Vascular Surgery	150
35741	Exploration (not followe	77	Vascular Surgery	149
60220	Total thyroid lobectomy,	77	Vascular Surgery	148
21501	Incision and drainage, d	77	Vascular Surgery	144
27884	Amputation, leg, through	77	Vascular Surgery	143
35266	Repair blood vessel with	77	Vascular Surgery	143
35701	Exploration (not followe	77	Vascular Surgery	142
37718	Ligation, division, and st	77	Vascular Surgery	142
43840	Gastrorrhaphy, suture o	77	Vascular Surgery	142
21555	Excision tumor, soft tiss	77	Vascular Surgery	141
35820	Exploration for postoper	77	Vascular Surgery	140
49020	Drainage of peritoneal a	77	Vascular Surgery	139
61885	Insertion or replacement	77	Vascular Surgery	138
33512	Coronary artery bypass,	77	Vascular Surgery	136
49566	Repair recurrent incision	77	Vascular Surgery	136
35883	Revision, femoral anasto	77	Vascular Surgery	136
35884	Revision, femoral anasto	77	Vascular Surgery	136
35647	Bypass graft, with other	77	Vascular Surgery	134
33511	Coronary artery bypass,	77	Vascular Surgery	131
35601	Bypass graft, with other	77	Vascular Surgery	131
33534	Coronary artery bypass,	77	Vascular Surgery	130
47100	Biopsy of liver, wedge	77	Vascular Surgery	130
35261	Repair blood vessel with	77	Vascular Surgery	129
35525	Bypass graft, with vein;	77	Vascular Surgery	128
44960	Appendectomy; for ruptu	77	Vascular Surgery	126
28800	Amputation, foot; midtar	77	Vascular Surgery	124
44180	Laparoscopy, surgical, e	77	Vascular Surgery	122
37617	Ligation, major artery (e	77	Vascular Surgery	121
37780	Ligation and division of s	77	Vascular Surgery	120
44602	Suture of small intestine	77	Vascular Surgery	120
27592	Amputation, thigh, throu	77	Vascular Surgery	118
25028	Incision and drainage, fo	77	Vascular Surgery	117
34490	Thrombectomy, direct o	77	Vascular Surgery	117
35045	Direct repair of aneurysr	77	Vascular Surgery	117
64573	Incision for implantation	77	Vascular Surgery	115
60240	Thyroidectomy, total or c	77	Vascular Surgery	113
27598	Disarticulation at knee	77	Vascular Surgery	111
44320	Colostomy or skin level	77	Vascular Surgery	110
44626	Closure of enterostomy,	77	Vascular Surgery	109
26990	Incision and drainage, p	77	Vascular Surgery	108
28122	Partial excision (crateriz	77	Vascular Surgery	107
44150	Colectomy, total, abdom	77	Vascular Surgery	107
28003	Incision and drainage be	77	Vascular Surgery	105
33249	Insertion or repositioning	77	Vascular Surgery	105

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33426	Valvuloplasty, mitral valv	77	Vascular Surgery	103
35001	Direct repair of aneurysm	77	Vascular Surgery	102
33860	Ascending aorta graft, w	77	Vascular Surgery	100
44204	Laparoscopy, surgical; c	77	Vascular Surgery	99
15120	Split-thickness autograft	77	Vascular Surgery	99
32100	Thoracotomy, major; wit	77	Vascular Surgery	97
46260	Hemorrhoidectomy, inte	77	Vascular Surgery	96
35013	Direct repair of aneurysm	77	Vascular Surgery	92
35531	Bypass graft, with vein; s	77	Vascular Surgery	91
15300	Allograft skin for tempor	77	Vascular Surgery	90
20926	Tissue grafts, other (eg,	77	Vascular Surgery	89
28111	Ostectomy, complete ex	77	Vascular Surgery	89
28112	Ostectomy, complete ex	77	Vascular Surgery	87
49521	Repair recurrent inguina	77	Vascular Surgery	87
63090	Vertebral corpectomy (v	77	Vascular Surgery	86
49900	Suture, secondary, of ab	77	Vascular Surgery	84
32220	Decortication, pulmonar	77	Vascular Surgery	83
21556	Excision tumor, soft tiss	77	Vascular Surgery	80
46040	Incision and drainage of	77	Vascular Surgery	80
49525	Repair inguinal hernia, s	77	Vascular Surgery	79
28140	Metatarsectomy	77	Vascular Surgery	78
44144	Colectomy, partial; with	77	Vascular Surgery	77
28005	Incision, bone cortex (eg	77	Vascular Surgery	75
43280	Laparoscopy, surgical, e	77	Vascular Surgery	75
47610	Cholecystectomy with ex	77	Vascular Surgery	75
43820	Gastrojejunostomy; with	77	Vascular Surgery	74
33254	Operative tissue ablatio	77	Vascular Surgery	74
27594	Amputation, thigh, throu	77	Vascular Surgery	73
37600	Ligation; external carotid	77	Vascular Surgery	73
33870	Transverse arch graft, w	77	Vascular Surgery	72
35121	Direct repair of aneurysm	77	Vascular Surgery	71
44205	Laparoscopy, surgical; c	77	Vascular Surgery	71
49553	Repair initial femoral he	77	Vascular Surgery	71
35663	Bypass graft, with other	77	Vascular Surgery	70
37735	Ligation and division and	77	Vascular Surgery	68
44141	Colectomy, partial; with	77	Vascular Surgery	68
34421	Thrombectomy, direct or	77	Vascular Surgery	65
50230	Nephrectomy, including	77	Vascular Surgery	64
33256	Operative tissue ablatio	77	Vascular Surgery	63
15170	Acellular dermal replace	77	Vascular Surgery	63
44050	Reduction of volvulus, ir	77	Vascular Surgery	63
44310	Ileostomy or jejunostom	77	Vascular Surgery	63
33513	Coronary artery bypass,	77	Vascular Surgery	62
35281	Repair blood vessel with	77	Vascular Surgery	61
60600	Excision of carotid body	77	Vascular Surgery	61
35522	Bypass graft, with vein; s	77	Vascular Surgery	60
35901	Excision of infected graf	77	Vascular Surgery	60
35626	Bypass graft, with other	77	Vascular Surgery	59
43632	Gastrectomy, partial, dis	77	Vascular Surgery	59
44300	Placement, enterostomy	77	Vascular Surgery	59
33464	Valvuloplasty, tricuspid v	77	Vascular Surgery	58
45170	Excision of rectal tumor,	77	Vascular Surgery	58

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24075	Excision, tumor, soft tissue	77	Vascular Surgery	57
39502	Repair, paraesophageal	77	Vascular Surgery	57
46255	Hemorrhoidectomy, internal	77	Vascular Surgery	57
50220	Nephrectomy, including	77	Vascular Surgery	57
64713	Neuroplasty, major peripheral	77	Vascular Surgery	57
33427	Valvuloplasty, mitral valve	77	Vascular Surgery	56
38308	Lymphangiomyotomy or other	77	Vascular Surgery	56
35623	Bypass graft, with other	77	Vascular Surgery	55
27327	Excision, tumor, thigh or	77	Vascular Surgery	54
27889	Ankle disarticulation	77	Vascular Surgery	54
34001	Embolectomy or thrombectomy	77	Vascular Surgery	54
48150	Pancreatectomy, proximal	77	Vascular Surgery	54
49550	Repair initial femoral hernia	77	Vascular Surgery	54
64818	Sympathectomy, lumbar	77	Vascular Surgery	54
15400	Xenograft, skin (dermal)	77	Vascular Surgery	52
14020	Adjacent tissue transfer	77	Vascular Surgery	51
22900	Excision, abdominal wall	77	Vascular Surgery	51
43770	Laparoscopy, surgical, general	77	Vascular Surgery	50
28113	Osteotomy, complete external	77	Vascular Surgery	50
32652	Thoracoscopy, surgical; re	77	Vascular Surgery	50
49060	Drainage of retroperitoneum	77	Vascular Surgery	50
27601	Decompression fasciotomy	77	Vascular Surgery	49
32095	Thoracotomy, limited, for	77	Vascular Surgery	49
35560	Bypass graft, with vein; c	77	Vascular Surgery	49
39010	Mediastinotomy with explor	77	Vascular Surgery	48
33215	Repositioning of previous	77	Vascular Surgery	47
35650	Bypass graft, with other	77	Vascular Surgery	47
49651	Laparoscopy, surgical; re	77	Vascular Surgery	47
50370	Removal of transplanted	77	Vascular Surgery	47
26910	Amputation, metacarpal	77	Vascular Surgery	46
33222	Revision or relocation of	77	Vascular Surgery	46
34831	Open repair of infrarenal	77	Vascular Surgery	46
35251	Repair blood vessel with	77	Vascular Surgery	46
35509	Bypass graft, with vein; c	77	Vascular Surgery	46
49402	Removal of peritoneal fold	77	Vascular Surgery	46
64721	Neuroplasty and/or trans	77	Vascular Surgery	46
15734	Muscle, myocutaneous,	77	Vascular Surgery	45
25075	Excision, tumor, soft tissue	77	Vascular Surgery	45
33641	Repair atrial septal defect	77	Vascular Surgery	45
33971	Removal of intra-aortic b	77	Vascular Surgery	44
37605	Ligation; internal or com	77	Vascular Surgery	44
34501	Valvuloplasty, femoral valve	77	Vascular Surgery	43
35501	Bypass graft, with vein; c	77	Vascular Surgery	43
43644	Laparoscopy, surgical, g	77	Vascular Surgery	43
44207	Laparoscopy, surgical; c	77	Vascular Surgery	43
49590	Repair spigelian hernia	77	Vascular Surgery	43
33217	Insertion of a transvenous	77	Vascular Surgery	42
55520	Excision of lesion of sple	77	Vascular Surgery	42
60200	Excision of cyst or aden	77	Vascular Surgery	42
38745	Axillary lymphadenectomy	77	Vascular Surgery	41
44620	Closure of enterostomy,	77	Vascular Surgery	41
64708	Neuroplasty, major peripheral	77	Vascular Surgery	41

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35132	Direct repair of aneurysm	77	Vascular Surgery	40
24495	Decompression fasciotomy	77	Vascular Surgery	39
27447	Arthroplasty, knee, condylar	77	Vascular Surgery	39
28150	Phalangectomy, toe, each	77	Vascular Surgery	39
35361	Thromboendarterectomy	77	Vascular Surgery	39
63047	Laminectomy, facetectomy	77	Vascular Surgery	39
34502	Reconstruction of venous	77	Vascular Surgery	38
38740	Axillary lymphadenectomy	77	Vascular Surgery	38
44604	Suture of large intestine	77	Vascular Surgery	38
17106	Destruction of cutaneous	77	Vascular Surgery	37
27894	Decompression fasciotomy	77	Vascular Surgery	37
32124	Thoracotomy, major; with	77	Vascular Surgery	37
32320	Decortication and parietal	77	Vascular Surgery	37
35184	Repair, congenital arterial	77	Vascular Surgery	37
35694	Transposition and/or reimplant	77	Vascular Surgery	37
49425	Insertion of peritoneal-venous	77	Vascular Surgery	37
35539	Bypass graft, with vein; arterial	77	Vascular Surgery	37
35540	Bypass graft, with vein; venous	77	Vascular Surgery	37
21750	Closure of median sternotomy	77	Vascular Surgery	36
32484	Removal of lung, other than	77	Vascular Surgery	36
33863	Ascending aorta graft, with	77	Vascular Surgery	36
33875	Descending thoracic aorta	77	Vascular Surgery	36
35231	Repair blood vessel with	77	Vascular Surgery	36
43117	Partial esophagectomy, with	77	Vascular Surgery	36
43610	Excision, local; ulcer or	77	Vascular Surgery	36
44603	Suture of small intestine	77	Vascular Surgery	36
48140	Pancreatectomy, distal segment	77	Vascular Surgery	36
58720	Salpingo-oophorectomy	77	Vascular Surgery	36
27328	Excision, tumor, thigh or	77	Vascular Surgery	35
28120	Partial excision (craterized)	77	Vascular Surgery	35
33216	Insertion of a transvenous	77	Vascular Surgery	35
33886	Placement of distal external	77	Vascular Surgery	35
46947	Hemorrhoidopexy (eg, for	77	Vascular Surgery	35
63087	Vertebral corpectomy (vertebral	77	Vascular Surgery	35
44227	Laparoscopy, surgical, complete	77	Vascular Surgery	35
15936	Excision, sacral pressure	77	Vascular Surgery	34
20680	Removal of implant; deep	77	Vascular Surgery	34
21615	Excision first and/or cervical	77	Vascular Surgery	34
39000	Mediastinotomy with exposure	77	Vascular Surgery	34
44125	Enterectomy, resection of	77	Vascular Surgery	34
44130	Enteroenterostomy, anastomosis	77	Vascular Surgery	34
15931	Excision, sacral pressure	77	Vascular Surgery	33
27618	Excision, tumor, leg or arm	77	Vascular Surgery	33
27641	Partial excision (craterized)	77	Vascular Surgery	33
33241	Subcutaneous removal of	77	Vascular Surgery	33
34830	Open repair of infrarenal	77	Vascular Surgery	33
35691	Transposition and/or reimplant	77	Vascular Surgery	33
37650	Ligation of femoral vein	77	Vascular Surgery	33
43631	Gastrectomy, partial, distal	77	Vascular Surgery	33
44146	Colectomy, partial; with	77	Vascular Surgery	33
49062	Drainage of extraperitoneal	77	Vascular Surgery	32
44625	Closure of enterostomy, with	77	Vascular Surgery	31

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35216	Repair blood vessel, dire	77	Vascular Surgery	31
32663	Thoracoscopy, surgical;	77	Vascular Surgery	31
33535	Coronary artery bypass,	77	Vascular Surgery	31
38760	Inguinofemoral lymphad	77	Vascular Surgery	31
43324	Esophagogastric fundop	77	Vascular Surgery	31
43633	Gastrectomy, partial, dis	77	Vascular Surgery	31
44346	Revision of colostomy; v	77	Vascular Surgery	31
49323	Laparoscopy, surgical; v	77	Vascular Surgery	31
50320	Donor nephrectomy (inc	77	Vascular Surgery	31
15330	Acellular dermal allograf	77	Vascular Surgery	30
21600	Excision of rib, partial	77	Vascular Surgery	30
27130	Arthroplasty, acetabular	77	Vascular Surgery	30
33400	Valvuloplasty, aortic valv	77	Vascular Surgery	30
58940	Oophorectomy, partial o	77	Vascular Surgery	30
23076	Excision, soft tissue tum	77	Vascular Surgery	29
33240	Insertion of single or dua	77	Vascular Surgery	29
43653	Laparoscopy, surgical; g	77	Vascular Surgery	29
47564	Laparoscopy, surgical; c	77	Vascular Surgery	29
50205	Renal biopsy; by surgica	77	Vascular Surgery	29
14000	Adjacent tissue transfer	77	Vascular Surgery	28
19300	Mastectomy for gynecor	77	Vascular Surgery	28
27372	Removal of foreign body	77	Vascular Surgery	28
27888	Amputation, ankle, throu	77	Vascular Surgery	28
33406	Replacement, aortic valv	77	Vascular Surgery	28
34520	Cross-over vein graft to	77	Vascular Surgery	28
47120	Hepatectomy, resection	77	Vascular Surgery	28
21627	Sternal debridement	77	Vascular Surgery	27
26145	Synovectomy, tendon sh	77	Vascular Surgery	27
32651	Thoracoscopy, surgical;	77	Vascular Surgery	27
35870	Repair of graft-enteric fis	77	Vascular Surgery	27
45110	Proctectomy; complete,	77	Vascular Surgery	26
44345	Revision of colostomy; c	77	Vascular Surgery	26
48153	Pancreatectomy, proxim	77	Vascular Surgery	26
60210	Partial thyroid lobectomy	77	Vascular Surgery	26
15110	Epidermal autograft, tru	77	Vascular Surgery	26
15115	Epidermal autograft, fac	77	Vascular Surgery	25
33255	Operative tissue ablation	77	Vascular Surgery	25
14040	Adjacent tissue transfer	77	Vascular Surgery	25
21700	Division of scalenus ant	77	Vascular Surgery	25
21705	Division of scalenus ant	77	Vascular Surgery	25
24076	Excision, tumor, soft tiss	77	Vascular Surgery	25
33030	Pericardiectomy, subtota	77	Vascular Surgery	25
35533	Bypass graft, with vein; s	77	Vascular Surgery	25
43832	Gastrostomy, open; with	77	Vascular Surgery	25
44110	Excision of one or more	77	Vascular Surgery	25
49570	Repair epigastric hernia	77	Vascular Surgery	25
21015	Radical resection of tum	77	Vascular Surgery	24
32141	Thoracotomy, major; wit	77	Vascular Surgery	24
34401	Thrombectomy, direct o	77	Vascular Surgery	24
35536	Bypass graft, with vein; s	77	Vascular Surgery	24
15220	Full thickness graft, free	77	Vascular Surgery	23
32225	Decortication, pulmonar	77	Vascular Surgery	23

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32482	Removal of lung, other t	77	Vascular Surgery	23
35905	Excision of infected graf	77	Vascular Surgery	23
43800	Pyloroplasty	77	Vascular Surgery	23
15130	Dermal autograft, trunk,	77	Vascular Surgery	23
33202	Insertion of epicardial el	77	Vascular Surgery	22
25248	Exploration with remova	77	Vascular Surgery	22
27236	Open treatment of femo	77	Vascular Surgery	22
27329	Radical resection of tum	77	Vascular Surgery	22
28008	Fasciotomy, foot and/or	77	Vascular Surgery	22
33234	Removal of transvenous	77	Vascular Surgery	22
33425	Valvuloplasty, mitral valv	77	Vascular Surgery	22
35363	Thromboendarterectomy	77	Vascular Surgery	22
35506	Bypass graft, with vein; c	77	Vascular Surgery	22
35521	Bypass graft, with vein; c	77	Vascular Surgery	22
38520	Biopsy or excision of lym	77	Vascular Surgery	22
43611	Excision, local; malignan	77	Vascular Surgery	22
44021	Enterotomy, small intest	77	Vascular Surgery	22
44188	Laparoscopy, surgical, c	77	Vascular Surgery	22
15940	Excision, ischial pressur	77	Vascular Surgery	21
17107	Destruction of cutaneous	77	Vascular Surgery	21
27047	Excision, tumor, pelvis a	77	Vascular Surgery	21
27295	Disarticulation of hip	77	Vascular Surgery	21
32120	Thoracotomy, major; for	77	Vascular Surgery	21
32440	Removal of lung, total p	77	Vascular Surgery	21
33206	Insertion or replacement	77	Vascular Surgery	21
34832	Open repair of infrarena	77	Vascular Surgery	21
35111	Direct repair of aneurysr	77	Vascular Surgery	21
44202	Laparoscopy, surgical; e	77	Vascular Surgery	21
50605	Ureterotomy for insertio	77	Vascular Surgery	21
25111	Excision of ganglion, wri	77	Vascular Surgery	20
35612	Bypass graft, with other	77	Vascular Surgery	20
35616	Bypass graft, with other	77	Vascular Surgery	20
46250	Hemorrhoidectomy, exte	77	Vascular Surgery	20
45395	Laparoscopy, surgical; p	77	Vascular Surgery	20
15175	Acellular dermal replace	77	Vascular Surgery	19
15937	Excision, sacral pressur	77	Vascular Surgery	19
35651	Bypass graft, with other	77	Vascular Surgery	19
38542	Dissection, deep jugular	77	Vascular Surgery	19
46270	Surgical treatment of an	77	Vascular Surgery	19
48554	Transplantation of pancr	77	Vascular Surgery	19
60540	Adrenalectomy, partial c	77	Vascular Surgery	19
15420	Xenograft skin (dermal),	77	Vascular Surgery	18
19304	Mastectomy, subcutane	77	Vascular Surgery	18
22612	Arthrodesis, posterior or	77	Vascular Surgery	18
25020	Decompression fascioto	77	Vascular Surgery	18
27324	Biopsy, soft tissue of thi	77	Vascular Surgery	18
27591	Amputation, thigh, throu	77	Vascular Surgery	18
27614	Biopsy, soft tissue of leg	77	Vascular Surgery	18
32310	Pleurectomy, parietal (s	77	Vascular Surgery	18
33463	Valvuloplasty, tricuspid v	77	Vascular Surgery	18
35510	Bypass graft, with vein; c	77	Vascular Surgery	18
37660	Ligation of common iliac	77	Vascular Surgery	18

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43501	Gastrotomy; with suture	77	Vascular Surgery	18
43870	Closure of gastrotomy,	77	Vascular Surgery	18
47780	Anastomosis, Roux-en-Y	77	Vascular Surgery	18
48100	Biopsy of pancreas, open	77	Vascular Surgery	18
49426	Revision of peritoneal-ve	77	Vascular Surgery	18
58150	Total abdominal hyster	77	Vascular Surgery	18
60225	Total thyroid lobectomy,	77	Vascular Surgery	18
44187	Laparoscopy, surgical; il	77	Vascular Surgery	17
22556	Arthrodesis, anterior inte	77	Vascular Surgery	17
24201	Removal of foreign body	77	Vascular Surgery	17
27360	Partial excision (crateriz	77	Vascular Surgery	17
27619	Excision, tumor, leg or a	77	Vascular Surgery	17
28124	Partial excision (crateriz	77	Vascular Surgery	17
29848	Endoscopy, wrist, surgic	77	Vascular Surgery	17
32655	Thoracoscopy, surgical;	77	Vascular Surgery	17
33235	Removal of transvenous	77	Vascular Surgery	17
33514	Coronary artery bypass,	77	Vascular Surgery	17
44020	Enterotomy, small intest	77	Vascular Surgery	17
45505	Proctoplasty; for prolaps	77	Vascular Surgery	17
46280	Surgical treatment of an	77	Vascular Surgery	17
49040	Drainage of subdiaphrag	77	Vascular Surgery	17
62223	Creation of shunt; ventri	77	Vascular Surgery	17
63085	Vertebral corpectomy (v	77	Vascular Surgery	17
19020	Mastotomy with explorat	77	Vascular Surgery	16
25076	Excision, tumor, soft tiss	77	Vascular Surgery	16
27048	Excision, tumor, pelvis a	77	Vascular Surgery	16
32540	Extrapleural enucleation	77	Vascular Surgery	16
33120	Excision of intracardiac	77	Vascular Surgery	16
33410	Replacement, aortic valv	77	Vascular Surgery	16
35021	Direct repair of aneurysm	77	Vascular Surgery	16
35636	Bypass graft, with other	77	Vascular Surgery	16
35695	Transposition and/or rei	77	Vascular Surgery	16
38305	Drainage of lymph node	77	Vascular Surgery	16
44314	Revision of ileostomy; co	77	Vascular Surgery	16
54520	Orchiectomy, simple (inc	77	Vascular Surgery	16
49255	Omentectomy, epiploect	77	Vascular Surgery	15
32504	Resection of apical lung	77	Vascular Surgery	15
15946	Excision, ischial pressur	77	Vascular Surgery	15
21825	Open treatment of stern	77	Vascular Surgery	15
32659	Thoracoscopy, surgical;	77	Vascular Surgery	15
32900	Resection of ribs, extrap	77	Vascular Surgery	15
33416	Ventriculomyotomy (-my	77	Vascular Surgery	15
35189	Repair, acquired or trau	77	Vascular Surgery	15
44147	Colectomy, partial; abdo	77	Vascular Surgery	15
44640	Closure of intestinal cuta	77	Vascular Surgery	15
45100	Biopsy of anorectal wall,	77	Vascular Surgery	15
47420	Choledochotomy or cho	77	Vascular Surgery	15
47480	Cholecystotomy or chole	77	Vascular Surgery	15
47760	Anastomosis, of extrahe	77	Vascular Surgery	15
50547	Laparoscopy, surgical; c	77	Vascular Surgery	15
60252	Thyroidectomy, total or s	77	Vascular Surgery	15
15736	Muscle, myocutaneous,	77	Vascular Surgery	14

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23405	Tenotomy, shoulder are	77	Vascular Surgery	14
28126	Resection, partial or con	77	Vascular Surgery	14
32110	Thoracotomy, major; wit	77	Vascular Surgery	14
32160	Thoracotomy, major; wit	77	Vascular Surgery	14
35152	Direct repair of aneurysr	77	Vascular Surgery	14
38120	Laparoscopy, surgical, s	77	Vascular Surgery	14
44800	Excision of Meckel's div	77	Vascular Surgery	14
49572	Repair epigastric hernia	77	Vascular Surgery	14
32503	Resection of apical lung	77	Vascular Surgery	13
14021	Adjacent tissue transfer	77	Vascular Surgery	13
21557	Radical resection of tum	77	Vascular Surgery	13
22224	Osteotomy of spine, incl	77	Vascular Surgery	13
28288	Ostectomy, partial, exos	77	Vascular Surgery	13
31610	Tracheostomy, fenestra	77	Vascular Surgery	13
31613	Tracheostoma revision;	77	Vascular Surgery	13
32664	Thoracoscopy, surgical;	77	Vascular Surgery	13
37615	Ligation, major artery (e	77	Vascular Surgery	13
43130	Diverticulectomy of hypc	77	Vascular Surgery	13
43621	Gastrectomy, total; with	77	Vascular Surgery	13
43640	Vagotomy including pylc	77	Vascular Surgery	13
11771	Excision of pilonidal cys	77	Vascular Surgery	12
14001	Adjacent tissue transfer	77	Vascular Surgery	12
19260	Excision of chest wall tu	77	Vascular Surgery	12
26160	Excision of lesion of ten	77	Vascular Surgery	12
27498	Decompression fascioto	77	Vascular Surgery	12
27892	Decompression fascioto	77	Vascular Surgery	12
33320	Suture repair of aorta or	77	Vascular Surgery	12
36835	Insertion of Thomas shu	77	Vascular Surgery	12
38530	Biopsy or excision of lym	77	Vascular Surgery	12
44155	Colectomy, total, abdom	77	Vascular Surgery	12
44206	Laparoscopy, surgical; c	77	Vascular Surgery	12
46200	Fissurectomy, with or wi	77	Vascular Surgery	12
47511	Introduction of percutane	77	Vascular Surgery	12
47612	Cholecystectomy with ex	77	Vascular Surgery	12
55845	Prostatectomy, retropub	77	Vascular Surgery	12
58957	Resection (tumor debulk	77	Vascular Surgery	12
33542	Myocardial resection (eg	77	Vascular Surgery	12
15150	Tissue cultured epiderm	77	Vascular Surgery	12
22554	Arthrodesis, anterior inte	77	Vascular Surgery	11
28173	Radical resection of tum	77	Vascular Surgery	11
32656	Thoracoscopy, surgical;	77	Vascular Surgery	11
33214	Upgrade of implanted pa	77	Vascular Surgery	11
33282	Implantation of patient-a	77	Vascular Surgery	11
33861	Ascending aorta graft, w	77	Vascular Surgery	11
34451	Thrombectomy, direct or	77	Vascular Surgery	11
36822	Insertion of cannula(s) f	77	Vascular Surgery	11
43107	Total or near total esoph	77	Vascular Surgery	11
44010	Duodenotomy, for explo	77	Vascular Surgery	11
44615	Intestinal stricturoplasty	77	Vascular Surgery	11
45130	Excision of rectal procid	77	Vascular Surgery	11
46934	Destruction of hemorrhh	77	Vascular Surgery	11
48105	Resection or debrideme	77	Vascular Surgery	11

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50545	Laparoscopy, surgical; r	77	Vascular Surgery	11
60271	Thyroidectomy, including	77	Vascular Surgery	11
15200	Full thickness graft, free	77	Vascular Surgery	10
15240	Full thickness graft, free	77	Vascular Surgery	10
21925	Biopsy, soft tissue of ba	77	Vascular Surgery	10
22808	Arthrodesis, anterior, for	77	Vascular Surgery	10
22810	Arthrodesis, anterior, for	77	Vascular Surgery	10
22855	Removal of anterior inst	77	Vascular Surgery	10
24900	Amputation, arm througl	77	Vascular Surgery	10
27025	Fasciotomy, hip or thigh	77	Vascular Surgery	10
28045	Excision, tumor, foot; de	77	Vascular Surgery	10
28110	Ostectomy, partial excis	77	Vascular Surgery	10
34471	Thrombectomy, direct o	77	Vascular Surgery	10
35122	Direct repair of aneurysr	77	Vascular Surgery	10
35246	Repair blood vessel with	77	Vascular Surgery	10
35518	Bypass graft, with vein; s	77	Vascular Surgery	10
37565	Ligation, internal jugular	77	Vascular Surgery	10
37616	Ligation, major artery (e	77	Vascular Surgery	10
43122	Partial esophagectomy,	77	Vascular Surgery	10
44340	Revision of colostomy; s	77	Vascular Surgery	10
44650	Closure of enteroenteric	77	Vascular Surgery	10
45020	Incision and drainage of	77	Vascular Surgery	10
50240	Nephrectomy, partial	77	Vascular Surgery	10
60260	Thyroidectomy, removal	77	Vascular Surgery	10
63077	Discectomy, anterior, wi	77	Vascular Surgery	10
33265	Endoscopy, surgical; op	77	Vascular Surgery	9
33266	Endoscopy, surgical; op	77	Vascular Surgery	9
11450	Excision of skin and sub	77	Vascular Surgery	9
14300	Adjacent tissue transfer	77	Vascular Surgery	9
21935	Radical resection of tum	77	Vascular Surgery	9
22830	Exploration of spinal fus	77	Vascular Surgery	9
24066	Biopsy, soft tissue of up	77	Vascular Surgery	9
26055	Tendon sheath incision	77	Vascular Surgery	9
26116	Excision, tumor or vascu	77	Vascular Surgery	9
27780	Closed treatment of pro	77	Vascular Surgery	9
28043	Excision, tumor, foot; su	77	Vascular Surgery	9
33322	Suture repair of aorta or	77	Vascular Surgery	9
35311	Thromboendarterectomy	77	Vascular Surgery	9
35511	Bypass graft, with vein; s	77	Vascular Surgery	9
38564	Limited lymphadenector	77	Vascular Surgery	9
43415	Suture of esophageal we	77	Vascular Surgery	9
43860	Revision of gastrojejuna	77	Vascular Surgery	9
44605	Suture of large intestine	77	Vascular Surgery	9
44661	Closure of enterovesical	77	Vascular Surgery	9
47350	Management of liver he	77	Vascular Surgery	9
49557	Repair recurrent femora	77	Vascular Surgery	9
55040	Excision of hydrocele; u	77	Vascular Surgery	9
63030	Laminotomy (hemilamin	77	Vascular Surgery	9
63075	Discectomy, anterior, wi	77	Vascular Surgery	9
64722	Decompression; unspec	77	Vascular Surgery	9
69110	Excision external ear; pa	77	Vascular Surgery	9
35537	Bypass graft, with vein; s	77	Vascular Surgery	9

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35538	Bypass graft, with vein; s	77	Vascular Surgery	9
14060	Adjacent tissue transfer	77	Vascular Surgery	8
15320	Allograft skin for tempor	77	Vascular Surgery	8
15933	Excision, sacral pressur	77	Vascular Surgery	8
19305	Mastectomy, radical, inc	77	Vascular Surgery	8
26115	Excision, tumor or vascu	77	Vascular Surgery	8
27345	Excision of synovial cyst	77	Vascular Surgery	8
28090	Excision of lesion, tendc	77	Vascular Surgery	8
33300	Repair of cardiac wound	77	Vascular Surgery	8
33536	Coronary artery bypass,	77	Vascular Surgery	8
35512	Bypass graft, with vein; s	77	Vascular Surgery	8
35516	Bypass graft, with vein; s	77	Vascular Surgery	8
35563	Bypass graft, with vein; s	77	Vascular Surgery	8
36260	Insertion of implantable	77	Vascular Surgery	8
36823	Insertion of arterial and v	77	Vascular Surgery	8
39530	Repair, diaphragmatic h	77	Vascular Surgery	8
43112	Total or near total esoph	77	Vascular Surgery	8
43330	Esophagomyotomy (Hel	77	Vascular Surgery	8
44025	Colotomy, for exploratio	77	Vascular Surgery	8
45111	Proctectomy; partial res	77	Vascular Surgery	8
46045	Incision and drainage of	77	Vascular Surgery	8
47130	Hepatectomy, resection	77	Vascular Surgery	8
11772	Excision of pilonidal cys	77	Vascular Surgery	7
15260	Full thickness graft, free	77	Vascular Surgery	7
15572	Formation of direct or tu	77	Vascular Surgery	7
15920	Excision, coccygeal pres	77	Vascular Surgery	7
19110	Nipple exploration, with	77	Vascular Surgery	7
22630	Arthrodesis, posterior in	77	Vascular Surgery	7
23077	Radical resection of tum	77	Vascular Surgery	7
24077	Radical resection of tum	77	Vascular Surgery	7
27041	Biopsy, soft tissue of pe	77	Vascular Surgery	7
28062	Fasciectomy, plantar fas	77	Vascular Surgery	7
32035	Thoracostomy; with rib r	77	Vascular Surgery	7
32653	Thoracoscopy, surgical;	77	Vascular Surgery	7
33015	Tube pericardiostomy	77	Vascular Surgery	7
35276	Repair blood vessel with	77	Vascular Surgery	7
35508	Bypass graft, with vein; c	77	Vascular Surgery	7
35548	Bypass graft, with vein; s	77	Vascular Surgery	7
35693	Transposition and/or rei	77	Vascular Surgery	7
39541	Repair, diaphragmatic h	77	Vascular Surgery	7
39561	Resection, diaphragm; v	77	Vascular Surgery	7
43500	Gastrotomy; with explor	77	Vascular Surgery	7
44186	Laparoscopy, surgical; je	77	Vascular Surgery	7
44210	Laparoscopy, surgical; c	77	Vascular Surgery	7
45112	Proctectomy, combined	77	Vascular Surgery	7
46060	Incision and drainage of	77	Vascular Surgery	7
46275	Surgical treatment of an	77	Vascular Surgery	7
47380	Ablation, open, of one o	77	Vascular Surgery	7
47490	Percutaneous cholecyst	77	Vascular Surgery	7
48520	Internal anastomosis of	77	Vascular Surgery	7
51860	Cystorrhaphy, suture of	77	Vascular Surgery	7
60502	Parathyroidectomy or ex	77	Vascular Surgery	7

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60650	Laparoscopy, surgical, v	77	Vascular Surgery	7
61597	Transcondylar (far latera	77	Vascular Surgery	7
63685	Insertion or replacement	77	Vascular Surgery	7
15335	Acellular dermal allograft	77	Vascular Surgery	6
15934	Excision, sacral pressur	77	Vascular Surgery	6
15945	Excision, ischial pressur	77	Vascular Surgery	6
15950	Excision, trochanteric pr	77	Vascular Surgery	6
23120	Claviclectomy; partial	77	Vascular Surgery	6
25077	Radical resection of tum	77	Vascular Surgery	6
27049	Radical resection of tum	77	Vascular Surgery	6
27220	Closed treatment of ace	77	Vascular Surgery	6
27615	Radical resection of tum	77	Vascular Surgery	6
28118	Ostectomy, calcaneus;	77	Vascular Surgery	6
28160	Hemiphalangectomy or	77	Vascular Surgery	6
28315	Sesamoidectomy, first to	77	Vascular Surgery	6
29850	Arthroscopically aided tr	77	Vascular Surgery	6
32036	Thoracostomy; with ope	77	Vascular Surgery	6
32140	Thoracotomy, major; wit	77	Vascular Surgery	6
32851	Lung transplant, single;	77	Vascular Surgery	6
33020	Pericardiotomy for remo	77	Vascular Surgery	6
33411	Replacement, aortic valv	77	Vascular Surgery	6
35002	Direct repair of aneurysr	77	Vascular Surgery	6
38562	Limited lymphadenector	77	Vascular Surgery	6
39560	Resection, diaphragm; v	77	Vascular Surgery	6
43135	Diverticulectomy of hypc	77	Vascular Surgery	6
43846	Gastric restrictive proce	77	Vascular Surgery	6
44055	Correction of malrotatio	77	Vascular Surgery	6
44208	Laparoscopy, surgical; c	77	Vascular Surgery	6
44700	Exclusion of small intest	77	Vascular Surgery	6
44900	Incision and drainage of	77	Vascular Surgery	6
45541	Proctopexy (eg, for prol	77	Vascular Surgery	6
46945	Ligation of internal hemo	77	Vascular Surgery	6
47785	Anastomosis, Roux-en-Y	77	Vascular Surgery	6
48510	External drainage, pseu	77	Vascular Surgery	6
49419	Insertion of intraperitone	77	Vascular Surgery	6
49555	Repair recurrent femora	77	Vascular Surgery	6
57305	Closure of rectovaginal t	77	Vascular Surgery	6
58660	Laparoscopy, surgical; v	77	Vascular Surgery	6
58700	Salpingectomy, complet	77	Vascular Surgery	6
60522	Thymectomy, partial or t	77	Vascular Surgery	6
60605	Excision of carotid body	77	Vascular Surgery	6
62230	Replacement or revisio	77	Vascular Surgery	6
15731	Forehead flap with prese	77	Vascular Surgery	6
15830	Excision, excessive skin	77	Vascular Surgery	5
33548	Surgical ventricular rest	77	Vascular Surgery	5
35271	Repair blood vessel with	77	Vascular Surgery	5
11451	Excision of skin and sub	77	Vascular Surgery	5
22852	Removal of posterior se	77	Vascular Surgery	5
23420	Reconstruction of comp	77	Vascular Surgery	5
25024	Decompression fascioto	77	Vascular Surgery	5
25260	Repair, tendon or muscl	77	Vascular Surgery	5
25900	Amputation, forearm, th	77	Vascular Surgery	5

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26020	Drainage of tendon sheath	77	Vascular Surgery	5
27245	Treatment of intertrochanteric	77	Vascular Surgery	5
27607	Incision (eg, osteomyelitis)	77	Vascular Surgery	5
27893	Decompression fasciotomy	77	Vascular Surgery	5
28060	Fasciectomy, plantar fasciitis	77	Vascular Surgery	5
32150	Thoracotomy, major; with	77	Vascular Surgery	5
32215	Pleural scarification for	77	Vascular Surgery	5
33284	Removal of an implantable	77	Vascular Surgery	5
33496	Repair of non-structural	77	Vascular Surgery	5
34051	Embolectomy or thrombolysis	77	Vascular Surgery	5
35642	Bypass graft, with other	77	Vascular Surgery	5
37606	Ligation; internal or common	77	Vascular Surgery	5
38724	Cervical lymphadenectomy	77	Vascular Surgery	5
39501	Repair, laceration of dia	77	Vascular Surgery	5
39545	Imbrication of diaphragm	77	Vascular Surgery	5
42440	Excision of submandibular	77	Vascular Surgery	5
43310	Esophagoplasty (plastic)	77	Vascular Surgery	5
43320	Esophagogastrostomy (	77	Vascular Surgery	5
43502	Gastrotomy; with suture	77	Vascular Surgery	5
43810	Gastroduodenostomy	77	Vascular Surgery	5
47010	Hepatotomy; for open di	77	Vascular Surgery	5
47125	Hepatectomy, resection	77	Vascular Surgery	5
47135	Liver allotransplantation	77	Vascular Surgery	5
49540	Repair lumbar hernia	77	Vascular Surgery	5
50715	Ureterolysis, with or with	77	Vascular Surgery	5
50250	Ablation, open, one or m	77	Vascular Surgery	5
35211	Repair blood vessel, dire	77	Vascular Surgery	5
45550	Proctopexy (eg, for prol	77	Vascular Surgery	4
15135	Dermal autograft, face, s	77	Vascular Surgery	4
14350	Filletted finger or toe flap	77	Vascular Surgery	4
15050	Pinch graft, single or mu	77	Vascular Surgery	4
15935	Excision, sacral pressur	77	Vascular Surgery	4
15951	Excision, trochanteric pr	77	Vascular Surgery	4
15956	Excision, trochanteric pr	77	Vascular Surgery	4
19271	Excision of chest wall tu	77	Vascular Surgery	4
20922	Fascia lata graft; by inc	77	Vascular Surgery	4
24105	Excision, olecranon bursa	77	Vascular Surgery	4
26200	Excision or curettage of	77	Vascular Surgery	4
26591	Repair, intrinsic muscles	77	Vascular Surgery	4
26952	Amputation, finger or th	77	Vascular Surgery	4
26992	Incision, bone cortex, pe	77	Vascular Surgery	4
27087	Removal of foreign body	77	Vascular Surgery	4
27305	Fasciotomy, iliotibial (ter	77	Vascular Surgery	4
27496	Decompression fasciotomy	77	Vascular Surgery	4
27630	Excision of lesion of ten	77	Vascular Surgery	4
27640	Partial excision (crateriz	77	Vascular Surgery	4
27656	Repair, fascial defect of	77	Vascular Surgery	4
28046	Radical resection of tum	77	Vascular Surgery	4
28153	Resection, condyle(s), d	77	Vascular Surgery	4
32402	Biopsy, pleura; open	77	Vascular Surgery	4
32662	Thoracoscopy, surgical;	77	Vascular Surgery	4
33031	Pericardiectomy, subtot	77	Vascular Surgery	4

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33218	Repair of single transve	77	Vascular Surgery	4
33220	Repair of two transveno	77	Vascular Surgery	4
33223	Revision of skin pocket	77	Vascular Surgery	4
33243	Removal of single or du	77	Vascular Surgery	4
33244	Removal of single or du	77	Vascular Surgery	4
33305	Repair of cardiac wound	77	Vascular Surgery	4
33330	Insertion of graft, aorta c	77	Vascular Surgery	4
33516	Coronary artery bypass,	77	Vascular Surgery	4
33545	Repair of postinfarction	77	Vascular Surgery	4
33974	Removal of intra-aortic b	77	Vascular Surgery	4
34530	Saphenopopliteal vein a	77	Vascular Surgery	4
35112	Direct repair of aneurysr	77	Vascular Surgery	4
35182	Repair, congenital arteri	77	Vascular Surgery	4
35188	Repair, acquired or trau	77	Vascular Surgery	4
35551	Bypass graft, with vein; ;	77	Vascular Surgery	4
38115	Repair of ruptured splee	77	Vascular Surgery	4
38765	Inguinofemoral lymphad	77	Vascular Surgery	4
39220	Excision of mediastinal t	77	Vascular Surgery	4
43030	Cricopharyngeal myoton	77	Vascular Surgery	4
43605	Biopsy of stomach; by la	77	Vascular Surgery	4
43620	Gastrectomy, total; with	77	Vascular Surgery	4
43645	Laparoscopy, surgical, c	77	Vascular Surgery	4
46261	Hemorrhoidectomy, inte	77	Vascular Surgery	4
46700	Anoplasty, plastic opera	77	Vascular Surgery	4
46936	Destruction of hemorrhc	77	Vascular Surgery	4
47361	Management of liver her	77	Vascular Surgery	4
47510	Introduction of percutane	77	Vascular Surgery	4
47740	Cholecystoenterostomy;	77	Vascular Surgery	4
48000	Placement of drains, pe	77	Vascular Surgery	4
48120	Excision of lesion of par	77	Vascular Surgery	4
50225	Nephrectomy, including	77	Vascular Surgery	4
50365	Renal allotransplantatio	77	Vascular Surgery	4
51590	Cystectomy, complete, v	77	Vascular Surgery	4
51865	Cystorrhaphy, suture of	77	Vascular Surgery	4
55500	Excision of hydrocele of	77	Vascular Surgery	4
57250	Posterior colporrhaphy,	77	Vascular Surgery	4
57280	Colpopexy, abdominal a	77	Vascular Surgery	4
58140	Myomectomy, excision c	77	Vascular Surgery	4
58180	Supracervical abdomina	77	Vascular Surgery	4
58925	Ovarian cystectomy, uni	77	Vascular Surgery	4
60212	Partial thyroid lobectomy	77	Vascular Surgery	4
60521	Thymectomy, partial or t	77	Vascular Surgery	4
63042	Laminotomy (hemilamin	77	Vascular Surgery	4
63301	Vertebral corpectomy (v	77	Vascular Surgery	4
63303	Vertebral corpectomy (v	77	Vascular Surgery	4
63688	Revision or removal of il	77	Vascular Surgery	4
64774	Excision of neuroma; cu	77	Vascular Surgery	4
64802	Sympathectomy, cervica	77	Vascular Surgery	4
43845	Gastric restrictive proce	77	Vascular Surgery	4
15732	Muscle, myocutaneous,	77	Vascular Surgery	3
33507	Repair of anomalous (eg	77	Vascular Surgery	3
15155	Tissue cultured epiderm	77	Vascular Surgery	3

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22015	Incision and drainage, o	77	Vascular Surgery	3
11470	Excision of skin and sub	77	Vascular Surgery	3
15574	Formation of direct or tu	77	Vascular Surgery	3
15958	Excision, trochanteric pr	77	Vascular Surgery	3
19272	Excision of chest wall tu	77	Vascular Surgery	3
21030	Excision of benign tumo	77	Vascular Surgery	3
21630	Radical resection of ster	77	Vascular Surgery	3
24930	Amputation, arm througl	77	Vascular Surgery	3
25332	Arthroplasty, wrist, with e	77	Vascular Surgery	3
25927	Transmetacarpal amput	77	Vascular Surgery	3
26037	Decompressive fascioto	77	Vascular Surgery	3
26123	Fasciectomy, partial pal	77	Vascular Surgery	3
26235	Partial excision (crateriz	77	Vascular Surgery	3
27303	Incision, deep, with oper	77	Vascular Surgery	3
27604	Incision and drainage, le	77	Vascular Surgery	3
28035	Release, tarsal tunnel (p	77	Vascular Surgery	3
28052	Arthrotomy with biopsy;	77	Vascular Surgery	3
28193	Removal of foreign body	77	Vascular Surgery	3
28230	Tenotomy, open, tendor	77	Vascular Surgery	3
28300	Osteotomy; calcaneus (c	77	Vascular Surgery	3
28306	Osteotomy, with or witho	77	Vascular Surgery	3
28308	Osteotomy, with or witho	77	Vascular Surgery	3
32486	Removal of lung, other t	77	Vascular Surgery	3
32488	Removal of lung, other t	77	Vascular Surgery	3
32815	Open closure of major b	77	Vascular Surgery	3
32853	Lung transplant, double	77	Vascular Surgery	3
33465	Replacement, tricuspid v	77	Vascular Surgery	3
35549	Bypass graft, with vein; a	77	Vascular Surgery	3
37160	Venous anastomosis, op	77	Vascular Surgery	3
37181	Venous anastomosis, op	77	Vascular Surgery	3
38380	Suture and/or ligation of	77	Vascular Surgery	3
38550	Excision of cystic hydror	77	Vascular Surgery	3
38720	Cervical lymphadenecto	77	Vascular Surgery	3
39200	Excision of mediastinal e	77	Vascular Surgery	3
39520	Repair, diaphragmatic h	77	Vascular Surgery	3
39540	Repair, diaphragmatic h	77	Vascular Surgery	3
43326	Esophagogastric fundop	77	Vascular Surgery	3
43352	Esophagostomy, fistuliz	77	Vascular Surgery	3
43880	Closure of gastrocolic fis	77	Vascular Surgery	3
44312	Revision of ileostomy; si	77	Vascular Surgery	3
44316	Continent ileostomy (Ko	77	Vascular Surgery	3
44660	Closure of enterovesical	77	Vascular Surgery	3
44850	Suture of mesentery (se	77	Vascular Surgery	3
45108	Anorectal myomectomy	77	Vascular Surgery	3
45190	Destruction of rectal tum	77	Vascular Surgery	3
45800	Closure of rectovesical f	77	Vascular Surgery	3
47300	Marsupialization of cyst	77	Vascular Surgery	3
47360	Management of liver her	77	Vascular Surgery	3
47900	Suture of extrahepatic b	77	Vascular Surgery	3
48001	Placement of drains, pe	77	Vascular Surgery	3
48148	Excision of ampulla of V	77	Vascular Surgery	3
48155	Pancreatectomy, total	77	Vascular Surgery	3

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48540	Internal anastomosis of	77	Vascular Surgery	3
48556	Removal of transplanted	77	Vascular Surgery	3
49250	Umbilectomy, omphalec	77	Vascular Surgery	3
50010	Renal exploration, not n	77	Vascular Surgery	3
50100	Transection or repositio	77	Vascular Surgery	3
50760	Ureteroureterostomy	77	Vascular Surgery	3
51040	Cystostomy, cystotomy	77	Vascular Surgery	3
51840	Anterior vesicourethrope	77	Vascular Surgery	3
55060	Repair of tunica vaginali	77	Vascular Surgery	3
55540	Excision of varicocele or	77	Vascular Surgery	3
55831	Prostatectomy (including	77	Vascular Surgery	3
58960	Laparotomy, for staging	77	Vascular Surgery	3
62362	Implantation or replacen	77	Vascular Surgery	3
63012	Laminectomy with remo	77	Vascular Surgery	3
63045	Laminectomy, facetecto	77	Vascular Surgery	3
63081	Vertebral corpectomy (v	77	Vascular Surgery	3
64704	Neuroplasty; nerve of ha	77	Vascular Surgery	3
64792	Excision of neurofibroma	77	Vascular Surgery	3
64804	Sympathectomy, cervicc	77	Vascular Surgery	3
77778	Interstitial radiation sour	77	Vascular Surgery	3
43886	Gastric restrictive proce	77	Vascular Surgery	3
45402	Laparoscopy, surgical; p	77	Vascular Surgery	3
38770	Pelvic lymphadenectom	77	Vascular Surgery	3
58958	Resection (tumor debulk	77	Vascular Surgery	2
22010	Incision and drainage, o	77	Vascular Surgery	2
11462	Excision of skin and sub	77	Vascular Surgery	2
11463	Excision of skin and sub	77	Vascular Surgery	2
14041	Adjacent tissue transfer	77	Vascular Surgery	2
15570	Formation of direct or tu	77	Vascular Surgery	2
15650	Transfer, intermediate, c	77	Vascular Surgery	2
15740	Flap; island pedicle	77	Vascular Surgery	2
15750	Flap; neurovascular ped	77	Vascular Surgery	2
15756	Free muscle or myocuta	77	Vascular Surgery	2
15757	Free skin flap with micro	77	Vascular Surgery	2
15845	Graft for facial nerve pa	77	Vascular Surgery	2
15941	Excision, ischial pressur	77	Vascular Surgery	2
20902	Bone graft, any donor ar	77	Vascular Surgery	2
21620	Ostectomy of sternum, p	77	Vascular Surgery	2
22532	Arthrodesis, lateral extra	77	Vascular Surgery	2
22533	Arthrodesis, lateral extra	77	Vascular Surgery	2
22610	Arthrodesis, posterior or	77	Vascular Surgery	2
22849	Reinsertion of spinal fixa	77	Vascular Surgery	2
22850	Removal of posterior no	77	Vascular Surgery	2
23066	Biopsy, soft tissue of sh	77	Vascular Surgery	2
23101	Arthrotomy, acromioclav	77	Vascular Surgery	2
23331	Removal of foreign body	77	Vascular Surgery	2
24802	Arthrodesis, elbow joint;	77	Vascular Surgery	2
25000	Incision, extensor tendo	77	Vascular Surgery	2
25023	Decompression fascioto	77	Vascular Surgery	2
25025	Decompression fascioto	77	Vascular Surgery	2
25116	Radical excision of burs	77	Vascular Surgery	2
25270	Repair, tendon or muscl	77	Vascular Surgery	2

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25600	Closed treatment of dist	77	Vascular Surgery	2
25605	Closed treatment of dist	77	Vascular Surgery	2
25905	Amputation, forearm, th	77	Vascular Surgery	2
26034	Incision, bone cortex, ha	77	Vascular Surgery	2
26070	Arthrotomy, with explora	77	Vascular Surgery	2
26075	Arthrotomy, with explora	77	Vascular Surgery	2
26080	Arthrotomy, with explora	77	Vascular Surgery	2
26236	Partial excision (crateriz	77	Vascular Surgery	2
26480	Transfer or transplant of	77	Vascular Surgery	2
26720	Closed treatment of pha	77	Vascular Surgery	2
26991	Incision and drainage, p	77	Vascular Surgery	2
27065	Excision of bone cyst or	77	Vascular Surgery	2
27080	Coccygectomy, primary	77	Vascular Surgery	2
27244	Treatment of intertrocha	77	Vascular Surgery	2
27350	Patellectomy or hemipat	77	Vascular Surgery	2
27580	Arthrodesis, knee, any t	77	Vascular Surgery	2
27635	Excision or curettage of	77	Vascular Surgery	2
28020	Arthrotomy, including ex	77	Vascular Surgery	2
28022	Arthrotomy, including ex	77	Vascular Surgery	2
28024	Arthrotomy, including ex	77	Vascular Surgery	2
28100	Excision or curettage of	77	Vascular Surgery	2
28104	Excision or curettage of	77	Vascular Surgery	2
28171	Radical resection of tum	77	Vascular Surgery	2
28175	Radical resection of tum	77	Vascular Surgery	2
28192	Removal of foreign body	77	Vascular Surgery	2
28222	Tenolysis, flexor, foot; r	77	Vascular Surgery	2
28234	Tenotomy, open, extens	77	Vascular Surgery	2
28304	Osteotomy, tarsal bones	77	Vascular Surgery	2
29826	Arthroscopy, shoulder, s	77	Vascular Surgery	2
30124	Excision dermoid cyst, n	77	Vascular Surgery	2
31614	Tracheostoma revision;	77	Vascular Surgery	2
31800	Suture of tracheal woun	77	Vascular Surgery	2
31805	Suture of tracheal woun	77	Vascular Surgery	2
31830	Revision of tracheostom	77	Vascular Surgery	2
32491	Removal of lung, other t	77	Vascular Surgery	2
32800	Repair lung hernia throu	77	Vascular Surgery	2
32810	Closure of chest wall fol	77	Vascular Surgery	2
32820	Major reconstruction, ch	77	Vascular Surgery	2
33050	Excision of pericardial c	77	Vascular Surgery	2
33130	Resection of external ca	77	Vascular Surgery	2
33404	Construction of apical-a	77	Vascular Surgery	2
33460	Valvectomy, tricuspid va	77	Vascular Surgery	2
33720	Repair sinus of Valsalva	77	Vascular Surgery	2
33945	Heart transplant, with or	77	Vascular Surgery	2
34510	Venous valve transposit	77	Vascular Surgery	2
35005	Direct repair of aneurysr	77	Vascular Surgery	2
35515	Bypass graft, with vein; s	77	Vascular Surgery	2
37140	Venous anastomosis, op	77	Vascular Surgery	2
38381	Suture and/or ligation of	77	Vascular Surgery	2
42420	Excision of parotid tumo	77	Vascular Surgery	2
43020	Esophagotomy, cervical	77	Vascular Surgery	2
43045	Esophagotomy, thoracic	77	Vascular Surgery	2

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43325	Esophagogastric fundop	77	Vascular Surgery	2
43331	Esophagomyotomy (Hel	77	Vascular Surgery	2
43405	Ligation or stapling at ga	77	Vascular Surgery	2
43622	Gastrectomy, total; with	77	Vascular Surgery	2
43825	Gastrojejunostomy; with	77	Vascular Surgery	2
43848	Revision, open, of gastr	77	Vascular Surgery	2
43850	Revision of gastroduode	77	Vascular Surgery	2
44111	Excision of one or more	77	Vascular Surgery	2
44126	Enterectomy, resection o	77	Vascular Surgery	2
44151	Colectomy, total, abdom	77	Vascular Surgery	2
44820	Excision of lesion of me	77	Vascular Surgery	2
45400	Laparoscopy, surgical; p	77	Vascular Surgery	2
45562	Exploration, repair, and	77	Vascular Surgery	2
45563	Exploration, repair, and	77	Vascular Surgery	2
46262	Hemorrhoidectomy, inte	77	Vascular Surgery	2
47362	Management of liver he	77	Vascular Surgery	2
47370	Laparoscopy, surgical, a	77	Vascular Surgery	2
47460	Transduodenal sphincte	77	Vascular Surgery	2
47711	Excision of bile duct tum	77	Vascular Surgery	2
47721	Cholecystoenterostomy;	77	Vascular Surgery	2
48145	Pancreatectomy, distal s	77	Vascular Surgery	2
48152	Pancreatectomy, proxim	77	Vascular Surgery	2
49215	Excision of presacral or	77	Vascular Surgery	2
49904	Omental flap, extra-abdo	77	Vascular Surgery	2
50234	Nephrectomy with total u	77	Vascular Surgery	2
50236	Nephrectomy with total u	77	Vascular Surgery	2
50380	Renal autotransplantatio	77	Vascular Surgery	2
50540	Symphysiotomy for hors	77	Vascular Surgery	2
50900	Ureterorrhaphy, suture c	77	Vascular Surgery	2
51020	Cystotomy or cystostom	77	Vascular Surgery	2
51550	Cystectomy, partial; sim	77	Vascular Surgery	2
51555	Cystectomy, partial; com	77	Vascular Surgery	2
51595	Cystectomy, complete, v	77	Vascular Surgery	2
54405	Insertion of multi-compo	77	Vascular Surgery	2
54522	Orchiectomy, partial	77	Vascular Surgery	2
54640	Orchiopexy, inguinal app	77	Vascular Surgery	2
55041	Excision of hydrocele; b	77	Vascular Surgery	2
55840	Prostatectomy, retropub	77	Vascular Surgery	2
57106	Vaginectomy, partial ren	77	Vascular Surgery	2
58805	Drainage of ovarian cyst	77	Vascular Surgery	2
60270	Thyroidectomy, includin	77	Vascular Surgery	2
60520	Thymectomy, partial or t	77	Vascular Surgery	2
61304	Craniectomy or cranioto	77	Vascular Surgery	2
61312	Craniectomy or cranioto	77	Vascular Surgery	2
61886	Insertion or replacement	77	Vascular Surgery	2
62350	Implantation, revision or	77	Vascular Surgery	2
63056	Transpedicular approach	77	Vascular Surgery	2
63302	Vertebral corpectomy (v	77	Vascular Surgery	2
63660	Revision or removal of s	77	Vascular Surgery	2
64716	Neuroplasty and/or trans	77	Vascular Surgery	2
64784	Excision of neuroma; m	77	Vascular Surgery	2
64790	Excision of neurofibroma	77	Vascular Surgery	2

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64834	Suture of one nerve; ha	77	Vascular Surgery	2
64868	Anastomosis; facial-hyp	77	Vascular Surgery	2
43887	Gastric restrictive proce	77	Vascular Surgery	2
43888	Gastric restrictive proce	77	Vascular Surgery	2
43771	Laparoscopy, surgical, g	77	Vascular Surgery	2
43773	Laparoscopy, surgical, g	77	Vascular Surgery	2
43774	Laparoscopy, surgical, g	77	Vascular Surgery	1
44157	Colectomy, total, abdom	77	Vascular Surgery	1
44158	Colectomy, total, abdom	77	Vascular Surgery	1
33505	Repair of anomalous co	77	Vascular Surgery	1
11471	Excision of skin and sub	77	Vascular Surgery	1
15360	Tissue cultured allogene	77	Vascular Surgery	1
15365	Tissue cultured allogene	77	Vascular Surgery	1
15630	Delay of flap or sectionir	77	Vascular Surgery	1
15758	Free fascial flap with mic	77	Vascular Surgery	1
15770	Graft; derma-fat-fascia	77	Vascular Surgery	1
15839	Excision, excessive skin	77	Vascular Surgery	1
15944	Excision, ischial pressur	77	Vascular Surgery	1
15952	Excision, trochanteric pr	77	Vascular Surgery	1
19112	Excision of lactiferous d	77	Vascular Surgery	1
19316	Mastopexy	77	Vascular Surgery	1
19330	Removal of mammary ir	77	Vascular Surgery	1
19355	Correction of inverted ni	77	Vascular Surgery	1
19366	Breast reconstruction wi	77	Vascular Surgery	1
19371	Periprosthetic capsulect	77	Vascular Surgery	1
20694	Removal, under anesthe	77	Vascular Surgery	1
20900	Bone graft, any donor ar	77	Vascular Surgery	1
20920	Fascia lata graft; by strip	77	Vascular Surgery	1
20969	Free osteocutaneous fla	77	Vascular Surgery	1
21502	Incision and drainage, d	77	Vascular Surgery	1
21510	Incision, deep, with oper	77	Vascular Surgery	1
21616	Excision first and/or cer	77	Vascular Surgery	1
21800	Closed treatment of rib f	77	Vascular Surgery	1
22101	Partial excision of poste	77	Vascular Surgery	1
22112	Partial excision of verteb	77	Vascular Surgery	1
22325	Open treatment and/or r	77	Vascular Surgery	1
22327	Open treatment and/or r	77	Vascular Surgery	1
22590	Arthrodesis, posterior te	77	Vascular Surgery	1
22600	Arthrodesis, posterior or	77	Vascular Surgery	1
22802	Arthrodesis, posterior, fo	77	Vascular Surgery	1
22804	Arthrodesis, posterior, fo	77	Vascular Surgery	1
23044	Arthrotomy, acromioclav	77	Vascular Surgery	1
23106	Arthrotomy; sternoclavic	77	Vascular Surgery	1
23125	Claviclectomy; total	77	Vascular Surgery	1
23170	Sequestrectomy (eg, for	77	Vascular Surgery	1
23182	Partial excision (crateriz	77	Vascular Surgery	1
23470	Arthroplasty, glenohume	77	Vascular Surgery	1
23480	Osteotomy, clavicle, with	77	Vascular Surgery	1
23500	Closed treatment of clav	77	Vascular Surgery	1
23515	Open treatment of clavic	77	Vascular Surgery	1
23600	Closed treatment of pro	77	Vascular Surgery	1
23650	Closed treatment of sho	77	Vascular Surgery	1

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23655	Closed treatment of sho	77	Vascular Surgery	1
23680	Open treatment of shou	77	Vascular Surgery	1
23900	Interthoracoscapular am	77	Vascular Surgery	1
23920	Disarticulation of should	77	Vascular Surgery	1
23935	Incision, deep, with oper	77	Vascular Surgery	1
24000	Arthrotomy, elbow, inclu	77	Vascular Surgery	1
24006	Arthrotomy of the elbow	77	Vascular Surgery	1
24120	Excision or curettage of	77	Vascular Surgery	1
24305	Tendon lengthening, upr	77	Vascular Surgery	1
24310	Tenotomy, open, elbow	77	Vascular Surgery	1
24516	Treatment of humeral sh	77	Vascular Surgery	1
24925	Amputation, arm through	77	Vascular Surgery	1
25031	Incision and drainage, fo	77	Vascular Surgery	1
25035	Incision, deep, bone cor	77	Vascular Surgery	1
25066	Biopsy, soft tissue of fo	77	Vascular Surgery	1
25112	Excision of ganglion, wri	77	Vascular Surgery	1
25115	Radical excision of burs	77	Vascular Surgery	1
25119	Synovectomy, extensor	77	Vascular Surgery	1
25210	Carpectomy; one bone	77	Vascular Surgery	1
25290	Tenotomy, open, flexor	77	Vascular Surgery	1
25320	Capsulorrhaphy or recor	77	Vascular Surgery	1
25337	Reconstruction for stabl	77	Vascular Surgery	1
25920	Disarticulation through v	77	Vascular Surgery	1
26030	Drainage of palmar burs	77	Vascular Surgery	1
26117	Radical resection of tum	77	Vascular Surgery	1
26121	Fasciectomy, palm only,	77	Vascular Surgery	1
26135	Synovectomy, metacarp	77	Vascular Surgery	1
26185	Sesamoidectomy, thum	77	Vascular Surgery	1
26210	Excision or curettage of	77	Vascular Surgery	1
26230	Partial excision (crateriz	77	Vascular Surgery	1
26350	Repair or advancement,	77	Vascular Surgery	1
26426	Repair of extensor tend	77	Vascular Surgery	1
26556	Transfer, free toe joint, v	77	Vascular Surgery	1
26580	Repair cleft hand	77	Vascular Surgery	1
26600	Closed treatment of met	77	Vascular Surgery	1
26605	Closed treatment of met	77	Vascular Surgery	1
26740	Closed treatment of artic	77	Vascular Surgery	1
26860	Arthrodesis, interphalan	77	Vascular Surgery	1
27005	Tenotomy, hip flexor(s),	77	Vascular Surgery	1
27030	Arthrotomy, hip, with dra	77	Vascular Surgery	1
27066	Excision of bone cyst or	77	Vascular Surgery	1
27070	Partial excision (crateriz	77	Vascular Surgery	1
27071	Partial excision (crateriz	77	Vascular Surgery	1
27090	Removal of hip prosthes	77	Vascular Surgery	1
27091	Removal of hip prosthes	77	Vascular Surgery	1
27125	Hemiarthroplasty, hip, p	77	Vascular Surgery	1
27134	Revision of total hip arth	77	Vascular Surgery	1
27137	Revision of total hip arth	77	Vascular Surgery	1
27217	Open treatment of anter	77	Vascular Surgery	1
27250	Closed treatment of hip	77	Vascular Surgery	1
27290	Interpelviabdominal amp	77	Vascular Surgery	1
27307	Tenotomy, percutaneous	77	Vascular Surgery	1

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27310	Arthrotomy, knee, with e	77	Vascular Surgery	1
27332	Arthrotomy, with excisio	77	Vascular Surgery	1
27347	Excision of lesion of me	77	Vascular Surgery	1
27365	Radical resection of tum	77	Vascular Surgery	1
27390	Tenotomy, open, hamst	77	Vascular Surgery	1
27391	Tenotomy, open, hamst	77	Vascular Surgery	1
27430	Quadricepsplasty (eg, B	77	Vascular Surgery	1
27487	Revision of total knee ar	77	Vascular Surgery	1
27499	Decompression fascioto	77	Vascular Surgery	1
27535	Open treatment of tibial	77	Vascular Surgery	1
27540	Open treatment of interc	77	Vascular Surgery	1
27550	Closed treatment of kne	77	Vascular Surgery	1
27612	Arthrotomy, posterior ca	77	Vascular Surgery	1
27620	Arthrotomy, ankle, with j	77	Vascular Surgery	1
27626	Arthrotomy, with synove	77	Vascular Surgery	1
27650	Repair, primary, open or	77	Vascular Surgery	1
27680	Tenolysis, flexor or exte	77	Vascular Surgery	1
27687	Gastrocnemius recessio	77	Vascular Surgery	1
27691	Transfer or transplant of	77	Vascular Surgery	1
27700	Arthroplasty, ankle;	77	Vascular Surgery	1
27722	Repair of nonunion or m	77	Vascular Surgery	1
27784	Open treatment of proxi	77	Vascular Surgery	1
27870	Arthrodesis, ankle, oper	77	Vascular Surgery	1
28050	Arthrotomy with biopsy;	77	Vascular Surgery	1
28054	Arthrotomy with biopsy;	77	Vascular Surgery	1
28092	Excision of lesion, tendc	77	Vascular Surgery	1
28103	Excision or curettage of	77	Vascular Surgery	1
28108	Excision or curettage of	77	Vascular Surgery	1
28116	Ostectomy, excision of t	77	Vascular Surgery	1
28220	Tenolysis, flexor, foot; si	77	Vascular Surgery	1
28240	Tenotomy, lengthening,	77	Vascular Surgery	1
28270	Capsulotomy; metatarsc	77	Vascular Surgery	1
28289	Hallux rigidus correction	77	Vascular Surgery	1
28292	Correction, hallux valgus	77	Vascular Surgery	1
28296	Correction, hallux valgus	77	Vascular Surgery	1
28341	Reconstruction, toe, ma	77	Vascular Surgery	1
28505	Open treatment of fractu	77	Vascular Surgery	1
29824	Arthroscopy, shoulder, s	77	Vascular Surgery	1
29827	Arthroscopy, shoulder, s	77	Vascular Surgery	1
29888	Arthroscopically aided a	77	Vascular Surgery	1
29899	Arthroscopy, ankle (tibi	77	Vascular Surgery	1
30460	Rhinoplasty for nasal de	77	Vascular Surgery	1
30620	Septal or other intranas	77	Vascular Surgery	1
31360	Laryngectomy; total, with	77	Vascular Surgery	1
31760	Tracheoplasty; intrathor	77	Vascular Surgery	1
32151	Thoracotomy, major; with	77	Vascular Surgery	1
32200	Pneumonostomy; with o	77	Vascular Surgery	1
32654	Thoracoscopy, surgical;	77	Vascular Surgery	1
32852	Lung transplant, single;	77	Vascular Surgery	1
32905	Thoracoplasty, Schede f	77	Vascular Surgery	1
32906	Thoracoplasty, Schede f	77	Vascular Surgery	1
33140	Transmyocardial laser re	77	Vascular Surgery	1

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33238	Removal of permanent t	77	Vascular Surgery	1
33251	Operative ablation of su	77	Vascular Surgery	1
33261	Operative ablation of ve	77	Vascular Surgery	1
33310	Cardiotomy, exploratory	77	Vascular Surgery	1
33315	Cardiotomy, exploratory	77	Vascular Surgery	1
33335	Insertion of graft, aorta c	77	Vascular Surgery	1
33403	Valvuloplasty, aortic valv	77	Vascular Surgery	1
33415	Resection or incision of	77	Vascular Surgery	1
33417	Aortoplasty (gusset) for	77	Vascular Surgery	1
33422	Valvotomy, mitral valve;	77	Vascular Surgery	1
33474	Valvotomy, pulmonary v	77	Vascular Surgery	1
33475	Replacement, pulmonar	77	Vascular Surgery	1
33476	Right ventricular resecti	77	Vascular Surgery	1
33478	Outflow tract augmentat	77	Vascular Surgery	1
33500	Repair of coronary arter	77	Vascular Surgery	1
33501	Repair of coronary arter	77	Vascular Surgery	1
33502	Repair of anomalous co	77	Vascular Surgery	1
33612	Repair of double outlet r	77	Vascular Surgery	1
33647	Repair of atrial septal de	77	Vascular Surgery	1
33681	Closure of single ventric	77	Vascular Surgery	1
33690	Banding of pulmonary a	77	Vascular Surgery	1
33702	Repair sinus of Valsalva	77	Vascular Surgery	1
33767	Shunt; superior vena ca	77	Vascular Surgery	1
33776	Repair of transposition c	77	Vascular Surgery	1
33779	Repair of transposition c	77	Vascular Surgery	1
33820	Repair of patent ductus	77	Vascular Surgery	1
33845	Excision of coarctation c	77	Vascular Surgery	1
33851	Excision of coarctation c	77	Vascular Surgery	1
33910	Pulmonary artery embol	77	Vascular Surgery	1
33917	Repair of pulmonary arte	77	Vascular Surgery	1
33980	Removal of ventricular a	77	Vascular Surgery	1
35022	Direct repair of aneurysr	77	Vascular Surgery	1
35180	Repair, congenital arteri	77	Vascular Surgery	1
35207	Repair blood vessel, dire	77	Vascular Surgery	1
35241	Repair blood vessel with	77	Vascular Surgery	1
35645	Bypass graft, with other	77	Vascular Surgery	1
36261	Revision of implanted in	77	Vascular Surgery	1
36262	Removal of implanted in	77	Vascular Surgery	1
38101	Splenectomy; partial (se	77	Vascular Surgery	1
38382	Suture and/or ligation of	77	Vascular Surgery	1
39503	Repair, neonatal diaphra	77	Vascular Surgery	1
41112	Excision of lesion of ton	77	Vascular Surgery	1
42408	Excision of sublingual sa	77	Vascular Surgery	1
42410	Excision of parotid tumo	77	Vascular Surgery	1
42415	Excision of parotid tumo	77	Vascular Surgery	1
42426	Excision of parotid tumo	77	Vascular Surgery	1
43101	Excision of lesion, esopl	77	Vascular Surgery	1
43116	Partial esophagectomy,	77	Vascular Surgery	1
43121	Partial esophagectomy,	77	Vascular Surgery	1
43123	Partial esophagectomy,	77	Vascular Surgery	1
43124	Total or partial esophag	77	Vascular Surgery	1
43300	Esophagoplasty (plastic	77	Vascular Surgery	1

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43312	Esophagoplasty (plastic	77	Vascular Surgery	1
43351	Esophagostomy, fistuliza	77	Vascular Surgery	1
43410	Suture of esophageal w	77	Vascular Surgery	1
43425	Closure of esophagosto	77	Vascular Surgery	1
43520	Pyloromyotomy, cutting	77	Vascular Surgery	1
43641	Vagotomy including pylc	77	Vascular Surgery	1
43865	Revision of gastrojejuna	77	Vascular Surgery	1
45000	Transrectal drainage of	77	Vascular Surgery	1
45114	Proctectomy, partial, wit	77	Vascular Surgery	1
45116	Proctectomy, partial, wit	77	Vascular Surgery	1
45126	Pelvic exenteration for c	77	Vascular Surgery	1
45150	Division of stricture of re	77	Vascular Surgery	1
45160	Excision of rectal tumor	77	Vascular Surgery	1
45805	Closure of rectovesical f	77	Vascular Surgery	1
46258	Hemorrhoidectomy, inte	77	Vascular Surgery	1
46285	Surgical treatment of an	77	Vascular Surgery	1
46288	Closure of anal fistula w	77	Vascular Surgery	1
46750	Sphincteroplasty, anal, f	77	Vascular Surgery	1
47122	Hepatectomy, resection	77	Vascular Surgery	1
47530	Revision and/or reinsert	77	Vascular Surgery	1
47570	Laparoscopy, surgical; c	77	Vascular Surgery	1
47620	Cholecystectomy with ex	77	Vascular Surgery	1
47630	Biliary duct stone extrac	77	Vascular Surgery	1
47720	Cholecystoenterostomy;	77	Vascular Surgery	1
47765	Anastomosis, of intrahe	77	Vascular Surgery	1
48146	Pancreatectomy, distal,	77	Vascular Surgery	1
48154	Pancreatectomy, proxim	77	Vascular Surgery	1
48545	Pancreatorrhaphy for inj	77	Vascular Surgery	1
48547	Duodenal exclusion with	77	Vascular Surgery	1
48548	Pancreaticojejunostomy	77	Vascular Surgery	1
49501	Repair initial inguinal he	77	Vascular Surgery	1
49582	Repair umbilical hernia,	77	Vascular Surgery	1
49600	Repair of small omphalc	77	Vascular Surgery	1
49906	Free omental flap with m	77	Vascular Surgery	1
50020	Drainage of perirenal or	77	Vascular Surgery	1
50280	Excision or unroofing of	77	Vascular Surgery	1
50600	Ureterotomy with explor	77	Vascular Surgery	1
50722	Ureterolysis for ovarian	77	Vascular Surgery	1
50727	Revision of urinary-cuta	77	Vascular Surgery	1
50728	Revision of urinary-cuta	77	Vascular Surgery	1
50780	Ureteroneocystostomy;	77	Vascular Surgery	1
50785	Ureteroneocystostomy;	77	Vascular Surgery	1
50820	Ureteroileal conduit (ilea	77	Vascular Surgery	1
50830	Urinary undiversion (eg,	77	Vascular Surgery	1
50930	Closure of ureteroviscer	77	Vascular Surgery	1
51500	Excision of urachal cyst	77	Vascular Surgery	1
51530	Cystotomy; for excision	77	Vascular Surgery	1
51597	Pelvic exenteration, com	77	Vascular Surgery	1
51990	Laparoscopy, surgical; u	77	Vascular Surgery	1
53215	Urethrectomy, total, incl	77	Vascular Surgery	1
53230	Excision of urethral dive	77	Vascular Surgery	1
53415	Urethroplasty, transpubi	77	Vascular Surgery	1

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53446	Removal of inflatable urethral	77	Vascular Surgery	1
53449	Repair of inflatable urethral	77	Vascular Surgery	1
54420	Corpora cavernosa-saphenous	77	Vascular Surgery	1
54530	Orchiectomy, radical, for	77	Vascular Surgery	1
54860	Epididymectomy; unilateral	77	Vascular Surgery	1
55150	Resection of scrotum	77	Vascular Surgery	1
55530	Excision of varicocele or	77	Vascular Surgery	1
55810	Prostatectomy, perineal	77	Vascular Surgery	1
55821	Prostatectomy (including	77	Vascular Surgery	1
56620	Vulvectomy simple; partial	77	Vascular Surgery	1
57010	Colpotomy; with drainage	77	Vascular Surgery	1
57240	Anterior colporrhaphy, re	77	Vascular Surgery	1
57282	Colpopexy, vaginal; extr	77	Vascular Surgery	1
57288	Sling operation for stres	77	Vascular Surgery	1
57308	Closure of rectovaginal f	77	Vascular Surgery	1
58152	Total abdominal hyster	77	Vascular Surgery	1
58200	Total abdominal hyster	77	Vascular Surgery	1
58210	Radical abdominal hyste	77	Vascular Surgery	1
58545	Laparoscopy, surgical, r	77	Vascular Surgery	1
58950	Resection (initial) of ova	77	Vascular Surgery	1
58951	Resection (initial) of ova	77	Vascular Surgery	1
58952	Resection (initial) of ova	77	Vascular Surgery	1
58953	Bilateral salpingo-oopho	77	Vascular Surgery	1
58954	Bilateral salpingo-oopho	77	Vascular Surgery	1
58956	Bilateral salpingo-oopho	77	Vascular Surgery	1
60254	Thyroidectomy, total or s	77	Vascular Surgery	1
60505	Parathyroidectomy or ex	77	Vascular Surgery	1
60545	Adrenalectomy, partial c	77	Vascular Surgery	1
61140	Burr hole(s) or trephine;	77	Vascular Surgery	1
61154	Burr hole(s) with evacua	77	Vascular Surgery	1
61315	Craniectomy or cranioto	77	Vascular Surgery	1
61322	Craniectomy or cranioto	77	Vascular Surgery	1
61711	Anastomosis, arterial, ex	77	Vascular Surgery	1
61793	Stereotactic radiosurger	77	Vascular Surgery	1
62116	Reduction of craniomeg	77	Vascular Surgery	1
62192	Creation of shunt; subar	77	Vascular Surgery	1
62220	Creation of shunt; ventri	77	Vascular Surgery	1
62256	Removal of complete ce	77	Vascular Surgery	1
62258	Removal of complete ce	77	Vascular Surgery	1
62287	Aspiration or decompres	77	Vascular Surgery	1
63102	Vertebral corpectomy (v	77	Vascular Surgery	1
63744	Replacement, irrigation	77	Vascular Surgery	1
64712	Neuroplasty, major perip	77	Vascular Surgery	1
64752	Transection or avulsion	77	Vascular Surgery	1
64772	Transection or avulsion	77	Vascular Surgery	1
64782	Excision of neuroma; ha	77	Vascular Surgery	1
64809	Sympathectomy, thorac	77	Vascular Surgery	1
64831	Suture of digital nerve, h	77	Vascular Surgery	1
64856	Suture of major peripher	77	Vascular Surgery	1
66821	Discission of secondary	77	Vascular Surgery	1
66984	Extracapsular cataract r	77	Vascular Surgery	1
69120	Excision external ear; co	77	Vascular Surgery	1

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33203	Insertion of epicardial el	77	Vascular Surgery	1	
33675	Closure of multiple ventr	77	Vascular Surgery	1	
33724	Repair of isolated partia	77	Vascular Surgery	1	
33726	Repair of pulmonary ver	77	Vascular Surgery	1	
43772	Laparoscopy, surgical, g	77	Vascular Surgery	1	
25109	Excision of tendon, forea	77	Vascular Surgery	1	
38780	Retroperitoneal transab	77	Vascular Surgery	0	
33676	Closure of multiple ventr	77	Vascular Surgery	0	
33677	Closure of multiple ventr	77	Vascular Surgery	0	
64910	Nerve repair; with synthe	77	Vascular Surgery	0	
64911	Nerve repair; with autog	77	Vascular Surgery	0	257,475
31255			Ophthalmology		
31256			Ophthalmology		
31267			Ophthalmology		
31276			Ophthalmology		
31287			Ophthalmology		
31288			Ophthalmology		
67195			Ophthalmology		