TO: NQF Members and Public

FR: NQF Staff

RE: Pre-voting review for National Voluntary Consensus Standards: Surgery Endorsement Maintenance 2010, Phase II: A Consensus Report

DA: September 27, 2011

The rate of surgical procedures continues to increase each year, as is the number and type of sites performing surgical procedures. Measuring quality of care across the many and varied locations in which surgical procedures are performed is important to ensure safe, cost-effective care consistent with the current evidentiary base. The recommended measures include measures endorsed prior to June 2008 that have undergone maintenance. The measures considered in this phase address a wide range of surgeries and surgical support processes, and they represent the second of two groups of surgery-related measures considered in this endorsement maintenance project.

A 24-member Steering Committee representing a range of stakeholder perspectives was appointed to review a total of 40 candidate and endorsed standards for quality performance in surgical care in this phase. Eight measures are pending harmonization actions by developers and final recommendations will be in the addendum report that will be available for NQF Public and Member comment and Member vote in the coming months. The Steering Committee recommended 24 measures. Of those recommended, 18 are National Quality Forum (NQF)-endorsed[®] measures that have been updated as part of the maintenance process; 6 newly submitted measures are recommended for initial endorsement.

The draft document, *National Voluntary Consensus Standards: Surgery Endorsement Maintenance 2010, Phase II: A Consensus Report* is posted on the NQF website along with the following additional information:

- <u>Measure submission forms;</u> and
- <u>Meeting and call summaries</u> from the Steering Committee's discussions.

Pursuant to section II.A of the Consensus Development Process v. 1.9, this draft document, along with the accompanying material, is being provided to you at this time for purposes of review and comment only and is not intended to be used for voting purposes. You may post your comments and view the comments of others on the <u>NQF website</u>.

Please note that the organization of this report has been modified, similar to the recent Phase I and End Stage Renal Disease reports. The intention is to begin with high-level information (e.g., overarching evaluation issues and lists of measures) followed by more detail about the evaluation ratings and rationale in the measure evaluation summary tables. Hyperlinks are included to navigate to the detailed measure specifications for the recommended measures in Appendix A and to access all submitted measure information posted on the project web page. We are interested in your feedback and any suggestions on this revised report format and organization. You can submit your comments about the organization of the report under general comments.

NQF Member comments must be submitted no later than 6:00 pm ET, October 26, 2011. Public comments must be submitted no later than 6:00 pm ET, October 19, 2011.

Thank you for your interest in NQF's work. We look forward to your review and comments.

NATIONAL VOLUNTARY CONSENSUS STANDARDS: SURGERY ENDORSEMENT MAINTENANCE 2010, PHASE II: A CONSENSUS REPORT

DRAFT REPORT FOR COMMENTING

SEPTEMBER 27, 2011

NATIONAL VOLUNTARY CONSENSUS STANDARDS: SURGERY ENDORSEMENT MAINTENANCE 2010, PHASE II: A CONSENSUS REPORT

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NATIONAL VOLUNTARY CONSENSUS STANDARDS: SURGERY ENDORSEMENT MAINTENANCE 2010, PHASE II: A CONSENSUS REPORT

3 **EXECUTIVE SUMMARY**

4

5	The rate of surgical procedures continues to rise each year, as has the number and type of sites performing
6	surgical procedures. In 2006, 46 million inpatient surgeries were performed in the United States. ¹ In
7	addition, more than 53 million procedures were performed in ambulatory surgery centers. ² In 2007, there
8	were 4,964 Medicare-certified ambulatory surgery centers, which represents a 64 percent increase from
9	2000. ³ Assessing quality of care, using measures that reflect the current evidentiary base, across the many
10	and varied locations in which surgical procedures are performed is important to ensure safe, cost-effective
11	care. The National Quality Forum (NQF) has endorsed a number of consensus standards for surgical
12	procedures and care of surgical patients over the past six years. This evaluation of all NQF-endorsed [®]
13	surgery-related measures and consideration of new measures will ensure the currency and relevance of
14	NQF's portfolio of voluntary consensus standards.
15	
16	This report presents the results of the evaluation of 40 measures considered under NQF's Consensus
17	Development Process (CDP). Twenty-four measures are recommended for endorsement as voluntary
18	consensus standards suitable for public accountability and quality improvement. Eighteen of the measures
19	are previously endorsed measures that have undergone maintenance; six are newly submitted measures
20	recommended for initial endorsement.
21	
22	• 0134 Use of internal mammary artery (IMA) in coronary artery bypass graft (CABG)
23	(STS)
24	• 0300 Cardiac surgery patients with controlled postoperative blood glucose (CMS)
25	• 0127 Preoperative beta blockade (STS)
26	• 0284 Surgery patients on beta blocker therapy prior to admission who received a beta
27	blocker during the perioperative period (CMS)
28	• 0117 Beta blockade at discharge (STS)
29	• 0273 Perforated appendix admission rate (PQI 2) (AHRQ)
30	• 0265 Hospital transfer/admission (ASC Quality Collaboration)
31	• 1519 Statin therapy at discharge after lower extremity bypass (LEB) (SVS)

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32	•	1540 Postoperative stroke or death in asymptomatic patients undergoing carotid
33		endarterectomy (SVS)
34	•	1543 Postoperative stroke or death in asymptomatic patients undergoing carotid artery
35		stenting (SVS)
36	•	0339 RACHS-1 pediatric heart surgery mortality (AHRQ)
37	•	0340 Pediatric heart surgery volume (PDI 7) (AHRQ)
38	٠	0352 Failure to rescue in-hospital mortality (risk adjusted) (CHOP)
39	•	0353 Failure to rescue 30-day mortality (risk adjusted) (CHOP)
40	•	0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
41		(AHRQ)
42	•	0515 Ambulatory surgery patients with appropriate method of hair removal (ASC Quality
43		Collaboration)
44	•	0301 Surgery patients with appropriate hair removal (reserve status) (CMS)
45	٠	1550 Hospital-level risk-standardized complication rate (RSCR) following elective
46		primary total hip arthroplasty (THA) and total knee arthroplasty (TKA) (CMS)
47	•	1551 Hospital-level 30-day all-cause risk-standardized readmission rate (RSRR)
48		following elective primary total hip arthroplasty (THA) and total knee arthroplasty
49		(TKA) (CMS)
50	•	1536 Cataracts: Improvement in patient's visual function within 90 days following
51		cataract surgery (AAO and Hoskins Center for Quality Eye Care)
52	•	0528 Prophylactic antibiotic selection for surgical patients (CMS)
53	•	0126 Selection of antibiotic prophylaxis for cardiac surgery patients (STS)
54	•	0264 Prophylactic intravenous (IV) antibiotic timing (ASC Quality Collaboration)
55	•	0527 Prophylactic antibiotic received within 1 hour prior to surgical incision (CMS)
56		

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BACKGROUND 59

60

The rate of surgical procedures continues to rise each year, as has the number and type of sites performing 61 surgical procedures. In 2006, 46 million inpatient surgeries were performed in the United States.⁴ In 62 addition, more than 53 million procedures were performed in ambulatory surgery centers.⁵ In 2007. there 63 64 were 4,964 Medicare-certified ambulatory surgery centers, which represents a 64 percent increase from 65 2000.⁶ Assessing quality of care, using measures that reflect the current evidentiary base, across the many 66 and varied locations in which surgical procedures are performed is important to ensure safe, cost-effective 67 care. The National Quality Forum (NQF) has endorsed a number of consensus standards for surgical 68 procedures and care of surgical patients over the past six years. The ongoing evaluation and updating of all NOF-endorsed[®] surgical measures and consideration of new measures will ensure the currency and 69 70 relevance of NQF's portfolio of voluntary consensus standards. 71

72 The recommended measures include measures that have undergone the NQF maintenance as well as

73 newly submitted measures for initial endorsement. The former update NQF-endorsed surgery-related

74 measures and the latter continue to expand the available armamentarium array of surgery-related

75 measures. Both facilitate efforts to provide high-quality care to patients undergoing surgery.

76 77

STRATEGIC DIRECTIONS FOR NQF

78 NQF's mission includes three parts: 1) setting national priorities and goals for performance improvement;

79 2) endorsing national consensus standards for measuring and publicly reporting on performance; and 3)

80 promoting the attainment of national goals through education and outreach programs. As greater numbers

81 of quality (including safety) measures are developed and brought to NQF for consideration of

82 endorsement, it is incumbent on NQF to assist stakeholders to "measure what makes a difference" and

83 address what is important to achieve the best outcomes for patients and populations.

84

85 Several strategic issues have been identified to guide consideration of candidate consensus standards:

86 DRIVE TOWARD HIGH PERFORMANCE. Over time, the bar of performance expectations should 87 be raised to encourage achievement of higher levels of system performance.

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88 EMPHASIZE COMPOSITES. Composite measures provide much-needed summary information

89 pertaining to multiple dimensions of performance and are more comprehensible to patients and

- 90 consumers.
- 91

MOVE TOWARD OUTCOME MEASUREMENT. Outcome measures provide information of keen interest to consumers and purchasers, and when coupled with healthcare process measures, they provide useful and actionable information to providers. Outcome measures also focus attention on much-needed system-level improvements, since achieving the best patient outcomes often requires carefully designed care processes, teamwork, and coordinated action on the part of many providers.

98 CONSIDER DISPARITIES IN ALL WE DO. Some of the greatest performance gaps relate to care of
 99 minority populations. Particular attention should be focused on identifying disparities-sensitive
 100 performance measures and on identifying the most relevant race/ethnicity/language/socioeconomic strata
 101 for reporting purposes.

102 NATIONAL PRIORITIES PARTNERSHIP

103
104 NQF seeks to endorse measures that address the National Priorities and Goals of the NQF-convened
105 National Priorities Partnership.⁷ The Partnership represents those who receive, pay for, provide, and
106 evaluate healthcare. The National Priorities and Goals focus on these areas:

- 107 patient and family engagement,
- 108 safety,
- 109 care coordination,
- 110 palliative and end-of-life care,
- 111 equitable access,
- 112 elimination of overuse,
- 113 population health, and
- infrastructure supports.

115 **RELATED NQF WORK**

116

- 117 In 2004, NQF endorsed 21 consensus standards for cardiac surgery under the National Voluntary
- 118 <u>Consensus Standards for Cardiac Surgery</u>⁸ project, the largest number of surgical measures endorsed in a
- single project. NQF has endorsed consensus standards applicable to surgery in a number of other projects
- 120 including National Voluntary Consensus Standards for Hospital Care: Specialty Clinician Performance
- 121 Measures⁹ and National Voluntary Consensus Standards for Hospital Care 2007: Performance
- 122 <u>Measures</u>.¹⁰

123 NQF'S CONSENSUS DEVELOPMENT PROCESS

124

125 Phase II of NQF's National Voluntary Consensus Standards for Surgery Care project seeks to endorse 25

126 measures for quality improvement and public accountability. Of these, 19 are endorsed measures that

127 have been updated for maintenance; two are brought forward from Phase I. Six are newly submitted

128 measures for initial endorsement.

129 Evaluating Potential Consensus Standards

- 130 Candidate consensus standards were solicited through a Call for Measures on November 15, 2010.
- 131 Additionally, surgery-related measures endorsed prior to June 2008 were brought into the project as part
- 132 of NQF's endorsement maintenance process. Forty measures were evaluated for suitability as voluntary
- 133 consensus standards for quality improvement and public accountability using NQF's standard evaluation
- 134 <u>criteria</u>.¹¹ The candidate consensus standards were evaluated against the 2009 version of the measure
- 135 evaluation criteria (prior to implementing the task force recommendations). Steering Committee
- 136 subgroups rated each measure's strengths and weaknesses using the criteria and subcriteria to assist the
- 137 Committee in making recommendations. The 24-member, multi-stakeholder Committee provided final
- 138 evaluations of the four main criteria—importance to measure and report, scientific acceptability of the
- 139 measure properties, usability, and feasibility—and made endorsement recommendations. Measure
- 140 developers were available during Committee discussions to respond to questions and clarify issues or
- 141 concerns.

142 **Overarching Measure Evaluation Issues**

- 143 The Committee discussed several overarching issues, which, for some measures, factored into the
- 144 Committee's ratings and recommendations.
- 145 Clarity of Measure Specifications

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146 Committee members requested clarification of a number of measure specifications related to

- 147 incompleteness of specifications, inconsistencies in language, and construction of algorithms. The
- 148 Committee considered the documents and appendices that were provided as attachments to the measure
- submissions to be useful in evaluating the measures; however, it urged measure developers to include all
- 150 pertinent information within the submission forms to ensure accurate understanding of the measures for
- 151 potential users and to provide clarity to the public.
- 152

153 Current Evidence and Relationship to Outcomes

154 The Committee expressed its preference for measures that provide clear and direct evidence of the 155 measure's proximity to an improved outcome and in some cases asked measure developers to consider

156 development of such measures as replacements for existing measures. Ensuring that the evidence

157 provided to support the measure is current was highlighted, particularly for measures undergoing

158 maintenance.

159 **Disparities**

160 The Committee noted that a number of measure submissions provided negligible information on

161 disparities. In response, the Committee requested measure developers to submit additional information

162 or, in the absence of disparities information, a plan to collect data in a way that permits disparities

- analyses in the future.
- 164

165 *Impact on Quality*

The Committee suggested measure developers provide detail on how their NQF-endorsed measure(s)
have impacted quality since initial endorsement. The Committee considered such information as vital to
the process of deciding whether a measure should retain endorsement.

169

170 Measures Recommended for Endorsement and Placement in Reserve Status

171 The Committee reviewed the NQF criteria for endorsed measures that continue to meet endorsement

172 criteria during maintenance review but are deemed not to meet the criterion of "importance" due to

- 173 having such a high rate of performance with little to no variation as outlined in subcriterion 1b.
- 174 Discussed tentatively as an inactive status, such measures will be considered placed in "Reserve Status"
- signifying that they remained endorsed and in reserve until such time that they should be put back in use.
- 176 There was concern that not continuing endorsement of a maintenance measure with a small performance
- 177 gap could lead to reduced attention and decreased compliance with the measure. NQF will monitor the

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- 178 implications of the new status. The Committee noted that several maintenance measures could be
- 179 considered for this status.
- 180

181 Participation in Registries

A number of measures that are advanced for continued endorsement rely on registry data, although they do not require participation in the identified registry. In its continued discussion of registries, the Committee took the position that endorsing a measure that requires use of registry data should be carefully considered because by default it requires participation in the registry. The data for a number of measures are not routinely collected outside the registry, which adds to the burden of collection for organizations. The use of such measures makes it essential that the specifications are fully detailed in a transparent fashion and that required data elements are standardized.

189 Public Reporting

190 The NQF endorsement criteria specify that measures submitted for endorsement must be intended for use 191 for quality improvement and public reporting (accountability). The Committee noted that measure 192 submission forms require and are expected to include public reporting plans. To that end, additional 193 information was requested from developers that did not provide them. Additionally, the Committee asked 194 developers to explain how measure information was conveyed to the public, in order to assess how a

195 measure may be perceived.

196

197 Related and Competing Measures

A subset of the candidate consensus standards was related or competing with other candidate or current NQF-endorsed measures. The Steering Committee first evaluated each candidate standard on its own merits and then compared the measures that met NQF evaluation criteria with the related or competing measures using NQF's harmonization and competing measures guidance.

202

203 Unintended Consequences

Committee members noted measures that could produce unintended consequences on patient care. They
 indicated that, where relevant, the care provided in healthcare institutions should be linked with patient
 outcome after discharge.

207

208 **RECOMMENDATIONS FOR ENDORSEMENT**

- 209 This report presents the results of the evaluation of 37 Phase II measures and 2 Phase I measures
- 210 considered under the NQF CDP.
- 211

212 Candidate Consensus Standards Recommended for Endorsement

- 213 Eighteen measures are recommended for continued endorsement and six measures are recommended for
- 214 initial endorsement as voluntary consensus standards suitable for public accountability and quality
- 215 improvement. Evaluation summary tables follow the lists of measures and summarize the results of the
- 216 Steering Committee's evaluation of and voting on the candidate standards that are recommended for
- 217 continued or initial endorsement. Hyperlinks are provided:

218	• from each listed measure to the evaluation summary table;
219	• from each summary table to the detailed measure specifications:
220	• from each summary table to the web page where all materials submitted by the developer or
221	steward are posted; and
222	• from each summary table to the web page where the meeting and call summaries, transcripts, and
223	recordings can be accessed.
224	
225	The Steering Committee recommended the following candidate consensus standards for continued or
226	initial endorsement.
227 228 229	Cardiac: CABG 0134 Use of internal mammary artery (IMA) in coronary artery bypass graft (CABG)7
230 231 232	Cardiac: CABG and Prophylaxis 0300 Cardiac surgery patients with controlled postoperative blood glucose
233 234 235	Cardiac, Appendectomy and Pancreatic Resection 0127 Preoperative beta blockade
236	perioperative period
237	0117 Beta blockade at discharge
238	02/3 Perforated appendix admission rate (PQI 2)
239 240 241	1519 Statin therapy at discharge after lower extremity bypass (LEB)
242	Cardiac and Vascular
243 244 245	1540 Postoperative stroke or death in asymptomatic patients undergoing carotid endarterectomy

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246	General, Ophthalmology, Orthopedics and Pediatrics	
247	0339 RACHS-1 pediatric heart surgery mortality	19
248	0340 Pediatric heart surgery volume (PDI 7)	21
249	0352 Failure to rescue in-hospital mortality (risk adjusted)	21
250	0353 Failure to rescue 30-day mortality (risk adjusted)	23
251	0351 Death among surgical inpatients with serious, treatable complications (PSI 4)	26
252	0515 Ambulatory surgery patients with appropriate method of hair removal	27
253	1550 Hospital-level risk-standardized complication rate (RSCR) following elective primary total hip	
254	arthroplasty (THA) and total knee arthroplasty (TKA)	28
255	1551 Hospital-level 30-day all-cause risk-standardized readmission rate (RSRR) following elective	
256	primary total hip arthroplasty (THA) and total knee arthroplasty (TKA)	31
257	1536 Cataracts: Improvement in patient's visual function within 90 days following cataract surgery	34
258		
259	General, Prophylaxis and Wound Dehiscence	
260	0528 Prophylactic antibiotic selection for surgical patients	41
261	0126 Selection of antibiotic prophylaxis for cardiac surgery patients	42
262	0264 Prophylactic intravenous (IV) antibiotic timing	43
263	0527 Prophylactic antibiotic received within 1 hour prior to surgical incision	46
264		
265		

Evaluation Summary—Candidate Consensus Standards Recommended for Endorsement 267

0134 Use of internal mammary artery (IMA) in coronary artery bypass graft (CABG)
For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings
Description: Percentage of patients aged 18 years and older undergoing isolated coronary artery bypass graft (CABG) who received an
internal mammary artery (IMA) graft.
Numerator Statement: Number of patients undergoing isolated coronary artery bypass graft (CABG) who received an internal
mammary artery (IMA) graft.
Denominator Statement: All patients undergoing isolated CABG.
Exclusions: Cases are removed from the denominator if the patient had a previous CABG prior to the current admission or if IMA was
not used and one of the following reasons was provided:
- Subclavian stenosis
- Previous cardiac or thoracic surgery
- Previous mediastinal radiation
- Emergent or salvage procedure
- No LAD disease
Adjustment/Stratification: no risk adjustment necessary/No stratification is required for this measure.
Level of Analysis: Clinicians: Group, Clinician: Individual, Clinician: Team, Facility/Agency, Population: National, regional/network,
states, counties or cities
Type of Measure: Process
Data Source: Registry data-STS Adult Cardiac Surgery Database, Version 2.73
Measure Steward: Society of Thoracic Surgeons 633 North Saint Clair Street, Suite 2320 Chicago Illinois 60611
Steering Committee Recommendation for Endorsement: <u>Y-20; N-0; A-2</u>
Rationale: This measure is tied to improved outcomes due to high patency rates of the IMA. The current compliance is 95 percent;
however variation among programs exists; i.e., compliance rates as low as 80 percent.
If applicable, Conditions/Questions for Developer:
 <u>1b.4 Summary of Data on Disparities by Population Group</u>: Please provide data on disparities.
 <u>2a.9 Denominator Exclusions</u>: Please remove "the IMA is not a suitable conduit due to size or flow" from the exclusions.
Developer Response:
1. Data on disparities are provided in the form.
2. STS staff agreed to remove the exclusion related to IMA suitability during the Steering Committee meeting. The form was

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0134 Use of internal mammary artery (IMA) in coronary artery bypass graft (CABG)

modified to reflect this.

Steering Committee Follow-up:

The Steering Committee agreed that the response from the developer was adequate.

Additional Conditions/Questions for Developer:

Harmonization: As agreed, 0134 and 0516 should be harmonized by combining into a single measure, which can allow reporting at the provider or institution level.

1. Importance to Measure and Report: Y-20; N-1

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The literature points to disparities amongst women, with IMA used less often in women. The developer did not provide information or data on disparities related to performance on the measure.

2. Scientific Acceptability of Measure Properties: C-14; P-7; M-0; N-0

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: The exclusion 'IMA not suitable,' can lead to the issue of gaming. This causes apprehension as to who determines if the IMA is not suitable, since currently, there are no criteria that classifies the IMA as suitable. The Committee requested that this exclusion be removed.

3. Usability: <u>C-20; P-1; M-0; N-0</u>

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The information obtained is meaningful and useful.

4. Feasibility: C-20; P-1; M-0; N-0

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) **Rationale:** The information can be derived from electronic sources.

268

0300 Cardiac surgery patients with controlled postoperative blood glucose

For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings

Description: Cardiac surgery patients with controlled blood glucose (<180 mg/dl) in the timeframe of 18 to 24 hours after Anesthesia End Time.

Numerator Statement: Cardiac surgery patients with controlled postoperative blood glucose (≤180 mg/dl) in the timeframe of 18 to 24 hours after Anesthesia End Time.

Denominator Statement: Cardiac surgery patients with no evidence of prior infection. Include patients with an ICD-9-CM Principle Procedure code or ICD-9-CM Other Procedure codes of selected surgeries AND an ICD-9-CM for ICD-9-CM codes Principle Procedure code or ICD-9-CM Other Procedure codes of selected surgeries.

Exclusions: Excluded Populations:

- Patients less than 18 years of age
- · Patients who have a length of Stay greater than 120 days

• Patients who had a principal diagnosis suggestive of preoperative infectious diseases (as defined in Appendix A, Table 5.09 for ICD-9-CM codes)

- Burn and transplant patients (as defined in Appendix A, Tables 5.14 and 5.15 for ICD-9-CM codes)
- Patients enrolled in clinical trials
- Patients whose ICD-9-CM principal procedure occurred prior to the date of admission
- Patients with physician/advanced practice nurse/physician assistant (physician/APN/PA) documented infection prior to surgical procedure of interest
- Patients who discharged prior to 24 hours after Anesthesia End Time.

Adjustment/Stratification: no risk adjustment necessary/No stratification is required for this measure.

Level of Analysis: Facility; Population: National, Population: Regional

Type of Measure: Process

Data Source: Electronic administrative data/claims; paper medical record/flow-sheet. Vendor tools or CART. CART is available for download free at

http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier2&cid=1138900279093 Measure Steward: Centers for Medicare & Medicaid Services | 7500 Security Boulevard | Baltimore | Maryland | 21244

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0300 Cardiac surgery patients with controlled postoperative blood glucose

Steering Committee Recommendation for Endorsement: Y-20; N-0; A-2

Rationale: Subsequent to developer changing the timeframe from 6 am due to variation in time of surgery, Committee indicated that a more comprehensive measure would involve monitoring a patient's blood glucose over the 18-24 hour period after surgery and allowing a 4 hour window to reduce high glucose levels to \leq 180mg/dl. This suggestion led to the developers revising the measure to include the timeframe of 18 to 24 hours.

If applicable, Conditions/Questions for Developer:

- 1. <u>2a.1 Numerator Statement</u>: The timeframe should be within 24 hours after surgery instead of 6 am.
- 2. <u>2a.10 Denominator Exclusion Details</u>: Provide a more detailed definition of perioperative death.

Developer Response:

1. This recommendation was presented to the SCIP Infection TEP on April 6, 2011. The panel accepted changing the measure numerator to patients having cardiac surgery whose highest blood sugar, between 18 and 24 hours after surgery is 180mg/dl or less.

2. Patients that expire during the perioperative period are excluded from this measure, as they should not be held accountable for glucose values on POD 1 or 2. The data element has this definition: The patient expired during the timeframe from surgical incision through discharge from the post anesthesia care/recovery area. Additional abstraction instructions include: For patients discharged from surgery and admitted to the PACU: The end of the perioperative period occurs when the patient is discharged from the PACU.

For patients discharged from surgery and admitted to locations other than the PACU (e.g., ICU): The perioperative period would end a maximum of six hours after arrival to the recovery area.

If applicable, Conditions/Questions for Developer:

- <u>2a.1 Numerator Statement</u>: Suggested modification-If serum glucose is above 180 mg/dl, was it decreased within a specific amount of time.
- 2. <u>2b Reliability Testing and 2c Validity Testing</u>: Advise what additional testing will need to be completed in light of the suggested modification.

Steering Committee Follow-up:

The Steering Committee agreed that the response from the developer regarding POD was adequate.

1. Importance to Measure and Report: Y-16; N-5

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The goal of the measure, to improve patient's blood sugar, is important. Performance at the aggregate is 93.4 percent; disparity information to understand if there are subpopulations disparities was requested and obtained.

2. Scientific Acceptability of Measure Properties: C-2; P-12; M-7; N-0

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: There is a need for more flexibility in the timeframe to allow comparability since variation in patient times of departure from the operating room. Both the committee and developer have heard anecdotal reports that clinical staffs are leaving patients on insulin drips to meet the criteria of the measure. Assuming this to be accurate, the timeframe change will address such an unintended consequence of the measure.

3. Usability: <u>C-5; P-6; M-10; N-0</u>

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The Committee was unsure if this measure would provide additive value if the timeframe remained at 6 am.

4. Feasibility: C-5; P-9; M-7; N-0

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)

Rationale: The measure cannot be easily implemented using the current timeframe. The timeframe has been changed.

269

0127 Preoperative beta blockade

For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings

Description: Percent of patients aged 18 years and older undergoing isolated CABG who received beta blockers within 24 hours preceding surgery.

Numerator Statement: Number of patients undergoing isolated CABG who received beta blockers within 24 hours preceding surgery Denominator Statement: All patients undergoing isolated CABG

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0127 Preoperative beta blockade

Exclusions: Cases are removed from the denominator if preoperative beta blocker was contraindicated. Adjustment/Stratification: no risk adjustment necessary/No stratification is required for this measure. Level of Analysis: Clinicians: Group, Clinicians: Individual, Facility/ Agency, Population: Community, Population: Counties or cities, Population: National, Population: Regional/ network, Population: States Type of Measure: Process Data Source: Registry data Measure Steward: Society of Thoracic Surgeons | 633 North Saint Clair Street, Suite 2320 | Chicago | Illinois | 60611 Steering Committee Recommendation for Endorsement: Y-23; N-0; A-1 Rationale: There was strong evidence to support this measure and it demonstrated a clear performance gap. If applicable, Conditions/Questions for Developer: **Developer Response:** Steering Committee Follow-Up: This was one of four related measures considered for potential harmonization. The four included: endorsed measure 0235: Pre-op beta blocker in patient with isolated CABG; maintenance measure 0127: Pre-operative beta blockade; endorsed measure 0236: Pre-op beta blocker in patient with isolated CABG; and maintenance measure 0284: Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period. Discussion of the four measures is included here. The Steering Committee stated that measure 0284 is unique and harmonization will not be pursued at this time since it applies beyond CABG to other surgical patients receiving beta blocker therapy prior to admission. The Steering Committee identified measures 0235 and 0127 as similar and should be combined into a single measure. The measure developer confirmed that the measures are similar with the exception of the level of measurement and indicated that they would combine them into a single measure from which information at the individual or facility level can be drawn. The developer also noted that measures 0235 and 0236 are identical in their specifications and are two components of a Physician Quality Reporting System (PQRS) measure. The Steering Committee stated that they considered the measures derived from registry data (measures 0235 and 0127) and administrative claims data (measure 0236) to be similar but not competing since the two data sources result in capture of information about different populations; both measures are useful and valid. On the September 13 conference call, the measure developer confirmed that measures 0127 and 0235 had been combined into this single measure that includes a level of analysis for both facilities and individual clinicians. 1. Importance to Measure and Report: Y-21, N-0; A-0 (1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence) Rationale: There was strong evidence to support this measure and it demonstrated a performance gap of 86.6 percent.

2. Scientific Acceptability of Measure Properties: C-16; P-5; M-0; N-0

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: Questions regarding number of patients excluded by the measure and concerns over contraindications to preoperative beta blockers were satisfactorily addressed by additional information from the developer. Evidence in support of the measure demonstrates its value.

3. Usability: <u>C-17; P-4; M-0; N-0</u>

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The measure as specified is usable; there may be opportunities for harmonization with other beta blocker measures. At the request of the Committee, the developer combined measures 0127 and 0235 into a single measure.

4. Feasibility: C-17; P-4; M-0; N-0

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)

Rationale: The measure is meaningful for public reporting and quality improvement; though, the cost of data extraction is of some concern.

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0284 Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings

Description: Percentage of patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period. To be in the denominator, the patient must be on a beta-blocker prior to arrival. The case is excluded if the patient is not on a beta-blocker prior to arrival, as described below in 2a4.

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0284 Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period

Numerator Statement: Surgery patients on beta blocker therapy prior to admission who receive a beta blocker during the perioperative period

Denominator Statement:

All surgery patients on beta blocker therapy prior to arrival

Data Element Data Collection Question: Is there documentation that the patient was on a daily beta-blocker therapy prior to arrival? Yes/No

Notes for Abstraction:

• If there is documentation that the beta-blocker was taken daily at "home" or is a "current" medication, select "Yes".

• If a beta-blocker is listed as a home medication without designation of how often or when it is taken, select "Yes".

• If there is documentation that the beta-blocker is a home/current medication and additional documentation indicates the beta-blocker was not taken daily, e.g., the medication reconciliation form lists a beta-blocker as a home/current medication, but documentation in the nurses notes state "patient denies taking beta-blocker every day", select "No".

• If there is documentation that the beta-blocker is on a schedule other than daily, select "No".

• If there is documentation that the beta-blocker was given on a "prn" basis for cardiac or non-cardiac reasons, select "No".

Exclusions:

• Patients less than 18 years of age

- · Patients who have a Length of Stay greater than 120 days
- Patients enrolled in clinical trials
- Patients whose ICD-9-CM principal procedure occurred prior to the date of admission
- Patients who expired during the perioperative period

• Pregnant patients taking a beta-blocker prior to arrival

• Patients with a documented Reason for Not Administering Beta-Blocker-Perioperative

• Patients with Ventricular Assist Devices or Heart Transplantation

Adjustment/Stratification: No risk adjustment necessary/No stratification is required for this measure.

Level of Analysis: Facility/ Agency, Population: National, Population: Regional

Type of Measure: Process

Data Source: Electronic administrative data/ claims, Paper medical record/ flow-sheet

Vendor tools (electronic) or CART. CART is available for download free at

http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier2&cid=1138900279093

Measure Steward: Centers for Medicare & Medicaid Services | 7500 Security Blvd, Mail Stop S3-02-01 | Baltimore | Maryland | 21244 Steering Committee Recommendation for Endorsement: Y-20; N-0; A-1

Rationale: The measure is meaningful for public reporting and guality improvement.

If applicable, Conditions/Questions for Developer:

- 1. <u>2a.4 Denominator Statement</u>: Include definition of 'prior to arrival' and clarify the expected beta blocker dosing during the perioperative period (e.g., beyond homeopathic dose) should be done to a specific parameter; i.e., hear rate or blood pressure.
- 2. <u>2a.9 Denominator Exclusions</u>: Exclusion for laparoscopy verbally reported as removed effective January 1, 2012. Please confirm.
- 3. <u>2a.9 Denominator Exclusions</u>: Consider exclusions for patients on beta blockers for non-cardiac reasons.

Developer Response:

1. To be in the measure denominator, the patient must be on a beta-blocker prior to arrival. The data collection question and relevant notes for abstraction for the data element Beta-Blocker Current Medication are listed below. The case is excluded if the answer to this data element is "no." We do NOT use specific parameters for dosing because this measure was designed to ensure that patients on beta-blocker therapy at home have continued therapy. It is not evaluating whether the dose is therapeutic. There is simply no way to define a "homeopathic dose" for the purposes of data collection.

Suggested Data Collection Question: Is there documentation that the patient was on a daily beta-blocker therapy prior to arrival? Yes/No

Notes for Abstraction:

- If there is documentation that the beta-blocker was taken daily at "home" or is a "current" medication, select "Yes".
- If a beta-blocker is listed as a home medication without designation of how often or when it is taken, select "Yes".

• If there is documentation that the beta-blocker is a home/current medication and additional documentation indicates the betablocker was not taken daily, e.g., the medication reconciliation form lists a beta-blocker as a home/current medication, but documentation in the nurses notes state "patient denies taking beta-blocker every day", select "No".

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0284 Sur	gery patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period
2.	 If there is documentation that the beta-blocker is on a schedule other than daily, select "No". If there is documentation that the beta-blocker was given on a "prn" basis for cardiac or non-cardiac reasons, select "No". The data element Laparoscope has been removed from all SCIP measures for January 1, 2012 discharges. Major surgeries performed laparoscopically may be included if their ICD-9 Principal Procedure Code is included in the denominator (Table 5.10). Those exclusions are accounted for in the Notes for Abstraction for the data element Beta-Blocker Current Medication. See above. The abstractor is instructed to answer "no" to this data element which excludes them from the measure.
Steering	Committee Follow-up:
1.	2a.4 Denominator Statement: Further define "prior to arrival" to specify "all surgery patients on daily beta blocker therapy prior
	to arrival".
2.	This was one of four related measures considered for potential harmonization. The four included: endorsed measure 0235: Pre-op beta blocker in patient with isolated CABG; maintenance measure 0127: Pre-operative beta blockade; endorsed measure 0236: Pre-op beta blocker in patient with isolated CABG; and maintenance measure 0284: Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period. Discussion of the four measures is included here. The Steering Committee stated that measure 0284 is unique and harmonization will not be pursued at this time since it applies beyond CABG to other surgical patients receiving beta blocker therapy prior to admission. The Steering Committee identified measures 0235 and 0127 as similar and should be combined into a single measure. The measure developer confirmed that the measures are similar with the exception of the level of measurement and indicated that they would combine them into a single measure from which information at the individual or facility level can be drawn. The developer also noted that measures 0235 and 0236 are identical in their specifications and are two components of a Physician Quality Reporting System (PQRS) measure. The Steering Committee stated that they considered the measures derived from registry data (measures 0235 and 0127) and administrative claims data (measure 0236) to be similar but not competing since the two data sources result in capture of information about different populations; both measures are useful and valid.
1. Import	ance to Measure and Report: <u>Y-21; N-0</u>
(1a. Impa Rational large nun to provide	act; 1b. Performance gap; 1c. Outcome or Evidence) e: Performance is above 90 percent; however, discontinuation of beta blockers in the post-op period has the potential to affect a blockers and for that reason remains a concern. It was noted that beta blockers had to be titrated to a certain heart rate for them a beneficial result to the patient.
2. Scient (2a. Preci Meaningf Rational that was condition	 ific Acceptability of Measure Properties: C-10; P-10; M-1; N-0 ise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. ul differences; 2g. Comparability; 2h. Disparities) a: The evidence, construction and testing of the measure meets requirements. The Committee questioned the period of time considered as part of the perioperative period and why laparoscopic procedures were included in the exclusions and set s related to these concerns.
3. Usabil	ity: C-12; P-9; M-0; N-0
(3a. Mear measures Rational	ningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing s) e: The measure is meaningful for public reporting and quality improvement.
4. Feasib (4a. Clinic inaccurac Rational records. capturing	 ility: <u>C-12; P-9; M-0; N-0</u> cal data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to cies/ unintended consequences identified 4e. Data collection strategy can be implemented) e: The required data is readily available; the Committee questioned whether the measure would continue to rely on paper It is not included in the list for electronic health records (EHR) at present; however, the developer was encouraged to consider titration to heart rate when it does move to EHR. They were also requested that the bradycardia exclusion be included.
0117 Bet	a blockade at discharge
For More	Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings
Descripti Numerat Denomin Exclusio	ion: Percent of patients aged 18 years and older undergoing isolated CABG who were discharged on beta blockers or Statement: Number of patients undergoing isolated CABG who were discharged on beta blockers ator Statement: All patients undergoing isolated CABG ns: Cases are removed from the denominator if there was an in-hospital mortality or if discharge beta blocker was

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NQF MEMBER comments due October 26, 2011 6:00 PM ET; PUBLIC comments due October 19, 2011 6:00 PM ET

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0117 Beta blockade at discharge
contraindicated.
Adjustment/Stratification: no risk adjustment necessary/No stratification is required for this measure.
Level of Analysis: Clinicians: Group, Facility/ Agency, Population: Counties or cities, Population: National, Population:
Regional/network. Population: States
Type of Measure: Process
Data Source: Registry data
Measure Steward: Society of Thoracic Surgeons 633 North Saint Clair Street. Suite 2320 Chicago Illinois 60611
Steering Committee Recommendation for Endorsement: Y-21: N-0: A-1
Rationale: The measure is important and shows a performance gap.
If applicable, Conditions/Questions for Developer:
Developer Response:
If applicable, Questions to the Steering Committee:
1. Importance to Measure and Report: Y-21; N-0
(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)
Rationale: The measure is important and shows a performance gap with a mean of 95.1 percent and a median of 96.9 percent
compliance; however, performance drops off sharply indicating there is room for continued performance improvement.
2. Scientific Acceptability of Measure Properties: C-18: P-3: M-0: NA-0
(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions iustified; 2e. Risk adjustment/stratification; 2f.
Meaningful differences: 2g. Comparability: 2h. Disparities)
Rationale: Initial concern about patients with contraindications who were removed from the numerator and denominator and the clarity
of the time window were resolved in conversation with the developer. There is a clear relationship of this measure to patient outcomes.
The rationale for using eligibility and exclusion criteria in lieu of a risk model that would be difficult to construct was accepted
3. Usability: C-17 [·] P-4 [·] M-0 [·] NA-0
(3a Meaningful/useful for public reporting and quality improvement: 3b Harmonized: 3c. Distinctive or additive value to existing
measures)
Rationale: The measure was considered usable: no concerns were expressed.
4. Feasibility: C-18: P-3: M-0: NA-0
(4a. Clinical data generated during care process: 4b. Electronic sources: 4c. Exclusions – no additional data source: 4d. Susceptibility to
inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)
Rationale: While there were questions about potential gaming and costs associated with data abstraction, these issues are relatively
common across many measures and were not believed to compromise the feasibility of this measure
0273 Perforated appendix admission rate (POI 2)
For More Information: Detailed Measure Specifications: Complete Measure Submission: Meeting/Call Proceedings
Description: Percentage of admissions for appendicitis within county with perforated appendix.
Numerator Statement: All discharges with ICD-9-CM diagnosis code for perforations or abscesses of appendix in any field among
cases meeting the inclusion rules for the denominator.
Denominator Statement: All non-maternal discharges of age 18 years and older in Metro Area1 or county with diagnosis code for
appendicitis in any field
Exclusions: Not applicable
Adjustment/Stratification: risk adjustment method widely or commercially available. The predicted value for each case is computed
using a logistic regression model and covariates for gender and age in years (in 5-year age grouns). The reference population used in
the model is the universe of discharges for states that narticinate in the HCLIP State Innation Databases (SID) for the year 2007
(undated annually) a database consisting of 43 states and approximately 30 million adult discharges. The expected rate is computed as
the sum of the predicted value for each case divided by the number of cases for the unit of analysis of interact (i.e., county, state, and
region). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate, multiplied
by the reference nonulation rate/Observed rates may be stratified by gender age (5-year age groups) race/ ethnicity

Level of Analysis: Population: Counties or cities, Population: States

Type of Measure: Outcome

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Data Source: Electronic administrative data/ claims

Measure Steward: Agency for Healthcare Research and Quality | 540 Gaither Road | Rockville | Maryland | 20850

Steering Committee Recommendation for Endorsement: Y-21; N-0; A-1

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Rationa	the first of a population baced medeale alacte colonaneally raile and eacy to implement that a eighnealt performance gap.
Adverse	outcomes such as longer length of stay with the resulting increased resource utilization are associated with an appendix
perforat	ion.
If applic	able, Conditions/Questions for Developer:
Develo	per Response:
If applie	able, Questions to the Steering Committee:
1. Impo	rtance to Measure and Report: Y-19; N-2
(1a. Imp	act; 1b. Performance gap; 1c. Outcome or Evidence)
Rationa	le: The Committee indicated that the measure demonstrated that adverse outcomes are associated with an appendix perfora
and disp	parity data suggested a gap in care. The measure is useful as a population prevention indicator.
2. Scier	tific Acceptability of Measure Properties: C-16; P-5; M-0; N-0
(2a. Pre	cise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f.
Meaning	uful differences; 2g. Comparability; 2h. Disparities)
Rationa	le: This measure has scientific validity.
3. Usab	ility: C-18; P-2; M-0; N-1
(3a. Me	aningful/useful for public reporting and quality improvement: 3b. Harmonized: 3c. Distinctive or additive value to existing
measure	
Rationa	le: This measure is useful in looking at clinical management and is in use.
4. Feas	bility: C-18: P-3: M-0: N-0
(4a Clir	ical data generated during care process: 4b. Electronic sources: 4c. Exclusions – no additional data source: 4d. Suscentibilit
inaccura	icies/ unintended consequences identified 4e. Data collection strategy can be implemented)
Rationa	le. This measure uses claims data and is feasible to collect
0265 H	senital transfer/admission
0265 Ho	e Information: Detailed Measure Specifications: Complete Measure Submission: Meeting/Call Proceedings
0265 Ho For Mor	e Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings
0265 Ho For Mor Descrip	e Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings tion: Rate of ASC admissions requiring a hospital transfer or hospital admission upon discharge from the ASC tor Statement: Ambulatory surgical center (ASC) admissions requiring a hospital transfer or hospital admission upon discharge
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0265 Ho For Mor Descrip Numera from the Denom Exclusi Adjustr Level o Type of Data So Measur Steerin Rationa	pspital transfer/admission re Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings tion: Rate of ASC admissions requiring a hospital transfer or hospital admission upon discharge from the ASC tor Statement: Ambulatory surgical center (ASC) admissions requiring a hospital transfer or hospital admission upon discharge from the ASC ASC. nator Statement: All ASC admissions ons: None nent/Stratification: No risk adjustment necessary/No stratification is required for this measure. f Analysis: Facility/ Agency Measure: Outcome nurce: Paper medical record/ flow-sheet e Steward: ASC Quality Collaboration 5686 Escondida Blvd S St. Petersburg Florida 33715 g Committee Recommendation for Endorsement: Y-18; N-3; A-1 le: This measure focus is important and will encourage reporting and provide the ability to analyze transfer rates among ASC
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0265 Ho For Mor Descrip Numera from the Denom Exclusi Adjustr Level o Type of Data Sc Measur Steering Rationa If applic 1.	pspital transfer/admission re Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings tion: Rate of ASC admissions requiring a hospital transfer or hospital admission upon discharge from the ASC tor Statement: Ambulatory surgical center (ASC) admissions requiring a hospital transfer or hospital admission upon discharge from the ASC ASC. nator Statement: All ASC admissions ons: None nent/Stratification: No risk adjustment necessary/No stratification is required for this measure. f Analysis: Facility/ Agency Measure: Outcome ource: Paper medical record/ flow-sheet e Steward: ASC Quality Collaboration 5686 Escondida Blvd S St. Petersburg Florida 33715 g Committee Recommendation for Endorsement: Y-18; N-3; A-1 le: This measure focus is important and will encourage reporting and provide the ability to analyze transfer rates among ASC cable, Conditions/Questions for Developer: 1b.2 Summary of Measure Results Demonstrating Performance Gap: Rates and percentages presented in the measure are provide.
0265 Ho For Mor Descrip Numera from the Denom Exclusi Adjustr Level o Type of Data Sc Measur Steering Rationa If applic 1.	Despital transfer/admission re Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings tion: Rate of ASC admissions requiring a hospital transfer or hospital admission upon discharge from the ASC tor Statement: Ambulatory surgical center (ASC) admissions requiring a hospital transfer or hospital admission upon discharge from the ASC nator Statement: All ASC admissions ons: None nent/Stratification: No risk adjustment necessary/No stratification is required for this measure. f Analysis: Facility/ Agency Measure: Outcome urce: Paper medical record/ flow-sheet e Steward: ASC Quality Collaboration 5686 Escondida Blvd S St. Petersburg Florida 33715 g Committee Recommendation for Endorsement: Y-18; N-3; A-1 le: This measure focus is important and will encourage reporting and provide the ability to analyze transfer rates among ASC rable, Conditions/Questions for Developer: 1b.2 Summary of Measure Results Demonstrating Performance Gap: Rates and percentages presented in the measure arconfusing. Please review and revise as appropriate
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NQF REVIEW DRAFT—DO NOT CITE OR QUOTE NQF MEMBER comments due October 26, 2011 6:00 PM ET; PUBLIC comments due October 19, 2011 6:00 PM ET

0265 Hospital transfer/admission

Developer Response:

- 1. Although data for 1,185 ASCs are included in the ASC QC database for this measure, many report at the corporate level and do not report data for individual ASCs. The ASC QC database includes center-level rates for this measure for 526 ASCs throughout the US. The rates for this measure are based on the 526 individually-reporting ambulatory surgery centers throughout the US for services provided during April to June 2010. The rate for unscheduled transfer or admission to a hospital ranged from a minimum of 0.0% to a maximum of 2.3%. The mean rate was 0.1% (SD: 0.2%), while the median rate was 0.1%. The maximum transfer rate of 2.3% and a third quartile value of 0.2% demonstrate that there is an opportunity for improvement in this measure.
- 2. Although data for 1,185 ASCs are included in the ASC QC database for this measure, many report at the corporate level and do not report data for individual ASCs. The ASC QC database includes center-level rates for this measure for 526 ASCs throughout the US. The 526 individually-reporting ambulatory surgery centers represent a convenience sample of the ASC population were used to assess the opportunity for improvement for this measure. The centers were located throughout the US. Services from the second calendar quarter of 2010 were included in this portion of the study.
- 3. Based on our experience to date, we have no reason to believe that patients requiring admission or transfer to the hospital are being discharged home in order to improve the ASC's performance on this measure. The malpractice risk from substandard care carries much graver consequences than any potential outcome from slightly higher rates of transfer/admission related to this measure. After discussion with NQF staff and if the Committee wishes to see a measure of the hospital admission rate for a more extended timeframe, we will create a separate measure using a sampling protocol. We propose to develop this measure using the following draft numerator and denominator statements, which may be modified during the development phase:

Numerator statement: Ambulatory surgery center (ASC) admissions experiencing a hospital admission in the 24 hour period following discharge from the ASC.

Denominator statement: All selected ASC patients (sampling protocol to be developed and tested)

- 4. An individual ASC's transfer rate may be compared to the standard rate from the ASC Quality website (http://www.ascquality.org/qualityreport.cfm#Transfer). A statistically significant difference in performance may be detected by using a standard test of proportions as outlined in most standard statistical texts. Since each transfer may represent increased risk exposure for the patient, a rate higher than the standard of 1 per 1000 is also of practical significance. The null hypothesis for this test is that the sample proportion from the ASC is not different from the industry standard taken from the ASC Quality website. The alternative is that there is a statistically significant difference. We recommend that this test be performed in its two-sided form so that the ASC may determine if they are either statistically higher or lower than the standard. The recommended p-value for this test is the 0.05 level, but ASCs may have justification for different value. Using this statistical method for detecting significant variances from the industry standard will allow users to determine if differences may be due to sampling error or may indicate a true difference in performance.
- 5. The data the ASC Quality Collaboration currently receives for this measure is collected at the ASC-level or at the level of the corporate parent of the ASC. Corporate parent data submissions combine data from multiple ASCs. Disparity measures by population group require the collection of patient-level data or collection of the data for individual populations of patients. At this time, the ASC Quality Collaboration does not have access to any patient-level or individual population level data that would allow for analysis of subpopulation disparities based on race, sex and age. However, we understand the importance of subpopulation data and are taking steps that would allow us to collect the necessary data. We are actively pursuing the development of a registry that would allow us to develop subpopulation performance data for this measure and others. Potential registry development vendors have been identified and initial communications regarding the project have already taken place. We plan to select a vendor by third quarter of 2011, initiate the development of the registry database immediately upon contract acceptance, and have a functioning registry three months thereafter.

6. ADDITIONAL INFORMATION and Response from Measure Developer:

We have also revised 2f1 for this measure #0265 Hospital Transfer to provide additional clarity:

2f.1. Data/Sample (Description of the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included)

Although data for 1,185 ASCs are included in the ASC QC database, many report at the corporate level and do not report data for individual ASCs. The ASC QC database includes center-level rates for this measure for 526 ASCs throughout the US. The rates for this measure were collected for the 526 individually-reporting ambulatory surgery centers throughout the US for services provided during April to June 2010.

Steering Committee Follow-up:

The Steering Committee agreed with and encourages the developer's plan to create a measure to be submitted to NQF in the future

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0265 Hospital transfer/admission

focused on hospital admission rates with an extended timeframe. They expressed reservations that the current measure may have the unintended consequence of patients who are sent home rather than admitted when admission appeared a likely outcome. The Committee was also concerned about the burden of data collection, but agreed that the measure was important and, through reporting across ASCs and to the public, should further encourage reporting by ASCs. They agreed that the response from the developer was adequate.

1. Importance to Measure and Report: Y-15; N-5

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The Committee deems the focus of the measure important but has concerns about a) the potential for the unintended consequence of discharging a patient to home when potential need for admission is relatively high which argues for modification of the measure to include a time window for admission and b) the low admission rate reflected in the data provided does not demonstrate a meaningful performance gap. Modification of the measure with a broader time window could resolve the concerns.

2. Scientific Acceptability of Measure Properties: C-2; P-10; M-6; N-2

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: The measure does not provide concise parameters for measurement benchmarking, since it does not establish an appropriate target rate of transfer. Developer was asked to address this and did so to the satisfaction of the committee. See developer response above.

3. Usability: <u>C-6; P-9; M-3; N-2</u>

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The statistical analysis did not seem valid, since the outliers would vary by ambulatory surgical center. This measure may not be ready for public reporting since it does not have a specific target transfer rate. Developer was asked to address this and did so to the satisfaction of the committee. See developer response above.

4. Feasibility: C-13; P-7; M-0; N-0

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)

Rationale: Data is derived from the patient medical record. The measure could have the unintended consequence of promoting a discharge to home rather than a transfer, since an admission would be viewed as "failing to meet the measure".

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1519 Statin therapy at discharge after lower extremity bypass (LEB)

For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings

Description: Percentage of patients aged 18 years and older undergoing infrainguinal lower extremity bypass who are prescribed a statin medication at discharge. This measure is proposed for both hospitals and individual providers.

Numerator Statement: Patients undergoing infrainguinal lower extremity bypass who are prescribed a statin medication at discharge. **Denominator Statement:** All patients aged 18 years and older undergoing lower extremity bypass as defined above who are discharged alive, excluding those patients who are intolerant to statins.

Exclusions: Chart documentation that patient was not an eligible candidate for statin therapy due to known drug intolerance, or patient died before discharge.

Adjustment/Stratification: No risk adjustment necessary/No stratification is required for this measure.

Level of Analysis: Can be measured at all levels, Clinicians: Group, Clinicians: Individual, Facility/ Agency

Type of Measure: Process

Data Source: Registry data

Measure Steward: Society for Vascular Surgery | 633 N. Saint Clair St., 22nd Floor | Chicago | Illinois | 60611

Steering Committee Recommendation for Endorsement: Y-20; N-0 ; A-1

Rationale: The focus of the measure is important and while the evidence cited speaks to statin use for LDL control, use of statins without reference to LDL is the current trend and, per the developer, it is expected that it will be supported in future guidelines.

If applicable, Conditions/Questions for Developer:

- 1. <u>2a.2 Numerator Time Window</u>: Timeframe lacks precision. Please address.
- 2. <u>2a.7 Denominator Time Window</u>: Timeframe lacks precision. Please address.

Note: Discussion of Related and Competing measures may result in additional requests to developers specific to harmonization **Developer Response:**

We have modified the form time window for all SVS measures as follows:

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1519 Statin therapy at discharge after lower extremity bypass (LEB)

Since hospitals have sufficient annual volume to generate accurate reporting levels, these are proposed for reporting every 12 months for hospital. Since surgeons have lower individual volume, we recommend annual reporting of the last 50 consecutive procedures, which may span more than one year, with suppression if < 10 procedures (i.e., reported as too low volume to report).

Steering Committee Follow-up:

- 1. The Steering Committee agreed that the response from the developer was adequate.
- 2. This was one of two related measures considered for potential harmonization. The two included: maintenance measure 0118: Anti-lipid treatment discharge and new candidate measure 1519: Statin therapy at discharge after lower extremity bypass (LEB). Discussion of the two measures is included here. The Steering Committee stated that measures 0118 and 1519 were related in terms of therapy used; however, they involve different procedures and different patient populations and are reasonably aligned thus no further action was recommended.

1. Importance to Measure and Report: Y-19; N-1

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The measure is based on a guideline that focuses on statin use for LDL control while the measure focuses on statin use regardless of the LDL control; however, the current trend in practice to use of statin without reference to LDL. Performance rates have improved from 41 percent to 79 percent, still short of the 90 percent goal.

2. Scientific Acceptability of Measure Properties: C-8; P-11; M-1; N-0

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: The Committee noted the numerator and denominator timeframes lacked precision. The developer revised the timeframes to 12 months.

3. Usability: <u>C-14; P-5; M-1; N-0</u>

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The measure, which relies on registry data, was considered usable.

4. Feasibility: C-13; P-7; M-0; N-0

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)

Rationale: The feasibility of implementation was questioned since the data comes from a registry. For registry participants the measure is quite feasible; a non-registry participant would have to collect manually or develop an electronic system.

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1540 Postoperative stroke or death in asymptomatic patients undergoing carotid endarterectomy

For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings

Description: Percentage of patients age 18 or older without carotid territory neurologic or retinal symptoms within the one year immediately preceding carotid endarterectomy (CEA) who experience stroke or death following surgery while in the hospital. This measure is proposed for both hospitals and individual surgeons.

Numerator Statement: Patients age 18 or older without preoperative carotid territory neurologic or retinal sympotoms within the one year immediately preceding CEA who experience stroke or death during their hospitalization following carotid endarterectomy

Denominator Statement: Asymptomatic patients (based on NASCET criteria) on the within one year of CEA

Exclusions: Exclude patients with neurologic symptoms within one year of procedure

Adjustment/Stratification: No risk adjustment necessary/No stratification is required for this measure.

Level of Analysis: Facility/ Agency, Clinicians: Individual, Clinicians: Group

Type of Measure: Outcome

Data Source: Registry data

Measure Steward: Society for Vascular Surgery | 633 N. St. Clair, 22nd St. | Chicago | Illinois, 60611

Steering Committee Recommendation for Endorsement: Y-21; N-0; A-1

Rationale: The measure will help determine the incidence of adverse outcomes in the asymptomatic patient undergoing what is essentially a prophylactic procedure.

If applicable, Conditions/Questions for Developer:

- 1. <u>2a Measure Specifications</u>: Provide information about type and accuracy of codes from registry data? Provide the codes. Diagnostic codes must be used and will need to ensure testing with these codes is complete.
- 2. 2h. Disparities in Care: Provide information about disparities or plans to be able to provide data.
- 3. 3a.2 Use in a Public Reporting Initiative: Please provide plans for public reporting (within 3 years).

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1540 Postoperative stroke or death in asymptomatic patients undergoing carotid endarterectomy

Developer Response:

- 1. As indicated in the list of previously provided registry variables that was attached to the last submission, post-operative stroke (major or minor) and death are recorded in the SVS registry. These are not derived from ICD-9 codes, but rather are directly obtained by review of the medical record, usually during the time of admission by clinical personnel. Definitions for these variables were also reported. We are not certain which "codes" are being referred to, since this is a registry measure defined by clinical definitions within the registry, or any other available registry that records postoperative stroke (major or minor) and death in asymptomatic patients undergoing carotid endarterectomy.
- 2. Disparities have not been reported. As additional data are acquired from the SVS registry across a much larger and varied population, future disparities may be discovered.
- SVS intends to request that all of these measures be included in PQRS, and expects CMS to begin publishing PQRS data in the near future. Independent of this, SVS plans to request permission from participating providers and hospitals to publish these measures on the SVS public website.

Steering Committee Follow-up:

The Steering Committee discussed the importance of the measure. Carotid endarterectomy may be over utilized in asymptomatic patients. The Committee agreed that the response from the developer was adequate.

1. Importance to Measure and Report: Y-20; N-1

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The Committee considered the outcomes resulting from the asymptomatic patient undergoing carotid endarterectomy important to measure.

2. Scientific Acceptability of Measure Properties: C-6; P-14; M-1; N-0

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: The Committee noted the need to define and specify methods to document (e.g., ICD-9 coding, potential development and use of CPT-II codes) asymptomatic and then to standardize the definition. There was concern about whether the measure is, in fact, measuring what is intended. With the information that definitions for the variables are reported and further discussion, the concern was adequately addressed.

3. Usability: <u>C-5; P-14; M-1; N-1</u>

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The Committee was unclear about the details of the measure steward's plan for publicly reporting the measure. The developer indicated that they will request that the measure be included in PQRS.

4. Feasibility: C-4; P-13; M-3; N-1

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)

Rationale: Concerns relate to capture of 'asymptomatic'. The Committee was interested in the potential of future CPT-II codes in this regard.

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1543 Postoperative stroke or death in asymptomatic patients undergoing carotid artery stenting (CAS)

For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings

Description: Percentage of patients 18 years of age or older without carotid territory neurologic or retinal symptoms within 120 days immediately proceeding carotid angioplasty and stent (CAS) placement who experience stroke or death during their hospitalization for this procedure. This measure is proposed for both hospitals and individual interventionalists.

Numerator Statement: Patients over age 18 without preoperative carotid territory neurologic or retinal sympotoms within one year of their procedure who experience stroke or death during their hospitalization following elective carotid artery angioplasty and stent placement

Denominator Statement: Patients over age 18 without preoperative carotid territory neurologic or retinal symptoms within one year immediately preceding carotid artery stenting

Exclusions: Exclude patients with neurologic symptoms within one year of procedure

Adjustment/Stratification: No risk adjustment necessary/No stratification is required for this measure.

Level of Analysis: Facility/ Agency, Clinicians: Individual, Clinicians: Group

Type of Measure: Outcome

Data Source: Registry data

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE

1543 Postoperative stroke or death in asymptomatic patients undergoing carotid artery stenting (CAS)
Measure Steward: Society for Vascular Surgery 633 N. St. Clair, 22nd floor Chicago Illinois, 60611
Steering Committee Recommendation for Endorsement: Y-21; N-0; A-1
Rationale: The measure will help determine the incidence of adverse outcome in the asymptomatic patient undergoing what is
essentially a prophylactic procedure.
If applicable, Conditions/Questions for Developer:
The Committee suggested that measures related to carotid artery stenting be developed in conjunction with other specialties that
perform the procedures: i.e., radiologists and cardiologists.
Developer Response:
1. The measure proposed for carotid artery stenting is identical to the measure proposed for carotid endarterectomy, two
competing procedures used to treat the same disease. By limiting the measure to asymptomatic patients, we are eliminating
the need for risk adjustment, since this is embodied in the decision to perform these prophylactic procedures to prevent future
stroke, i.e., the operative risk of stroke and death must be certain to be low in order to justify these procedures. Stroke and
death is the combined endpoint used in all randomized trials of these procedures, and we believe it is critically important that
surgeons who perform carotid endarterectomy and stenting should report their outcomes for BOTH of these procedures. Since
this is such a clean outcome measure, without need for risk adjustment, we do not believe that its approval should be withheld
because it has not vet been proposed by other specialties. In fact, SVS VOI has surgeons and radiologists who participate
and support an outcome measure for both carotid endarterectomy and stenting. We respectfully ask the committee to approve
both of these important measures in parallel. The form has been undated to reflect relevant comments provided for other SVS
measures.
Steering Committee Follow-up:
The Steering Committee agreed that the response from the developer was adequate and suggested that SVS work to develop measures
with other specialties in the future.
1. Importance to Measure and Report: Y-21; N-0
(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)
Rationale: The Committee considered the outcomes resulting from the asymptomatic patient undergoing carotid artery stenting
important to measure.
2. Scientific Acceptability of Measure Properties: C-6; P-14; M-1; N-0
(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f.
Meaningful differences; 2g. Comparability; 2h. Disparities)
Rationale: The Committee noted the need to define and specify methods to document (e.g., ICD-9 coding, potential development and
use of CPT-II codes) asymptomatic and then to standardize the definition. With the information that definitions for the variables are
reported and further discussion, the concern was adequately addressed.
3. Usability: <u>C-6; P-13; M-1; N-1</u>
(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing
measures)
Rationale: The Committee was unclear about the public reporting plan. The developer indicated that the measure is to be reported with
1540 and will request inclusion in PQRS.
4. Feasibility: <u>C-6; P-11; M-3; N-1</u>
(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to
inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)
Rationale: Concerns relate to capture of 'asymptomatic'. The Committee was interested in the potential of future CPT-II codes in this
regard.
0339 RACHS-1 pediatric heart surgery mortality
For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings

Description: Risk-adjusted rate of in-hospital death for pediatric cases undergoing surgery for congenital heart disease, along with ratio of observed to expected in-hospital mortality rates.

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Numerator Statement: Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator with a code of pediatric heart surgery with ICD-9-CM diagnosis of congenital heart disease in any field.

Denominator Statement: Discharges under age 18 with ICD-9-CM procedure codes for congenital heart disease (1P) in any field or non-specific heart surgery (2P) in any field with ICD-9-CM diagnosis of congenital heart disease (2D) in any field. **Exclusions:** Exclude cases:

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0339 RACHS-1 pediatric heart surgery mortality

• MDC 14 (pregnancy, childbirth and pueperium)

• with transcatheter interventions (either 3AP, 3BP, 3CP, 3DP, 3EP with 3D, or 3FP) as single cardiac procedures, performed without bypass (5P) but with catheterization (6P)

• with septal defects (4P) as single cardiac procedures without bypass (5P)

• with diagnosis of ASD or VSD (5D) with PDA as the only cardiac procedure

• heart transplant (7P)

• premature infants (4D) with PDA closure (3D and 3EP) as only cardiac procedure;

• age less than or equal to 30 days with PDA closure as only cardiac procedure

• missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year

(YEAR=missing) or principal diagnosis (DX1 =missing)

• transferring to another short-term hospital (DISP=2)

• neonates with birth weight less than 500 grams (Birth Weight Category 1)

Adjustment/Stratification: risk adjustment method widely or commercially available PDI: The predicted value for each case is computed using a logistic regression with Generalized Estimating Equations (GEE) to account for within hospital correlation containing RACHS-1 risk category; age category (<= 28 days, 29 to 90 days, 91 days to 1 year, 1 to 17 years); birth weight <2500 grams; non-cardiac structural anomaly (modified CCS 217); admission transferred in; and combination of congenital heart surgery procedures performed during admission. The reference population used in the model is the universe of discharges for states that participate in the HCUP State Inpatient Databases (SID) for the year 2008 (updated annually), a database consisting of 43 states and approximately 7 million pediatric discharges. The expected rate is computed as the sum of the predicted value for each case divided by the number of cases for the unit of analysis of interest (i.e., hospital). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate (standardized mortality ratio), multiplied by the reference population rate.

The model includes additional covariates for RACHS-1 risk categories, and multiple congenital heart procedures during the admission. Required data elements: Age in days up to 364, then age years at admission; International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) principal and secondary diagnosis codes; admission type; admission source. The user has the option to stratify by gender, birth weight, age in days, age in years, race / ethnicity, primary payer, and custom stratifiers./ The user has the option to stratify by gender, birth weight, age in days, age in years, race/ ethnicity, primary payer, and custom stratifiers.

Level of Analysis: Facility/ Agency Type of Measure: Outcome

Data Source: Electronic administrative data/ claims

Measure Steward: Agency for Healthcare Research and Quality | 540 Gaither Road | Rockville | Maryland | 20850

Steering Committee Recommendation for Endorsement: Y-24; N-0; A-0

Rationale: Measuring pediatric heart surgery mortality is important and the measure is valid and meets criteria RACHS is supported in the literature.

If applicable, Conditions/Questions for Developer:

1. This measure and Measure 0340 should continue to be reported as a pair.

Developer Response:

1. AHRQ agrees to continue to note the Pediatric heart surgery mortality and volume (339 and 340 respectively) are to be reported as a paired measure in related AHRQ QI documents.

Steering Committee Follow-up:

At the Steering Committee's request, the developer explained that they were working to combine measures 0339: Pediatric heart surgery mortality (PDI 6) (risk adjusted) and PCS-021-09: Standardized mortality ratio for congenital heart surgery, risk adjustment for congenital heart surgery (RACHS-1) adjusted) for submission by August 15, 2011.

On the September 13 conference call, the Steering Committee reviewed this newly combined measure which represents the harmonization of the former 0339 and PCS-021-09. Members determined that it adequately addressed their request and met criteria. The developer indicated that this measure remains appropriate to be paired with measure 340: Pediatric Heart Surgery Volume (PDI 7),

1. Importance to Measure and Report: Y-22; N-0

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The measure was considered important and the performance gap suggests room for improvement.

The Committee requested timely updated citations in the future.

2. Scientific Acceptability of Measure Properties: C-17; P-5; M-0; N-0

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

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	0339 RACHS-1 pediatric heart surgery mortality
	Rationale: The measure was considered scientifically acceptable.
	3. Usability: C-17; P-5; M-0; N-0
	(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing
	measures)
	Rationale: This measure has been in wide use over a number of years and is considered usable.
	4. Feasibility: <u>C-19; P-3; M-0; N-0</u>
	(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions - no additional data source; 4d. Susceptibility to
	inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)
	Rationale: This measure uses claims data thus was considered feasible.
	0340 Pediatric heart surgery volume (PDI 7)
	For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings
	Description: Number of discharges with procedure for pediatric heart surgery
	Numerator Statement: Discharges under age 18 with ICD-9-CM procedure codes for either congenital heart disease (1P) in any field of
	non-specific heart surgery (2P) with ICD-9-CM diagnosis of congenital heart disease (2D) in any field.
	Denominator Statement: This measure does not have a denominator due to the fact it is a volume measure.
	Exclusions: Not applicable. This measure does not have a denominator due to the fact it is a volume measure.
	Adjustment/Stratification: no risk adjustment necessary/No stratification is required for this measure.
	Level of Analysis: Facility/ Agency
	Type of Measure: Structure/management
	Data Source: Electronic administrative data/ claims
	Measure Steward: Agency for Healthcare Research and Quality 540 Gaither Road Rockville Maryland 20850
	Steering Committee Recommendation for Endorsement: Y-17; N-1; A-3
	Rationale: The measure was considered important, valid and meets criteria.
	If applicable, Conditions/Questions for Developer:
	 This measure and Measure 0339 should continue to be reported as a pair.
	Developer Response:
	 AHRQ agrees to continue to note the Pediatric heart surgery mortality and volume (339 and 340 respectively) are to be
	reported as a paired measure in related AHRQ QI documents.
	Steering Committee Follow-up:
	The Steering Committee agreed that the response from the developer was adequate.
	1. Importance to Measure and Report: Y-14; N-5
	(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)
	Rationale: The Committee noted the performance gap, which showed that the risk-adjusted mortality is higher at hospitals with fewer
	than 100 cases per year. The Committee requested timely updated citations in the future.
	2. Scientific Acceptability of Measure Properties: C-10; P-8; M-1; N-0
	(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f.
	Meaningful differences; 2g. Comparability; 2h. Disparities)
	Rationale: This reporting of pediatric heart surgery volume alone may not be valid since it occurs in small numbers. Additionally,
	pediatric heart surgery has become regionalized and is conducted at relatively few institutions.
	3. Usability: <u>C-10; P-8; M-1; N-0</u>
	(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing
	measures)
	Rationale: This measure has been in wide use over a number of years and is considered usable.
	4. Feasibility: <u>C-13; P-6; M-0; N-0</u>
I	(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to
1	inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)
L	Rationale: This measure uses claims data thus was considered feasible.
_	
	0352 Failure to rescue in-hospital mortality (risk adjusted)
L	For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings
ł	Description: Percentage of patients who died with a complications in the hospital.

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0352 Failure to rescue in-hospital mortality (risk adjusted)

Numerator Statement: Patients who died with a complication plus patients who died without documented complications. Death is defined as death in the hospital.

All patients in an FTR analysis have developed a complication (by definition).

Complicated patient has at least one of the complications defined in Appendix B(see website

http://www.research.chop.edu/programs/cor/outcomes.php). Complications are defined using the secondary ICD9 diagnosis and procedure codes and the DRG code of the current admission.

Comorbidities are defined in Appendix C (see website http://www.research.chop.edu/programs/cor/outcomes.php) using secondary ICD9 diagnosis codes of the current admission and primary or secondary ICD9 diagnosis codes of previous admission within 90 days of the admission date of the current admission.

*When physician part B is available, the definition of complications and comorbidities are augmented to include CPT codes. **Denominator Statement:** General Surgery, Orthopedic and Vascular patients in specific DRGs with complications plus patients who died in the hospital without complications.

Inclusions: adult patients admitted for one of the procedures in the General Surgery, Orthopedic or Vascular DRGs (see appendix A http://www.research.chop.edu/programs/cor/outcomes.php)

Exclusions: Patients over age 90, under age 18.

Adjustment/Stratification: risk-adjustment devised specifically for this measure/condition Risk Adjustment: Model was developed using logistic regression analysis.

Associated data elements: age in years, sex, race, comorbidities, DRGs (combined with and without complications) and procedure codes within DRGs, transfer status.

Failure to rescue is adjusted using a logistic regression model where y is a failure and the total N is composed of patients who develop a complication and patients who died without a complication.

According to developer: The model adjustment variables can vary. We have found that FTR results are fairly stable, even with little adjustment, since all patients in an FTR analysis have developed a complication (by definition), they are a more homogeneous group of patients than the entire population. Hence severity adjustment plays somewhat less of a role than in other outcome measures/Complicated patient has at least one of the complications defined in Appendix B.

measures/Complicated patient has at least one of the complications defined in Appendix B

(http://www.research.chop.edu/programs/cor/outcomes.php) Complications are defined using the secondary ICD9 diagnosis and procedure codes and the DRG code of the current admission. When Physician Part B file is available, the definition of complications and comorbidities are augmented to include CPT codes.

Level of Analysis: Facility/ Agency, Health Plan, Integrated Delivery System, Population: Counties or cities, Population: National, Population: Regional/ network, Population: States

Type of Measure: Outcome

Data Source: Electronic administrative data/ claims

Measure Steward: The Children's Hospital of Philadelphia | 3535 Market Street, Suite 1029 | Philadelphia | Pennsylvania | 19104 Steering Committee Recommendation for Endorsement: Y-19; N-1; A-1

Rationale: The measure provides information about how hospitals handle patients who develop complications; i.e., whether hospital systems are in place to prevent a patient complication from progressing to death.

If applicable, Conditions/Questions for Developer:

- 1. <u>2a.6 Target Population Age Range</u>: Reevaluate upper age limit in terms of increasing and providing exclusions to capture limited future; e.g., DNR status. In future, consider development of a companion pediatric measure.
- 2. 2h. Disparities in Care: Provide information about disparities or plans to be able to provide data.
- 3. <u>3a.2 Use in Public Reporting Initiative</u>: Provide plans and expected date (within 3 years) for public reporting.

Note: Discussion of Related and Competing measures may result in additional requests to developers specific to harmonization **Developer Response:**

 <u>2a.6 Target Population Age Range:</u> We use 90 years as a cut-point because of our concern regarding the increased use of donot-resuscitate at higher ages [Wenger et al. Epidemiology of Do-Not Resuscitate Orders. Disparity by Age, Diagnosis, Gender, Race, and Functional Impairment. Arch Intern Med. 1995; 155(19):2056-62, Hakim et al. Factors Associated with Do-Not-Resuscitate Orders: Patients', Preferences, Prognoses, and Physicians Judgments. Ann Intern Med.1996; 125:284-293.]. While we do adjust for admission severity when reporting FTR, and this includes age, we still thought it prudent to use an upper bound on age, since DNR status prior to the procedure is not well defined at hospitals [Tabak YP, Johannes RS, Silber JH, Kurtz SG, Gibber EM. Should do-not-resuscitate status be included as a mortality risk adjustor? The impact of DNR variations on performance reporting. Med Care 2005; 43:658-666] (See 2d.1 Measure Exclusions Explanation section in submission form). Currently, we are not considering developing a companion pediatric measure because in general the pediatric population has low mortality rates. However we are currently exploring the development of a pediatric FTR

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0352 Fai	ilure to rescue in-hospital mortality (risk adjusted)
	specifically for cardiothoracic surgery where mortality rates are higher.
2.	<u>2h. Disparities in Care:</u>
	2h.1. Disparities in care are shown in Silber et al Arch Surg 2009 where the results show white patients displayed a reduction
	in failure-to-rescue rates in the teaching intensive hospitals vs. non-teaching hospitals (OR, 0.94; 95% CI, 0.92-0.97), black
	patients displayed an increased failure-to-rescue rate (OR, 1.06; 95% CI, 1.00-1.12)(Results are based on 30 day mortality
	FTR however in-hospital showed similar results)
	2h 2 Eailure to Rescue can be used to detect disparities in health outcomes across providers, shown in Silber et al. Arch Surg
З	3a 2 Lee in Public Reporting Initiative: FTR information is online for the public to access
J.	<u>Jaiz Use in Fublic Reporting initiative</u> . I TR information is online for the public to access
	(http://stokes.chop.edu/programs/cor/outcomes.php). Consumers can access FTR results through the monthly research
	publications on the measure. In the future FIR could be reported on a wider scale, the same way that mortality rates are
o	reported.
Steering	
1.	The Steering Committee agreed that the response from the developer was adequate.
2.	This was one of three related measures considered for potential harmonization. The three included: maintenance measure
	0352: Failure to rescue in-hospital mortality (risk adjusted); maintenance measure 0351: Death among surgical in-patients with
	serious, treatable complications (PSI 4); and maintenance measure 0353: Failure to rescue 30-day mortality (risk adjusted).
	Discussion of the three measures is included here. It was noted that measures 0352 and 0353 were initially a single measure
	that were divided at request of the NQF steering committee that initially considered the measure. The Steering Committee
	discussed the in-hospital focused measures with the developers in some detail. They noted that while the measures have
	common elements, measure 0351 captures a broader list of procedures and that some measures of validity have a stronger
	association with that measure. They also noted that measure 0352 captures a broader group of complications and reliability
	measures higher than those of 0351 have been reported. Members commented that the measures, while conceptually similar.
	have different aims; i.e., capture of avoidable complications vs. failure to rescue. In reflecting on the question of whether
	measure similarities argue for consideration of whether one meets criteria better than the other, they agreed that the measures
	have different objectives and are complementary
1 Impor	tance to Measure and Report: Y-18: N-3
(1a Imn	act: 1b. Performance gan: 1c. Outcome or Evidence)
Dational	lat, no renormance gap, re. Outcome of Endenice,
orudo m	the measure complements mortancy and completation statistics, in provides additional insight mild statistics by looking beyond
	bitality and assesses whether hospital systems are in place to prevent a patient complication from progressing to death. This
	tis supported by the evidence.
Z. Scien	tific Acceptability of measure Properties: <u>0-9; P-11; M-1; N-0</u>
(2a. Prec	cise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f.
Meaning	ful differences; 2g. Comparability; 2h. Disparities)
Rational	le: The measure contains updated CPT codes. The measure is risk adjusted and the population captured includes patients with
and with	out documented complications. It assumes that if patients die post-surgery, there was an undocumented complication.
3. Usabi	lity: <u>C-7; P-12; M-2; N-0</u>
(3a. Mea	ningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing
measure	is)
Rationa	le: The measure is somewhat complicated and has not yet been used in public reporting.
4. Feasi	bility: <u>C-8; P-12; M-1; N-0</u>
(4a. Clin	ical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to
inaccura	cies/ unintended consequences identified 4e. Data collection strategy can be implemented)
Rational	le: The measure will be relatively easy to collect since it uses administrative data.
	· ·
0353 Fai	ilure to rescue 30-day mortality (risk adjusted)
For Mor	e Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings
Descript	tion: Percentage of patients who died with a complication within 30 days from admission.
Numera	tor Statement: Patients who died with a complication plus patients who died without documented complications. Death is

defined as death within 30 days from admission.

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All patients in an FTR analysis have developed a complication (by definition).

Complicated patient has at least one of the complications defined in Appendix B(see website

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0353 Failure to rescue 30-day mortality (risk adjusted)

http://www.research.chop.edu/programs/cor/outcomes.php). Complications are defined using the secondary ICD9 diagnosis and procedure codes and the DRG code of the current admission.

Comorbidities are defined in Appendix C(see website http://www.research.chop.edu/programs/cor/outcomes.php) using secondary ICD9 diagnosis codes of the current admission and primary or secondary ICD9 diagnosis codes of previous admission within 90 days of the admission date of the current admission.

*When physician part B is available, the definition of complications and comorbidities are augmented to include CPT codes. Denominator Statement: General Surgery, Orthopedic and Vascular patients in specific DRGs with complications plus patients who died in the hospital without complications.

Inclusions: adult patients admitted for one of the procedures in the General Surgery, Orthopedic or Vascular DRGs (see appendix A http://www.research.chop.edu/programs/cor/outcomes.php)

Inclusions: adult patients admitted for one of the procedures in the General Surgery, Orthopedic or Vascular DRGs (see appendix A) **Exclusions:** Patients over age 90, under age 18.

Adjustment/Stratification: risk-adjustment devised specifically for this measure/condition Risk Adjustment: Model was developed using logistic regression analysis.

Associated data elements: age in years, sex, race, comorbidities, DRGs (combined with and without complications) and procedure codes within DRGs, transfer status.

Failure to rescue is adjusted using a logistic regression model where y is a failure and the total N is composed of patients who develop a complication and patients who died without a complication.

According to developer: The model adjustment variables can vary. We have found that FTR results are fairly stable, even with little adjustment, since all patients in an FTR analysis have developed a complication (by definition), they are a more homogeneous group of patients than the entire population. Hence severity adjustment plays somewhat less of a role than in other outcome measures/Complicated patient has at least one of the complications defined in Appendix B

(http://www.research.chop.edu/programs/cor/outcomes.php) Complications are defined using the secondary ICD9 diagnosis and procedure codes and the DRG code of the current admission. When Physician Part B file is available, the definition of complications and comorbidities are augmented to include CPT codes.

Level of Analysis: Facility/ Agency, Health Plan, Integrated Delivery System, Population: Counties or cities, Population: National, Population: Regional/ network, Population: States

Type of Measure: Outcome

Data Source: Electronic administrative data/ claims

Measure Steward: The Children's Hospital of Philadelphia | 34th St. and Civic Center Blvd. | Philadelphia | Pennsylvania | 19104 Steering Committee Recommendation for Endorsement: Y-19; N-2; A-0

Rationale: The measure provides information about how hospitals handle patients who develop complications; i.e., prevent patient complications from progressing to death. It will also track difference in length of stay that could bias statistics associated with in-hospital mortality.

If applicable, Conditions/Questions for Developer:

- 2a.6 Target Population Age Range: Reevaluate upper age limit in terms of increasing and providing exclusions to capture 1 limited future; e.g., DNR status. In future, consider development of a companion pediatric measure.
- 2. 2h. Disparities in Care: Provide information about disparities or plans to be able to provide data.
- 3a.2 Use in Public Reporting Initiative: Provide plans and expected date (within 3 years) for public reporting. 3.
- Please advise how 30 day data is collected and how post-hospital care with potential for affecting outcomes is handled. 4.

Note: Discussion of Related and Competing measures may result in additional requests to developers specific to harmonization **Developer Response:**

2a.6 Target Population Age Range: We use 90 years as a cut-point because of our concern regarding the increased use of donot-resuscitate at higher ages [Wenger et al. Epidemiology of Do-Not Resuscitate Orders. Disparity by Age, Diagnosis, Gender, Race, and Functional Impairment. Arch Intern Med. 1995; 155(19):2056-62, Hakim et al. Factors Associated with Do-Not-Resuscitate Orders: Patients', Preferences, Prognoses, and Physicians Judgments. Ann Intern Med. 1996; 125:284-293.]. While we do adjust for admission severity when reporting FTR, and this includes age, we still thought it prudent to use an upper bound on age, since DNR status prior to the procedure is not well defined at hospitals [Tabak YP, Johannes RS, Silber JH, Kurtz SG, Gibber EM. Should do-not-resuscitate status be included as a mortality risk adjustor? The impact of DNR variations on performance reporting. Med Care 2005; 43:658-666] (See 2d.1 Measure Exclusions Explanation section in submission form)

Currently, we are not considering developing a companion pediatric measure because in general the pediatric population has low mortality rates. However we are currently exploring the development of a pediatric FTR specifically for cardiothoracic

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0353 Failure to rescue 30-day mortality (risk adjusted)

surgery where mortality rates are higher.

2. <u>2h. Disparities in Care:</u>

2h.1. Disparities in care are shown in Silber et al Arch Surg 2009 where the results show white patients displayed a reduction in failure-to-rescue rates in the teaching intensive hospitals vs. non-teaching hospitals (OR, 0.94; 95% CI, 0.92-0.97), black patients displayed an increased failure-to-rescue rate (OR, 1.06; 95% CI, 1.00-1.12)(Results are based on 30 day mortality FTR however in-hospital showed similar results)

2h.2. Failure to Rescue can be used to detect disparities in health outcomes across providers, shown in Silber et al. Arch Surg 2009.

3. <u>3a.2 Use in Public Reporting Initiative</u>: FTR information is online for the public to access

(http://stokes.chop.edu/programs/cor/outcomes.php). Consumers can access FTR results through the multiple research publications on the measure. In the future FTR could be reported on a wider scale, the same way that mortality rates are reported.

4. If one has administrative claims data that can be linked to post-discharge data, then one can report a 30-day from admission measure. The advantage of a 30-day measure is that it is unbiased with respect to the practice pattern of the hospital. All hospitals are judged with the same 30-day window whether they tend to discharge patients earlier than later. This is generally considered to be the gold standard for using mortality data. The FTR 30-day measure has the same advantages of the 30-day mortality measure. Analytic difficulties related to post-discharge care have the same likelihood of occurring across hospitals using the 30-day measure but would be more problematic if a uniform window would not be used.

Steering Committee Follow-up:

- 1. The Steering Committee agreed that the response from the developer was adequate.
- 2. This was one of three related measures considered for potential harmonization. The three included: maintenance measure 0352: Failure to rescue in-hospital mortality (risk adjusted); maintenance measure 0351: Death among surgical in-patients with serious, treatable complications (PSI 4); and maintenance measure 0353: Failure to rescue 30-day mortality (risk adjusted). Discussion of the three measures is included here. It was noted that measures 0352 and 0353 were initially a single measure that were divided at request of the NQF steering committee that initially considered the measure. The Steering Committee discussed the in-hospital focused measures with the developers in some detail. They noted that while the measures have common elements, measure 0351 captures a broader list of procedures and that some measures of validity have a stronger association with that measure. They also noted that measure 0352 captures a broader group of complications and reliability measures higher than those of 0351 have been reported. Members commented that the measures, while conceptually similar, have different aims; i.e., capture of avoidable complications vs. failure to rescue. In reflecting on the question of whether measures is argue for consideration of whether one meets criteria better than the other, they agreed that the measures have different objectives and are complementary.

1. Importance to Measure and Report: Y-17; N-3; A-0

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The measure complements mortality and complication statistics. It provides additional insight into statistics by looking beyond crude mortality and assesses whether hospital systems are in place to prevent a patient complication from progressing to death. This measure is supported by the evidence.

2. Scientific Acceptability of Measure Properties: C-6; P-12; M-2; N-0

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: The measure contains updated CPT codes. The measure is risk adjusted and the population captured includes patients with and without documented complications. It assumes that if patients die post-surgery, there was an undocumented complication.

3. Usability: <u>C-3; P-10; M-8; N-0</u>

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The measure uses administrative data and has been show to be useable; however, it may be complicated to track given the 30 day range.

4. Feasibility: C-3; P-10; M-7; N-1

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)

Rationale: This measure has not yet been used in public reporting. There were questions regarding feasibility of use of this measure for non-Medicare patients.

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201	

0351 Dea	th among surgical inpatients with serious, treatable complications (PSI 4)
For More	Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings
Descripti	ion: Percentage of cases having developed specified complications of care with an in-hospital death.
Numerato	or Statement: All discharges with a disposition of "deceased" (DISP=20) among cases meeting the inclusion and exclusion
rules for t	he denominator.
Denomin	ator Statement: All surgical discharges age 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium) defined by
specific D	RGs or MS-DRGs and an ICD-9-CM code for an operating room procedure, principal procedure within 2 days of admission OR
admissior	n type of elective (ATYPE=3) with potential complications of care listed in Death among Surgical definition (e.g., pneumonia,
DVT/PE.	sepsis, shock/cardiac arrest, or GI hemorrhage/acute ulcer).
Exclusion	ns: Exclude cases:
• age 90 v	vears and older
• transferr	red to an acute care facility (DISP = 2)
missing	discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), guarter (DOTR=missing), year
(VEAR=m	nissing) or principal diagnosis (DX1 = missing)
	dditional exclusion criteria is specific to each diagnosis (pneumonia, DVT/PE, sensis, shock/cardiac arrest, or GI
homorrho	
Aujustine	envoltatincation. This aujustment method widely of commercially available. The predicted value for each case is computed
using a m	redictical model (logistic regression with nospital random enect) and covariates for gendel, age in years (in 5-year age
groups), n	Toolined GWS DRG and ARRQ Comorbidules. The reference population used in the model is the universe of discharges for
states tha	It participate in the HCOP State inpatient Databases (SID) for the year 2007 (updated annually), a database consisting of 43
states and	a approximately 30 million adult discharges. The expected rate is computed as the sum of the predicted value for each case
divided by	y the number of cases for the unit of analysis of interest (i.e., hospital, state, and region). The risk adjusted rate is computed
using indi	rect standardization as the observed rate divided by the expected rate, multiplied by the reference population rate/User has an
option to s	stratify by Gender, age (5-year age groups), race/ ethnicity, primary payer, and custom stratifiers.
Level of A	Analysis: Facility/ Agency
Type of M	Measure: Outcome
Data Sou	Irce: Electronic administrative data/ claims
Measure	Steward: Agency for Healthcare Research and Quality 540 Gaither Road Rockville Maryland 20850
Steering	Committee Recommendation for Endorsement: <u>Y-20; N-0; A-1</u>
Rationale	e: This measure highlights specific complications, which presents opportunities for early interventions and action
If applica	ble, Conditions/Questions for Developer:
1.	2a.6 Target Population Age Range: Expand the age range to include a larger population.
Note	: Discussion of Related and Competing measures may result in additional requests to developers specific to harmonization.
Develope	er Response:
1.	There was an error in the NQF measure maintenance form, which noted age 75 years and older were excluded. The actual
	exclusion is age 90 years and older.
Steerina	Committee Follow-up:
1.	The Steering Committee agreed that the response from the developer was adequate, but requested that the developer update
	the age specifications listed on their website
2	This was one of three related measures considered for potential harmonization. The three included: maintenance measure
	0352: Eailure to rescue in-hospital mortality (risk adjusted): maintenance measure 0351: Death among surgical in-natients with
	serious treatable complications (PSI 4); and maintenance measure 0353; Failure to rescue 30-day mortality (risk adjusted)
	Discussion of the three measures is included here. It was noted that measures 0352 and 0353 were initially a single measure
	that were divided at request of the NOE steering committee that initially considered the measure. The Steering Committee
	discussed the in bespital focused measures with the developers in some detail. They noted that while the measures have
	another and the menoplian nouse a measures with the developers in some detail. They noted that while the measures of vehicles have
	common elements, measure 0001 captures a producer list or procedures and that some measures of validity nave a stronger
	association with that measure. They also noted that measure 0352 captures a broader group of complications and reliability
	measures planer than those of UK51 have been reported. Wembers commented that the measures, while conceptually similar
	measures ingrier than those of 000 maye been reported. Members commenced that the measures, while conceptually similar,
	have different aims; i.e., capture of avoidable complications vs. failure to rescue. In reflecting on the question of whether
	have different aims; i.e., capture of avoidable complications vs. failure to rescue. In reflecting on the question of whether measure similarities argue for consideration of whether one meets criteria better than the other, they agreed that the measures
	have different aims; i.e., capture of avoidable complications vs. failure to rescue. In reflecting on the question of whether measure similarities argue for consideration of whether one meets criteria better than the other, they agreed that the measures have different objectives and are complementary.

0351 Death among surgical inpatients with serious, treatable complications (PSI 4)

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: This goal of this measure is to capture information about a specific set of surgical complications that have been determined to provide opportunity for early intervention and improvement action.

2. Scientific Acceptability of Measure Properties: C-13; P-7; M-0; N-0

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: An advantage of this measure is that it focuses on a broad population, patients 18 and over.

3. Usability: <u>C-13; P-7; M-0; N-0</u>

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The measure is currently being widely reported to the public.

4. Feasibility: <u>C-14; P-5; M-0; N-0</u>

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) Rationale: The measure uses claims data and was considered feasible.

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0515 Ambulatory surgery patients with appropriate method of hair removal

For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings

Description: Percentage of ASC admissions with appropriate surgical site hair removal.

Numerator Statement: ASC admissions with surgical site hair removal with a razor or clippers from the scrotal area, or with clippers or depilatory cream from all other surgical sites

Denominator Statement: All ASC admissions with surgical site hair removal

Exclusions: ASC admissions who perform their own hair removal

Adjustment/Stratification: no risk adjustment necessary/No stratification is required for this measure.

Level of Analysis: Facility/Agency

Type of Measure: Process

Data Source: Paper medical record/ flow-sheet

Measure Steward: ASC Quality Collaboration | 5686 Escondida Blvd S | St. Petersburg | Florida | 33715

Steering Committee Recommendation for Endorsement: Y-12 (active); Y-7 (reserve); N-2; A-1

Rationale: This measure has high performance in the reporting populations. It would be appropriate to consider reporting the measure as part of a surgical bundle.

Steering Committee Follow-up:

The measure developer requested that the Committee's recommendation of the measure be revised from reserve status to active endorsement. The Steering Committee noted that the 96 percent performance on the measure reflected a convenience sample of the 192 institutions that reported and may not accurately reflect performance within the larger ambulatory surgery community. Members agreed that continuing active endorsement of the measure could encourage reporting by those ASCs not currently participating. The developer stated that measure has been proposed for inclusion in the ASC measure set by CMS, and nationwide reporting is anticipated in the next year or so. The Committee agreed that, depending on the increase in reporting, this could allow for a more comprehensive review of the performance gap in the future.

1. Importance to Measure and Report: Y-6; N-13

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The evidence supports the measure; however, at a mean performance level of 96 percent and just over 7 percent of reporting centers with rates below 100 percent, the measure is at a high level of performance.

2. Scientific Acceptability of Measure Properties: C-5; P-13; M-0; N-1

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: The Committee stated that the validity testing of the measure could be improved, and the measure did not present disparity data.

3. Usability: <u>C-7; P-9; M-2; N-1</u>

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The measure is in wide use. It was noted that this measure was harmonized with measure 0301: Surgery patients with

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0515 Ambulatory surgery patients with appropriate method of hair removal

appropriate hair removal.

4. Feasibility: C-13; P-4; M-2; N-0

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) **Rationale:** Required data is generated as part of care and does not require additional sources.

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1550 Hospital-level risk-standardized complication rate (RSCR) following elective primary total hip arthroplasty (THA) and total knee arthroplasty (TKA)

For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings

Description: This measure estimates hospital risk-standardized complication rates (RSCRs) associated with primary elective THA and TKA in patients 65 years and older. The measure uses Medicare claims data to identify complications occurring from the date of index admission to 90 days post date of the index admission.

Numerator Statement: This outcome measure does not have a traditional numerator and denominator like a core process measure (e.g., percentage of adult patients with diabetes aged 18-75 years receiving one or more hemoglobin A1c tests per year); thus, we are using this field to define the outcome (i.e. adverse events) following THA and/or TKA procedures.

The composite complication is a binary outcome (yes for any complication(s); no for no complications). Therefore, if a patient

experiences 1 or more complications, the outcome variable will get coded as a "yes." Complications are counted in the measure only if they occur during the index hospital admission or during a readmission.

The complications captured in the numerator are identified during the index admission or associated with a readmission up to 90 days post date of index admission, depending on the complication. The follow-up period for complications from date of index admission is as follows:

1) Mechanical complications - 90 days

2) Periprosthetic joint infection (PJI) - 90 days

3) Wound infection - 90 days

4) Surgical site bleeding - 30 days

5) Pulmonary embolism - 30 days

6) Death - 30 days

7) AMI - 7 days

8) Pneumonia - 7 days

9) Sepsis/septicemia - 7days

Denominator Statement: The target population for this measure includes admissions for patients at least 65 years of age undergoing elective primary THA and/or TKA procedures.

Exclusions: Patients will be excluded from the cohort if they meet any of the followed criteria:

1. Patients with hip fractures

Presence of one of the following diagnosis codes: 733.1, 733.10, 733.14, 733.15, 733.19, 733.8, 733.81, 733.82, 733.95, 733.96, 733.97, 808.0, 808.1, 820.00, 820.01, 820.02, 820.03, 820.09, 820.10, 820.11, 820.12, 820.13, 820.19, 820.20, 820.21, 820.22, 820.30, 820.31, 820.32, 820.8, 820.9, 821.8, 821.00, 821.01, 821.11, 821.10, 821.11

Rationale: Patients with hip fractures have higher mortality, complication and readmission rates and the procedure (THA) is not elective. 2. Patients undergoing revision procedures (with or without a concurrent THA/TKA)

Presence of one of the following diagnosis codes: 81.53, 81.55, 81.59, 00.70, 00.71, 00.72, 00.73, 00.80, 00.81, 00.82, 00.83, 00.84 Rationale: Revision procedures may be performed at a disproportionately small number of hospitals and are associated with higher mortality, complication and readmission rates.

3. Patients undergoing partial hip arthroplasty procedures (with or without a concurrent THA/TKA)

Presence of the following diagnosis code: 81.52

Rationale: Partial arthroplasties are primarily done for hip fractures and are typically performed on patients who are older, more frail, and with more comorbid conditions.

4. Patients undergoing resurfacing procedures (with or without a concurrent THA/TKA)

Presence of one of the following diagnosis codes: 00.85, 00.86, 00.87

Rationale: Resurfacing procedures are a different type of procedure which are typically performed on younger, healthier patients. 5. Patients who are transferred in to the index hospital

Rationale: If the patient is transferred from another acute care facility to the hospital where the index procedure occurs, it is likely that the procedure is not elective.

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1550 Hospital-level risk-standardized complication rate (RSCR) following elective primary total hip arthroplasty (THA) and total knee arthroplasty (TKA) 6. Patients who leave the hospital against medical advice (AMA) Rationale: Hospitals and physicians do not have the opportunity to provide the highest quality care. 7. Patients with more than two THA/TKA procedure codes during the index hospitalization Rationale: Patients with more than two procedure codes for THA/TKA are excluded because it is rare that a patient would have 3 arthroplasty procedures done at one time. This is likely to be a coding error. 8. Patients with multiple admissions for THA/TKA in the 12 months studied; one hospitalization per patient was randomly selected for inclusion after applying the other exclusion criteria Rationale: Admissions for the same patient are statistically dependent and it is preferable to include one admission per year in the measure. Adjustment/Stratification: Risk-adjustment devised specifically for this measure/condition/ The measure estimates hospital-level RSCRs using hierarchical logistic regression models. In brief, the approach simultaneously models outcomes at two levels (patient and hospital) to account for the variance in patient outcomes within and between hospitals (Normand et al., 2007). At the patient level, the model adjusts the log-odds of a complication for age, sex, and selected clinical covariates. The second level models the hospital-specific intercepts as arising from a normal distribution. The hospital intercept represents the underlying risk of complication at the hospital, after accounting for case mix. If there were no differences among hospitals, then after adjusting for case mix, the hospital intercepts should be identical across all hospitals. The measure adjusts for key variables that were clinically relevant and had strong relationships with the outcome (e.g. demographic factors, disease severity indicators, and indicators of frailty). For each patient, covariates are obtained from Medicare claims extending 12 months prior to and including the index admission. The model adjusts for case mix differences based on the clinical status of the patient at the time of admission. We use condition categories (CCs), which are clinically meaningful groupings of more than 15,000 ICD-9-CM diagnosis and procedure codes. Conditions that may represent adverse outcomes due to care received during the index admission are not considered for inclusion in the risk adjusted model. Although they may increase the risk of mortality and complications, including them as covariates in a risk-adjusted model could attenuate the measure's ability to characterize the guality of care delivered by hospitals. Hence, these conditions are not adjusted for if they only appear in the index admission and not in the 12 months prior to admission. The risk adjustment model included 33 variables which are listed below: Demographic 1. Age-65 (years above 65, continuous) 2. Sex THA/TKA Procedure 3. THA procedure 4. Number of procedures performed **Clinical Risk Factors** 5. Skeletal deformities (ICD-9 code 755.63) 6. Post traumatic osteoarthritis (ICD-9 codes 716.15, 716.16) 7. Morbid obesity (ICD-9 code 278.01) 8. Metastatic cancer and acute leukemia (CC 7) 9. Cancer (CC 8-10) 10. Respiratory/Heart/Digestive/Urinary/Other Neoplasms (CC 11-13) 11. Diabetes and DM complications (CC 15-20,119,120) 12. Protein-calorie malnutrition (CC 21) 13. Bone/Joint/Muscle Infections/Necrosis (CC 37) 14. Rheumatoid Arthritis and Inflammatory Connective Tissue Disease (CC 38) 15. Osteoarthritis of hip and knee (CC 40) 16. Osteoporosis and Other Bone/Cartilage Disorders (CC 41) 17. Dementia and senility (CC 49, 50) 18. Major psychiatric disorders (CC 54-56) 19. Hemiplegia, paraplegia, paralysis, function disability (CC 67-69, 100-102, 177-178) 20. Cardio-respiratory failure and shock (CC 79)

- 21. Chronic atherosclerosis (CC 83-84)
- 22. Stroke (CC 95, 96)
- 23. Vascular or circulatory disease (CC 104-106)
- 24. COPD (CC 108)

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1550 Hospital-level risk-standardized complication rate (RSCR) following elective primary total hip arthroplasty (THA) and total
knee arthroplasty (TKA)
25. Pneumonia (CC 111-113)
26. Pleural effusion/pneumothorax (CC 114)
27. End-stage renal disease or dialysis (CC 129, 130)
28. Renal Failure (CC 131)
29. Decubitus ulcer or chronic skin ulcer (CC 148, 149)
30. Trauma (CC 154-156,158-161)
31. Vertebral Fractures (CC 157)
32. Other injuries (CC 162)
33. Major complications of medical care and trauma (CC 164)
Normand S-LT, Shahian DM. 2007. Statistical and Clinical Aspects of Hospital Outcomes Profiling. Stat Sci 22 (2): 206-226.No
stratification is required for this measure.
Level of Analysis: Facility/ Agency
Type of Measure: Outcome
Data Source: Electronic administrative data/ claims
The datasets used to create the measures are described below. 1. 2008 Part A (inpatient) data
Part A inpatient data includes claims paid for Medicare inpatient hospital care, skilled nursing facility care, some home health agency
services, and hospice care. For purposes of this project, Part A is used to refer to inpatient services only and includes data from 2 time
periods:
a. Index admission: Index admission data are based on the inclusion/exclusion criteria for THA/TKA, and comorbidities (if any) are
identified from the secondary diagnoses associated with the index admission.
b. Pre-index: 12 months prior to the index admission ("pre-index").
2. 2008 Part A (outpatient) data – 12 months pre-index
Hospital outpatient refers to Medicare claims paid for the facility component of surgical or diagnostic procedures, emergency room care,
and other non-inpatient services performed in a hospital outpatient department or ambulatory surgical/diagnostic center.
3. Part B data – 12 months pre-index
Part B data refers to Medicare claims for the services of physicians (regardless of setting) and other outpatient care, services, and
supplies. For purposes of this project, Part B services included only face-to-face encounters between a care provider and patient. We
thus do not include services such as laboratory tests, medical supplies, or other ambulatory services.
4. 2008 Medicare Enrollment Database
This database contains Medicare beneficiary demographic, benefit/coverage, enrollment status on admission, and vital status
information. These data have previously been shown to accurately reflect patient vital status (Fleming Fisher et al., 1992).
Fleming C., Fisher ES, Chang CH, Bubolz D, Malenda J. Studying outcomes and hospital utilization in the elderly: The advantages of a
merged data base for Medicare and Veterans Affairs Hospitals. Medical Care. 1992; 30(5): 377-91.
Measure Steward: Centers for Medicare & Medicaid Services 7500 Security Blvd, Mail Stop S3-02-01 Baltimore Maryland 21244
Steering Committee Recommendation for Endorsement: Y-20; N-0; A-2
Rationale: This is a high volume, costly procedure that has been increasingly performed and will be important to measure and report.
If applicable, Conditions/Questions for Developer:
Developer Response:
If applicable, Questions to the Steering Committee:
1. Importance to Measure and Report: Y-19: N-1
(1a. Impact: 1b. Performance gap: 1c. Outcome or Evidence)
Rationale: This is a high volume, costly procedure that has been increasingly performed. There are a number of complications
associated with this procedure.
2. Scientific Acceptability of Measure Properties: C-11 [•] P-8 [•] M-1 [•] N-0
(2a Precise specifications: 2b Reliability testing: 2c Validity testing: 2d Exclusions justified: 2e Risk adjustment/stratification: 2f
Meaningful differences: 2a. Comparability: 2h. Disparities)
Rationale: The measure is valid. The follow-up timing varies depending on the complication. There is a segment of patients that will not
he counted with this measure based on the age range, which is limited to nation to be and over. The risk adjustment is conditioned
The Committee questioned why deep vein thrombosis (DVT) and urinary tract infections (UTIs) were considered exclusions and noted
that the included complications are appropriate
3 Usahility: C-10: P-10: M-0: N-0
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1550 Hospital-level risk-standardized complication rate (RSCR) following elective primary total hip arthroplasty (THA) and total knee arthroplasty (TKA)

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The information relies on claims data and is useful for reporting even though timing for the complications may make it more complicated in that there are at different intervals; i.e., 7, 30, 90 days.

4. Feasibility: C-14; P-6; M-0; N-0

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) **Rationale:** The measure was considered feasible based on the use of administrative claims data.

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1551 Hospital-level 30-day all-cause risk-standardized readmission rate (RSRR) following elective primary total hip arthroplasty (THA) and total knee arthroplasty (TKA)

For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings

Description: This measure estimates hospital 30-day RSRRs following elective primary THA and TKA in patients 65 years and older. The measure uses Medicare claims data to develop a hospital-level RSRR for THA and TKA and will include patients readmitted for any reason within 30 days of discharge date of the index admission. Some patients are admitted within 30 days of the index hospitalization to undergo another elective THA/TKA procedure. These are considered planned readmissions and are NOT counted in the measure as readmissions.

Numerator Statement: This outcome measure does not have a traditional numerator and denominator like a core process measure (e.g., percentage of adult patients with diabetes aged 18-75 years receiving one or more hemoglobin A1c tests per year); thus, we are using this field to define readmissions.

The outcome for this measure is a readmission to any acute care hospital, for any reason occurring within 30 days of the discharge date of the index hospitalization. We do not count planned readmissions in the outcome (see numerator details).

Denominator Statement: The target population for this measure includes admissions for patients at least 65 years of age undergoing primary THA and/or TKA procedures.

Exclusions: Patients will be excluded from the cohort if they meet any of the followed criteria:

1. Patients with hip fractures

Presence of one of the following diagnosis codes: 733.1, 733.10, 733.14, 733.15, 733.19, 733.8, 733.81, 733.82, 733.95, 733.96, 733.97, 808.0, 808.1, 820.00, 820.01, 820.02, 820.03, 820.09, 820.10, 820.11, 820.12, 820.13, 820.19, 820.20, 820.21, 820.22, 820.30, 820.31, 820.32, 820.8, 820.9, 821.8, 821.00, 821.01, 821.1, 821.10, 821.11

Rationale: Patients with hip fractures have higher mortality, complication and readmission rates and the procedure (THA) is generally not elective.

2. Patients undergoing revision procedures (with or without a concurrent THA/TKA)

Presence of one of the following procedure codes: 81.53, 81.55, 81.59, 00.70, 00.71, 00.72, 00.73, 00.80, 00.81, 00.82, 00.83, 00.84 Rationale: Revision procedures may be performed at a disproportionately small number of hospitals and are associated with higher mortality, complication, and readmission rates.

3. Patients undergoing partial hip arthroplasty procedures (with or without a concurrent THA/TKA)

Presence of the following procedure code: 81.52

Rationale: Partial arthroplasties are primarily done for hip fractures and are typically performed on patients who are older, more frail, and with more comorbid conditions.

4. Patients undergoing resurfacing procedures (with or without a concurrent THA/TKA)

Presence of one of the following procedure codes: 00.85, 00.86, 00.87

Rationale: Resurfacing procedures are a different type of procedure which are typically performed on younger, healthier patients.

5. Patients without at least 30-days post-discharge enrolment in Medicare

Rationale: The 30-day readmission outcome cannot be assessed for the standardized time period.

6. Patients who are transferred in to the index hospital

Rationale: If the patient is transferred from another acute care facility to the hospital where the index procedure occurs, it is likely that the procedure is not elective.

7. Patients who were admitted for the index procedure and subsequently transferred to another acute care facility

Rationale: Attribution of readmission to the index hospital would not be possible in these cases, since the index hospital performed the procedure but another hospital discharged the patient to the non-acute care setting.

8. Patients who leave against medical advice (AMA)

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE
1551 Hospital-level 30-day all-cause risk-standardized readmission rate (RSRR) following elective primary total hip arthroplasty (THA) and total knee arthroplasty (TKA)

Rationale: Hospitals and physicians do not have the opportunity to provide the highest quality care for these patients. 9. Patients with more than two THA/TKA procedures codes during the index hospitalization

Rationale: Patients with more than two procedure codes for THA/TKA are excluded because it is rare that a patient would have 3 arthroplasty procedures done at one time. This is likely to be a coding error.

10. Patients who die during the index admission

Rationale: Patients who die during the initial hospitalization are not eligible for readmission.

Additional otherwise qualifying THA and/or TKA admissions that occurred within 30 days of discharge date of an earlier index admission are not considered as index admission. They are considered as potential readmissions. Any THA and/or TKA admission is either an index admission or a potential readmission, but not both.

Adjustment/Stratification: Risk-adjustment devised specifically for this measure/condition The measure estimates hospital-level 30day all-cause RSRRs using hierarchical logistic regression models. In brief, the approach simultaneously models outcomes at two levels (patient and hospital) to account for the variance in patient outcomes within and between hospitals (Normand et al., 2007). To model the log-odds of 30-day all-cause readmission at the patient level, the model adjusts for age, sex, and selected clinical covariates. The second level models the hospital-specific intercepts as arising from a normal distribution. The hospital intercept represents the underlying risk of readmission at the hospital, after accounting for case mix. If there were no differences among hospitals, then after adjusting for case mix, the hospital intercepts should be identical across all hospitals. The measure adjusts for key variables that are clinically relevant and have strong relationships with the outcome (e.g. demographic factors, disease severity indicators, and indicators of frailty). For each patient, covariates are obtained from Medicare claims extending 12 months prior to and including the index admission. The model adjusts for case mix differences based on the clinical status of the patient at the time of admission. We use condition categories (CCs), which are clinically meaningful groupings of more than 15,000 ICD-9-CM diagnosis and procedure codes. We do not risk-adjust for CCs that are possible adverse events of care and that are only recorded in the index admission. In addition, only comorbidities that convey information about the patient at that time or in the 12-months prior, and not complications that arise during the course of the hospitalization are included in the risk-adjustment. The risk adjustment model included 33 variables which are listed below:

Demographics

1. Age-65 (years above 65, continuous)

2. Sex

- TKA/THA Procedure
- 3. THA procedure
- 4. Number of procedures (2 vs.1)
- **Clinical Risk Factors**
- 5. History of Infection (CC 1, 3-6)
- 6. Metastatic cancer and acute leukemia (CC 7)
- 7. Cancer (CC 8-12)
- 8. Diabetes and DM complications (CC 15-20, 119, 120)
- 9. Protein-calorie malnutrition (CC 21)
- 10. Disorders of Fluid/Electrolyte/Acid-Base (CC 22, 23)
- 11. Rheumatoid Arthritis and Inflammatory Connective Tissue Disease (CC 38)
- 12. Severe Hematological Disorders (CC 44)
- 13. Dementia and senility (CC 49, 50)
- 14. Major psychiatric disorders (CC 54-56)
- 15. Hemiplegia, paraplegia, paralysis, functional disability (CC 67-69, 100-102, 177-178)
- 16. Polyneuropathy (CC 71)
- 17. Congestive Heart Failure (CC 80)
- 18. Chronic Atherosclerosis (CC 83-84)
- 19. Hypertension (CC 89, 91)
- 20. Arrhythmias (CC 92, 93)
- 21. Stroke (CC 95, 96)
- 22. Vascular or circulatory disease (CC 104-106)
- 23. COPD (CC 108)
- 24. Pneumonia (CC 111-113)
- 25. End-stage renal disease or dialysis (CC 129, 130)

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE

1551 Hospital-level 30-day all-cause risk-standardized readmission rate (RSRR) following elective primary total hip arthroplasty (THA) and total knew arthroplasty (TKA)
26 Denal Eailure (CC 121)
27. Desubitus ulger er abronia skin ulger (CC 148, 140)
27. Decubility dicer of chronic skin dicer (CC 140, 149)
20. Other Injuries (CC162)
29. Other Injunes (CC 102) 30. Major Symptome, Abnormalities (CC 166)
31. Skolatal Defermities (ICD 9 endo 755 63)
22. Doot Troumatic Octoporthritic (ICD 9 codes 716 15, 716 16)
33. Morbid Obesity (ICD 9 code 278 01)/No stratification is required for this measure
Lovel of Analysis: Easility/ Agency
Type of Measure: Outcome
Data Source: Electronic administrative data/ claims
We obtained index admission, readmission, and in bespital comprisidity data from Medicara's Standard Analytic File (SAE)
Comorbidities were also assessed using Part A inpatient, outpatient, and Part B office visit Medicare claims in the 12 months prior to
comorbidities were also assessed using rait A inpatient, outpatient, and rait D onice visit medicare claims in the 12 months prior to index admission. Enrollment and past discharge mertality status were obtained from Medicare's oprollment database which contains
Index admission. Enrollment and post-discharge monality status were obtained from Medicare's enrollment database which contains
1. 2009 Det A (insetion) dete
1. 2000 Fait A (Ilipatient) data
Part A inplatent data includes claims for medicate inplatent hospital care, skilled furshing facility care, some nome field agency
perious.
a. Index admission. Index admission data are based on the index admission chiena for THATRA, and comorbidities (if any) are identified from the percendent diagnesses appealed with the index admission.
be index 10 mental prior to the index admission ("pre-index")
D. FIE-Index. 12 months phot to the index dumission (pie-index).
2. 2000 Fait A (outpatient) data – 12 months pre-index Heapitel autrations refere to Medicare claime paid for the facility component of ourgical or discussion precedures, emergency room care
Hospital outpatient refers to medicate claims paid for the facility component of surgical of diagnostic procedures, emergency room care,
and other non-inpatient services performed in a nospital outpatient department or ambulatory surgical/diagnostic center.
5. Fail D udia – 12 months pre-index Dart D data refere to Madiagra alaims for the convision of neuroisians (regardless of cotting) and other outpatient core, convision, and
Fail D data refers to medicate claims for the services of physicians (regardless of setting) and other outpatient care, services, and setting and patient. We
supplies. For purposes of this project, Fait & services included only face-to-face encounters between a care provider and patient. We thus do not include convisos such as laboratory tosts, modical supplies, or other ambulatory sorvices.
Inus up not include services such as laboratory tests, medical supplies, or other ambulatory services.
Stearing Committee Decommendation for Endersoment: X 20: N 0: A 2
Rationale: This is a high volume, costly procedure that has been increasingly performed and will be important to measure and report
If applicable. Conditions/Questions for Developer:
n applicable, continions/questions for Developer.
If annlicable. Questions to the Steering Committee:
1 Importance to Measure and Report: V_20: N_0
(1. Importance to measure and Report. <u>1-20, N=0</u>)
Rationale: This is a high volume, costly procedure that has been increasingly performed. There are a number of complications
associated with this procedure
2 Scientific Accentability of Measure Properties: C-15: P-5: M-0: N-0
(2) Drociso specifications: 2h. Deliability testing: 2n. Validity testing: 2d. Evolusions justified: 2n. Disk adjustment/stratification: 2f
(za. Freuse specifications, zb. Reliability testing, zc. validity testing, zu. Exclusions justified, ze. Risk aujustifieritisti autoation, zi. Meaningful differences: 2a. Comparability: 2b. Disparities)
Retinned unreferees, 29. Comparating, 21. Dispances) Rationale: This was considered valid and easier to measure than 1550 Hospital level risk standardized complication rate (RSCR)
following elective primary total bin arthroplasty (THA) and total knee arthroplasty (TKA) since it focuses on all causes for readmission
other than for elective printing intercedures. There is a segment of natients that will not be counted within this measure based on the age range
which is limited to patients aged 65 years and over. The risk adjustment is sonbisticated. The Committee questioned why deep vein
thromhosis (DV/T) and urinary tract infactions (LITIs) were considered exclusions
3 Ileahility: C-16: P-4: M-0: N-0
(3a Meaningful/useful for nublic reporting and quality improvement: 3b. Harmonized: 3c. Distinctive or additive value to existing
נשמ. ויוסמוווויזיטוויטסוט וטו עטווט ופעטוווויז מווע עטמונץ וווועוטיפוווסוו, ש. דומוווטוווצפט, ש. שושנווטויע טו מטטווועפ עמועפ נט פאושנווע הספטורסט
Rationale: The measure is in wide use
A Fascibility: C-14: P.6: M.0: NL0

1551 Hospital-level 30-day all-cause risk-standardized readmission rate (RSRR) following elective primary total hip arthroplasty

285

(THA) and total knee arthroplasty (1	ſKA)
(4a. Clinical data generated during ca	re process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to
inaccuracies/ unintended consequenc	es identified 4e. Data collection strategy can be implemented)
Rationale: This measure is based on	administrative claims data.
1536 Cataracts: Improvement in pa	tient's visual function within 90 days following cataract surgery
For More Information: Detailed Measure	sure Specifications: Complete Measure Submission: Meeting/Call Proceedings
Description: Percentage of patients a	aged 18 years and older who had cataract surgery and had improvement in visual function
achieved within 90 days following the	cataract surgery
Numerator Statement: Patients 18 v	ears and older in sample who had improvement in visual function achieved within 90 days following
cataract surgery, based on completing	a pre-operative and post-operative visual function instrument
Denominator Statement: All patients	aged 18 years and older in sample who had cataract surgery
Exclusions:	
Adjustment/Stratification: no risk ad	diustment necessary/ A risk adjustment methodology is not necessary if the stratification schema is
utilized, as described above / This me	asure can be stratified into two major groups: those patients with ocular co-morbidities and those
patients without ocular co-morbidities.	An improvement in visual function after cataract surgery would be expected in both groups.
however the magnitude of the differen	ce would vary by group. The Cataract Patient Outcomes Research Team found that an important
preoperative patient characteristic tha	t was independently associated with failure to improve on one of the outcomes measured
(including the VF-14) was ocular come	providity. The authors explained that this was expected, because it is reasonable to assume that
other diseases that impair visual funct	ion would be correlated with a reduced improvement in functional status. The National Eve Care
Outcomes Network also found that the	ere were differences in the mean postooperative VF-14 scores across groups of patients with and
without ocular co-morbidities, as seen	in the table below. The study involving the Rasch-scaled short version of the VF-14 also found
differences between the preoperative	and postoperative visual function test scores and differences between preoperative and
postoperative visual function tests, as	seen below.
National Evecare Outcomes Network	
Mean VF-14 (postoperative)	
- Total 92.7	
- With ocular comorbidity 89.9	
- Without ocular comorbidity 94.	6
Rasch-Scaled Short Version of the VF	-14
Patients without Ocular Comorbidity -	Preop VF-8R - 68.87
Postop VF-8R	- 86.22
Mean Diff = 17	.35
Patients with Ocular Comorbidity - P	reop VF-8R - 67.71
Postop VF-8R	- 81.58
Mean Diff = 13	.87
A list of codes for comorbidities can be	e found in the AMA PCPI measure for 20/40 visual acuity after cataract surgery:
Acute and subacute iridocyclitis	364.00
Acute and subacute iridocyclitis	364.01
Acute and subacute iridocyclitis	362.02
Acute and subacute iridocyclitis	364.03
Acute and subacute iridocyclitis	364.04
Acute and subacute iridocyclitis	364.05
Amblyopia 368.01	
Amblyopia 368.02	
Amblyopia 368.03	
Burn confined to eye and adnexa	940.0
Burn confined to eye and adnexa	940.1
Burn confined to eye and adnexa	940.2
Burn confined to eye and adnexa	940.3
Burn confined to eye and adnexa	940.4
Burn confined to eye and adnexa	940.5

1536 Cataracts: Improvement in patient's visual function within 90) days following cataract surgery
Burn confined to eye and adnexa 940.9	
Cataract secondary to ocular disorders 366.32	
Cataract secondary to ocular disorders 366.33	
Certain types of iridocyclitis 364.21	
Certain types of iridocyclitis 364.22	
Certain types of iridocyclitis 364.23	
Certain types of iridocyclitis 364.24	
Certain types of iridocyclitis 364.3	
Choroidal degenerations 363.43	
Choroidal detachment 363.72	
Choroidal hemorrhage and rupture 363.61	
Choroidal hemorrhage and rupture 363.62	
Choroidal hemorrhage and rupture 363.63	
Chorioretinal scars 363.30	
Chorioretinal scars 363.31	
Chorioretinal scars 363.32	
Chorioretinal scars 363.33	
Chorioretinal scars 363.35	
Chronic iridocyclitis 364.10	
Chronic iridocyclitis 364.11	
Cloudy cornea 371.01	
Cloudy cornea 371.02	
Cloudy cornea 371.03	
Cloudy cornea 371.04	
Corneal edema 371.20	
Corneal edema 3/1.21	
Corneal edema 371.22	
Corneal edema 371.23	
Correct edema 371.43	
Comeal energity and other disorders of corners 271.00	
Corneal opacity and other disorders of cornea 371.00	
Correct opacity and other disorders of correct 371.05	
Comear opacity and other disorders of comea 371.04	
Degenerative disorders of globe 360.20	
Degenerative disorders of globe 360.21	
Degenerative disorders of globe 360.23	
Degenerative disorders of globe 360.24	
Degeneration of macula and posterior pole 362.50	
Degeneration of macula and posterior pole 362.50	
Degeneration of macula and posterior pole 362.57	
Degeneration of macula and posterior pole 362.52	
Degeneration of macula and posterior pole 362.54	
Degeneration of macula and posterior pole 362.55	
Degeneration of macula and posterior pole 362.56	
Degeneration of macula and posterior pole 362.57	
Disseminated chorioretinitis and disseminated retinochoroiditis	63 10
Disseminated chorioretinitis and disseminated retinochoroiditis	63.11
Disseminated chorioretinitis and disseminated retinochoroiditis 36	63.12
Disseminated chorioretinitis and disseminated retinochoroiditis 36	63.13
Disseminated chorioretinitis and disseminated retinochoroiditis 36	63.14
Disseminated chorioretinitis and disseminated retinochoroiditis 36	63.15
Diabetic retinopathy 362.01	

Diabetic retinopathy 362.02 Diabetic retinopathy 362.03 Diabetic retinopathy 362.05 Diabetic retinopathy 362.06 Diabetic retinopathy 362.07 Disorders of optic chiasm 377.51 Disorders of optic chiasm 377.53 Disorders of optic chiasm 377.54 Disorders of optic chiasm 377.54 Focal chorioretinitis and focal retinochoroiditis 363.00 Focal chorioretinitis and focal retinochoroiditis 363.04 Focal chorioretinitis and focal retinochoroiditis 363.05 Focal chorioretinitis and focal retinochoroiditis 363.05 Focal chorioretinitis and focal retinochoroiditis 363.06 Focal chorioretinitis and focal retinochoroiditis 363.07 Focal chorioretinitis and focal retinochoroiditis 363.07 Focal chorioretinitis and focal retinochoroiditis 363.08 Glaucoma 365.10 Glaucoma 365.10 Glaucoma 365.12 Glaucoma 365.13 Glaucoma 365.13 Glaucoma 365.13 Glaucoma 365.20 Glaucoma 365.21 Glaucoma 365.21 Glaucoma 365.21 Glaucoma 365.23 Glaucoma 365.24 Glaucoma 365.23 Glaucoma 365.23 Glaucoma 365.23 Glaucoma 365.24 Glaucoma 365.24 Glaucoma 365.25 Glaucoma 365.24 Glaucoma 365.25 Glaucoma 365.	1536 Cataracts: Improvem	ent in patient's vis	ual function within 90 days following	cataract surgery
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NQF REVIEW DRAFT—DO NOT CITE OR QUOTE NQF MEMBER comments due October 26, 2011 6:00 PM ET; PUBLIC comments due October 19, 2011 6:00 PM ET

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1 Schein OD, Steinberg EP, Cassard SD et al. Predictors of outcome in patients who underwent cataract surgery. Onbthalmology		
1995: 102:817-23		
2 Lum F. Schachat AP, Jampel HD The development and demise of a cataract surgery database. Jt Comm J Qual Improv 2002		
Mar:28(3):108-14.		
3. Gothwal VK. Wright TA. Lamoureux EL. Pesudovs K. Measuring outcomes of cataract surgery using the Visual Function Index-14. J		
Cataract Refract Surg 2010: 36:1181-8. no risk adjustment necessary		
Level of Analysis: Clinicians: Individual		
Type of Measure: Outcome		
Data Source: Survey: Patient		
Measure Steward: American Academy of Ophthalmology and Hoskins Center for Quality Eye Care 655 Beach Street San Francisco		
California, 94109-1336		
Steering Committee Recommendation for Endorsement: Y-16; N-4; A-1		
Rationale: The Committee verified the importance of patient centered measures such as this one noting that the additional information		
that is provided from the patient perspective about visual function makes this an important and useful measure.		
If applicable, Conditions/Questions for Developer:		
Overarching comment: The numerator, denominator with the inclusions and exclusions should be refined to capture patients		
relevant to the measure focus and the measure should be tested with the changes that are made.		
1. <u>2a.3 Numerator Details</u> : a) Provide the method (e.g., scale or other method to demonstrate improvement quantatively pre- and		
post- surgery) to define "improvement"; b) It appears inappropriate to include, in the numerator, patients who do not complete		
visual function assessments; reevaluate how these cases should be handled; c) Indicate whether objective vs. subjective		
improvement by survey only; d) Specify whether patient is surveyed both pre-and post-surgery. If only post-surgery, is the		
patient asked to rate vision preoperatively and asked to rate vision post-operatively, or is the patient asked to rate the number		
or points or improvement?		
 <u>Za.9 Denominator Exclusions</u>: Excluding patients who do not want to complete the survey inappropriately inflates the rate. <u>2a.9 Deta Seurop/Data Callection Instrumentum</u>, Mantifu the anasific test/a) used for the measure and required information. 		
 <u>za.25</u> Data Source/Data Collection Instrument: a) loentity the specific tool(s) used for the measure and provide information about the use for which it/they have been validated (e.g., self administration, provider facilitated administration, at a b b) by the load 		
about the use for which interesting assessment of visual function/aquity should be supplement with such a measurer a) Define		
survey methodology: Is it a mail survey, phone survey, in office paper survey with questions asked by office staff? Is the		
survey memourous. Is it a mail survey, priorie survey, in onice paper survey with questions asked by onice stall? Is the survey of the entire population of those with cataract surgery or a sample? If a sample, please specify sampling methodology		
4 3a 2 Use in Public Reporting Initiative: Provide plans and expected date (within 3 years) for public reporting		
5. 4e Data Collection Strategy: Clarify more specifically the burden on providers of data collection		
Developer Response:		

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1536 Cataracts: Improvement in patient's visual function within 90 days following cataract surgery

1. <u>2a.3 Numerator Details</u>: a) The method to define "improvement" used is the quantitative scale used pre and post surgery to measure visual function with the VF-8R instrument. The scale is from 0-100, with 0 indicating the lack of ability to perform any of the daily activities and 100 indicating full capability of performing the daily activities included in the survey. Currently in the scientific literature, there is no well-established method to define a threshold or interval that indicates improvement on the VF-8R. The Rasch scale has found to be more sensitive to change than the VF-14 in longitudinal studies and has a different scale for scoring than the VF-14. The VF-14 is based on summative scoring, which has no rationale for how numerical values are assigned and how a summary score is produced, and does not give a sense of the degree of change. The Rasch model is based on Item Response Theory, which is based on item difficulty in relationship to an individual's ability and weighs the overall score accordingly, providing a gain in precision. Thus any difference between the pre-operative and post-operative assessment on the VF-8R was 15.39 (Standard error = 2.66). In the literature, there have been two studies looking at the clinically important differences for the VF-14 index. One study

found that the minimal clinically important difference was 15.57; another study found that the minimally clinically important difference was 5.5. b) Regarding the cases that do not complete visual function instruments; these will not be included in the numerator. c) This is subjective improvement by patient self-reporting by survey, as measured by the VF-8R instrument. d) The patient is surveyed both pre- and post-surgery.

- 2. <u>2a.9 Denominator Exclusions</u>: We agree and will not exclude patients who do not want to complete the survey.
- 3. 2a.25 Data Source/Data Collection Instrument: a) The specific tool used for the measure is the VF-8R. The information about the use for which it has been validated is self- administration. There are at least two peer-reviewed studies in the literature reports demonstrating the validity and responsiveness of the self-administered VF-14. b) It is important to supplement the existing measure for objective assessment of visual acuity because this new measure centers on patient quality of life, ability to perform activities of daily living and is a patient-reported outcome. This is the outcome most critical and applicable to the patient. Visual acuity is an objective assessment of visual function but only describes one aspect of visual function. Visual function has multiple components in addition to central near, intermediate, and distance visual acuity. It also encompasses peripheral vision; visual search; binocular vision; depth perception; contrast sensitivity; perception of color; adaptation; and visual processing speed; all of which cannot be measured in a visual acuity test. This measure focuses on the functional disability caused by visual impairment, because many activities of daily living are affected by one or more of these components of visual function. c) The survey methodology is described as follows. The survey would be administered by a third party (a registry for reporting of PQRS measures) to prevent or minimize bias which might be introduced if it is an in-office paper survey with questions asked by the office staff. Options would be provided to the patient, either online survey, mail survey or phone survey, depending on their preferences and abilities. The survey would be of a sample of those individuals with cataract surgery. The sample size would be postulated at 30, because this is a well-accepted statistical sample and used by the CMS for reporting on measure groups in PQRS. Because visual function is reported at 90 days after surgery, this would allow physicians to identify 30 cases from January –August for reporting purposes.
- 4. <u>3a.2 Use in Public Reporting Initiative:</u> This is planned for public reporting through the CMS PQRS within the next 3 years.
- 5. <u>4e Data Collection Strategy:</u> The sampling strategy of 30 cases, and the use of a third party (a registry for reporting of PQRS measures initiated by the Academy) should significantly alleviate the burden on providers of data collection. Providers would not be responsible for collecting this data from patients and following up on their response.

Steering Committee Follow-up:

- 1. The Steering Committee stated that the data collection strategy involving the use of a third party and registry initiated by the Academy would alleviate the burden on providers. The Steering Committee clarified that about 94 percent of practicing ophthalmology practices belong to the Academy but that non-members could also be included in the registry.
- 2. This was one of two related measures considered for potential harmonization. The two included: new candidate measure 1536: Cataracts: Improvement in patient's visual function within 90 days following cataract surgery; and endorsed measure 0565: Cataracts: 20/40 or better visual acuity within 90 days following cataract surgery. Discussion of the two measures is included here. The Steering Committee noted that measures 1536 and 0565 are similar but not competing since one measures acuity and the other patient perception of visual function. Potential for harmonization was discussed in terms of numerator and denominator as well as data gathering strategies. It was determined that harmonization could result in the loss of valuable information. The group also liked the fact that measure 1536 measures patient satisfaction. Variation between the measures was considered acceptable since the measures are designed to capture different things/data.

1. Importance to Measure and Report: Y-18; N-1

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The Committee recognized the frequent occurrence of cataract surgery in the United States. They also affirmed the

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1536 Cataracts: Improvement in patient's visual function within 90 days following cataract surgery

importance of patient-centered measures. In this measure, visual function is considered a more broad assessment than that of visual acuity.

2. Scientific Acceptability of Measure Properties: C-2; P-12; M-4; N-1

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: The Committee was advised that the tool used for assessment of visual function had been validated. It was questioned how the measure defined visual improvement. The time window of the measure may need to be extended to take into account multi-focal implants, which are now being used to improve visual acuity. The Committee suggested measuring the improvement in visual function for patients with and without comorbidities.

3. Usability: <u>C-1; P-15; M-1; N-2</u>

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The tool is self-administered. The return rate has been 50 percent; which is considered a good rate for surveys. Some patient contact has been required to increase return rate. The Committee encouraged the developer to reconsider this practice. They did note the value to consumer decision making to have the type of information the measure provides.

4. Feasibility: C-1; P-12; M-4; N-2

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)

Rationale: It was questioned whether patients could accurately assess their visual acuity. In addition to potential bias introduced by calling patients to respond, they also mentioned that the exclusion criteria of "patient refused to participate" may bias the results. Additionally, conducting the survey will incur a cost and the burden on the provider was described as unclear.

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0528 Prophylactic antibiotic selection for surgical patients

For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings

Description: Surgical patients who received prophylactic antibiotics consistent with current guidelines (specific to each type of surgical procedure).

Numerator Statement: Surgical patients who received recommended prophylactic antibiotics for specific surgical procedures **Denominator Statement:** All selected surgical patients with no evidence of prior infection.

Included Populations:

An ICD-9-CM Principal Procedure Code of selected surgeries (as defined in Appendix A, Table 5.10 for ICD-9-CM codes). AND

An ICD-9-CM Principal Procedure Code of selected surgeries (as defined in Appendix A, Table 5.01-5.08 for ICD-9-CM codes). **Exclusions:** Excluded Populations:

Patients less than 18 years of age

Patients who have a length of Stay greater than 120 days

Patients who had a principal diagnosis suggestive of preoperative infectious diseases (as defined in Appendix A, Table 5.09 for ICD-9-CM codes)

Patients whose ICD-9-CM principal procedure was performed entirely by Laparoscope

Patients enrolled in clinical trials

Patients whose ICD-9-CM principal procedure occurred prior to the date of admission

Patients with physician/advanced practice nurse/physician assistant (physician/APN/PA) documented infection prior to surgical procedure of interest

Patients who expired perioperatively

Patients who were receiving antibiotics more than 24 hours prior to surgery (except colon surgery patients taking oral prophylactic antibiotics)

Patients who were receiving antibiotics within 24 hours prior to arrival (except colon surgery patients taking oral prophylactic antibiotics) Patients who did not receive any antibiotics before or during surgery, or within 24 hours after Anesthesia End Time (i.e., patient did not receive prophylactic antibiotics)

Patients who did not receive any antibiotics during this hospitalization

Adjustment/Stratification: no risk adjustment necessary/The antibiotic prophylaxis measures are stratified according to surgery type. The tables are subsets of Table 5.10 (see link for Specification Manual and Appendix A, Tables 5.01 to 5.08. The specific procedures must be in the large table (Table 5.10) to be eligible for the SCIP measures. The measure specific tables for SCIP-Inf-2 are 5.01 to 5.08.

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0500 Breach de stie activité a selection fon compiled motionte
US28 Prophylactic antibiotic selection for surgical patients
Level of Analysis: Facility/ Agency, Population: National, Can be measured at all levels, Program: QIO
Type of Measure: Process
Data Source: Electronic administrative data/ claims; Electronic Health/ Medical Record; Paper medical record/ flow-sheet
Most facilities use vendors to collect the data electronically. CMS provides a free, downloadable tool called CART. A paper tool modeled
after the data collected electronically is provided as an attachment. CART downloads can be found on QualityNet.org at
http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier2&cid=1138900279093
Measure Steward: Centers for Medicare & Medicaid Services 7500 Security Boulevard , Mail Stop S3-01-02 Baltimore Maryland
21244-1850
Steering Committee Recommendation for Endorsement: Y-22: N-1: A-1
Rationale: This measure was described as appropriate and important to encourage continued focus on post surgical infection.
Steering Committee Follow-un:
This was one of three related measures considered for notential harmonization. The three included: maintenance measure 0126
Selection of antibiotic pronbulaxic for cardiac surgery nationte: and read measure (268: Selection of pronbulatic antibiotic: Eirst or
selection of antibiotic prophylaxis for cardiac surgery patients, endorsed measure 0200. Selection of prophylactic antibiotic. First of
second generation cephalosponn, and maintenance measure 0520. Prophylactic antibiotic selection for surgical patients. Discussion of
the three measures is included here. The Steering Committee determined there were no competing measures in the group. Members
made no recommendations for narmonization of measure 0126 which is limited to cardiac surgery and is derived from registry data.
Members requested that measures 0268 and 0528 be combined into a single measure from which the cephalosporin data for individual
clinicians required by 0268 could be reported as a subset. For the measure not within the current project (AMA-PCPI measure 0268),
NQF staff will relay the request of the Committee for developer action as they update and test the measure.
1. Importance to Measure and Report: <u>Y-18; N-0</u>
(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)
Rationale: The measure is strongly supported by evidence. While performance rates are relatively high, room for improvement remains.
2. Scientific Acceptability of Measure Properties: C-15; P-3; M-0; N-0
(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f.
Meaningful differences; 2g. Comparability; 2h. Disparities)
Rationale: The science behind the antibiotic selections is good but will need to continue to be harmonized with national guidelines as
they come out. The Committee noted that including laparoscopic procedures will no longer be an exclusion effective January 1, 2012,
which they supported.
3. Usability: C-16: P-2: M-0: N-0
(3a. Meaningful/useful for public reporting and quality improvement: 3b. Harmonized: 3c. Distinctive or additive value to existing
measures)
Rationale: The Committee indicated that the measure will require ongoing harmonization with national quidelines as they are released
4 Feasibility: C-15: P-3: M-0: N-0
(4a. Clinical data generated during care process: 4b. Electronic sources: 4c. Exclusions – no additional data source: 4d. Suscentibility to
inaccuracies/ unintended consequences identified do. Data collection strategy can be implemented)
Pationale: The Committee stated that the measure was feasible based on data source.
Rationale. The Committee Stated that the measure was leasible based on data source.
0126 Selection of antibiotic prophylaxis for cardiac surgery patients
For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings
Description: Percent of patients aged 18 years and older undergoing cardiac surgery who received preoperative prophylactic antibiotics
recommended for the operation.
Numerator Statement: Number of patients undergoing cardiac surgery who received a first generation or second generation
cephalosporin prophylactic antibiotic (e.g., cefazolin, cefuroxime, cefamandole) preoperatively or in the event of a documented allergy,
an alternate antibiotic choice (e.g., vancomycin, clindamycin) was ordered and administered preoperatively.
Denominator Statement: Number of patients undergoing cardiac surgery
Exclusions: Exclusions include:
- Patients who had a principal diagnosis suggestive of preoperative infectious diseases
- Patients whose ICD-9-CM principal procedure was performed entirely by Laparoscope
- Patients enrolled in clinical trials
- Patients with documented infection prior to surgical procedure of interest

- Patients who expired perioperatively

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Patients who were receiving antibiotics more than 24 hours prior to surgery

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0126 Selection of antibiotic prophylaxis for cardiac surgery patients
 Patients who were receiving antibiotics within 24 hours prior to arrival
- Patients who did not receive any antibiotics before or during surgery, or within 24 hours after anesthesia end time (i.e., patient
did not receive prophylactic antibiotics)
 Patients who did not receive any antibiotics during this hospitalization
This list will be provided in the STS Adult Cardiac Surgery Database Data Manager's Training Manual as acceptable exclusions.
AbxSelect is marked "Exclusion"
Adjustment/Stratification: no risk adjustment necessary N/A N/A
Level of Analysis: Clinicians: Group, Facility/ Agency, Population: Counties or cities, Population: National, Population: Regional/
network, Population: States
Type of Measure: Process
Data Source: Registry data
Measure Steward: Society of Thoracic Surgeons 633 North Saint Clair Street, Suite 2320 Chicago Illinois 60611
Steering Committee Recommendation for Endorsement: Y-22; N-1; A-1
Rationale: The Committee affirmed that the seriousness of infections following these procedures makes this measure and its focus
important to track and agreed that 92 percent performance indicates room for continued improvement.
Steering Committee Comments:
This was one of three related measures considered for potential harmonization. The three included: maintenance measure 0126:
Selection of antibiotic prophylaxis for cardiac surgery patients: endorsed measure 0268: Selection of prophylactic antibiotic: First or
second generation cephalosporin; and maintenance measure 0528: Prophylactic antibiotic selection for surgical patients. Discussion of
the three measures is included here. The Steering Committee determined there were no competing measures in the group. Members
made no recommendations for harmonization of measure 0126 which is limited to cardiac surgery and is derived from registry data.
Members requested that measures 0268 and 0528 be combined into a single measure from which the cephalosporin data for individual
clinicians required by 0268 could be reported as a subset. For the measure not within the current project (AMA-PCPI measure 0268).
NQF staff will relay the request of the Committee for developer action as they update and test the measure.
1. Importance to Measure and Report: Y-19; N-0
(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)
Rationale: The evidence indicated that the use of prophylactic antibiotics can decrease the incidence of mediastinitis, which ranges
between 0.25 percent and 4 percent. The seriousness of infection in the population measured suggests that even at 92 percent
performance, additional improvement should be expected and sought.
2. Scientific Acceptability of Measure Properties: C-15; P-4; M-0; N-0
(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f.
Meaningful differences: 2g. Comparability: 2h. Disparities)
Rationale: The measure focus on prophylaxis and measure specifications were considered appropriate and valid.
3. Usability: C-17; P-2; M-0; N-0
(3a. Meaningful/useful for public reporting and quality improvement: 3b. Harmonized: 3c. Distinctive or additive value to existing
measures)
Rationale: The measure has been in use since 2007 and is publicly reported on the STS and Consumers Union websites.
4. Feasibility: C-18: P-1: M-0: N-0
(4a. Clinical data generated during care process; 4b. Electronic sources: 4c. Exclusions – no additional data source: 4d. Susceptibility to
inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)
Rationale: The measure was considered feasible based on its continued use over time.
0264 Prophylactic intravenous (IV) antibiotic timing
For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings
Description: Data of ACC notion to who received IV antibiotics ordered for surgical site infection promotevices impo

Description: Rate of ASC patients who received IV antibiotics ordered for surgical site infection prophylaxis on time **Numerator Statement:** Number of ambulatory surgical center (ASC) admissions with a preoperative order for a prophylactic IV antibiotic for prevention of surgical site infection who received the prophylactic antibiotic on time

Denominator Statement: All ASC admissions with a preoperative order for a prophylactic IV antibiotic for prevention of surgical site infection

Exclusions: ASC admissions with a preoperative order for a prophylactic IV antibiotic for prevention of infections other than surgical site infections (e.g., bacterial endocarditis).

ASC admissions with a preoperative order for a prophylactic antibiotic not administered by the intravenous route.

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0264 Prophylactic intravenous (IV) antibiotic timing

Adjustment/Stratification: no risk adjustment necessary/No stratification is required for this measure.

Level of Analysis: Facility/ Agency

Type of Measure: Process

Data Source: Paper medical record/ flow-sheet

Measure Steward: ASC Quality Collaboration | 5686 Escondida Blvd S | St. Petersburg | Florida | 33715

Steering Committee Recommendation for Endorsement: Y-18; N-1; A-3

Rationale: This measure was considered important to measure and report despite its small performance gap. The Committee wants to see disparities information prior to making any determination regarding continued reporting of the measure.

If applicable, Conditions/Questions for Developer:

- 1. <u>2a.1 Numerator Statement</u>: Clarify 'on time.' Suggested modification-Instead of 'on time' change to 'one hour.'
- <u>2h. Disparities in Care</u>: Please submit any subpopulation performance data that is available for the measures. The committee understands that ASCs do not have a quality reporting system requirement; however, assessment of subpopulation data is important and should be collected and reported for this and other measures.

Developer Response:

In response to your suggestion, we are offering two items for your consideration:

- 1) Our rational for our current use of 'on time' and
- 2) What we will do if our rationale is not compelling to the Committee.

For clarification of "on time", please see Section 2a.3. Numerator Details on the measure submission form. The pertinent material is reproduced here:

2a.3. Numerator Details (All information required to collect or calculate the numerator, including all codes, logic, and definitions) DEFINITIONS:

On time: antibiotic infusion is initiated within one hour prior to the time of the initial surgical incision or the beginning of the procedure (e.g., introduction of endoscope, insertion of needle, inflation of tourniquet) or two hours prior if vancomycin or a fluoroquinolone is administered:

This approach was selected in order to allow a concise numerator statement that clearly conveys the performance expectation of the measure, which is that any prophylactic IV antibiotics ordered preoperatively will be given in a timely manner. Defining "on time" separately allows us to avoid inserting a parenthetical modification in the numerator statement to address the two-hour exception for vancomycin and fluoroquinolones. Defining "on time" separately also allows us to simultaneously address several issues pertaining to timeliness: 1) how the time interval is to be measured (from initiation of infusion to the initial surgical incision, 2) how the time interval is to be measured for procedures that do not involve an incision, or that involve the inflation of a tourniquet, and 3) the existence of two allowable timeframes, depending upon the type of antibiotic administered. The data collected using these specifications supports the reliability of this approach. This method has been well received by the facilities that use the measure and we would prefer to continue to specify the measure in this manner.

However, if the measure will not continue to be endorsed in the absence of the modification suggested above, we would then revise the numerator statement to read as follows, which more closely mimics the phrasing of the other related measures: Number of ambulatory surgical center (ASC) admissions with a preoperative order for a prophylactic IV antibiotic for prevention of surgical site infection with prophylactic antibiotic initiated within one hour prior to surgical incision (two hours if initiating vancomycin or a fluoroquinolone)

We would also delete the current data element definition of "on time" and add a new statement regarding "surgical incision": DEFINITIONS:

Surgical incision: For purposes of this measure, the initial surgical incision or the beginning of the procedure (e.g., introduction of endoscope, insertion of needle, inflation of tourniquet).

{At this time, we have <u>not</u> made any changes regarding this specific issue to the measure currently on line. We will make the needed changes once we have direction from the steering committee.}

<u>2h. Disparities in Care</u>: Please submit any subpopulation performance data that is available for the measures. The committee understands that ASCs do not have a quality reporting system requirement; however, assessment of subpopulation data is important and should be collected and reported for this and other measures.

Response: The data the ASC Quality Collaboration currently receives for this measure is collected at the ASC-level or at the level of the corporate parent of the ASC. Corporate parent data submissions combine data from multiple ASCs. Disparity measures by population group require the collection of patient-level data or collection of the data for individual populations of patients. At this time, the ASC Quality Collaboration does not have access to any patient-level or individual population level data that would allow for analysis of subpopulation disparities based on race, sex and age. However, we understand the importance of subpopulation data and are taking steps that would allow us to collect the necessary data. We are actively

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0264 Prophylactic intravenous (IV) antibiotic timing

pursuing the development of a registry that would allow us to develop subpopulation performance data for this measure and others. Potential registry development vendors have been identified and initial communications regarding the project have already taken place. We plan to select a vendor by third quarter of 2011, initiate the development of the registry database immediately upon contract acceptance, and have a functioning registry three months thereafter.

ADDITIONAL INFORMATION and Response from Measure Developer:

We have also revised 1b2/1b3/1b4/2f1/2f2/2f3 for this measure #0264 Antibiotic Timing to provide additional clarity:

1b.2. Summary of Data Demonstrating Performance Gap (Variation or overall poor performance across providers) Although data for 671 ASCs are included in the ASC Quality Collaboration (ASC QC) database for this measure, many report at the corporate level and do not report data for individual ASCs. The ASC QC database includes center-level rates for this measure for 349 ASCs throughout the US. The rates for this measure are based on the 349 individually-reporting ambulatory surgery centers, located throughout the US. The rate for timely administration of a pre-operative antibiotic ranged from a minimum of 0.2% to a maximum of 100%. The mean rate was 96% (SD: 14.6%), while the median rate was 100%. The minimum compliance rate of 0.2% demonstrates that there is a significant opportunity for improvement in this measure.

1b.3. Citations for Data on Performance Gap

Although data for 671 ASCs are included in the ASC QC database, many report at the corporate level and do not report data for individual ASCs. The ASC QC database includes center-level rates for this measure for 349 ASCs throughout the US. The 349 individually-reporting ambulatory surgery centers represent a convenience sample that may be used to assess the opportunity for improvement for this measure. The centers were located throughout the US. Data collected for second calendar quarter of 2010 were included in this portion of the study.

1b.4. Summary of Data on Disparities by Population Group

This measure is currently collected at the ASC-level or at the level of the corporate parent of the ASC. Disparity measures by population group require the collection of patient-level data or collection of the data for individual populations of patients. The ASC QC is investigating a number of strategies that will make this type of data available and hopes to add this component in the near future.

2f.1. Data/Sample (Description of the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included)

Although data for 671 ASCs are included in the ASC QC database, many report at the corporate level and do not report data for individual ASCs. The ASC QC database includes center-level rates for this measure for 349 ASCs throughout the US. The rates for this measure were collected for the 349 individually-reporting ambulatory surgery centers throughout the US for services provided during April to June 2010.

2f.2. Methods to Identify Statistically Significant and Practical or Meaningful Differences in Performance (Type of analysis and rationale)

An individual ASC's rate for timely administration of antibiotic may be compared to the standard rate from the ASC Quality website (http://www.ascquality.org/qualityreport.cfm#Antibiotic). A statistically significant difference in performance may be detected by using a standard test of proportions as outlined in most standard statistical texts. Since each delay in administration of the preoperative antibiotic may represent increased surgical site infection risk for the patient, a rate lower than the 94.4% is also of practical significance.

The null hypothesis for this test is that the sample proportion from the ASC is not different from the industry standard taken from the ASC Quality website. The alternative is that there is a statistically significant difference. We recommend that this test be performed in its two-sided form so that the ASC may determine if they are either statistically higher or lower than the standard. The recommended p-value for this test is the 0.05 level, but ASCs may have justification for different value. Using this statistical method for detecting significant variances from the industry standard will allow users to determine if differences may be due to sampling error or may indicate a true difference in performance.

2f.3. 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 rate for timely administration of antibiotic ranged from a minimum of 0.2% to a maximum of 100%. The mean rate was 96.0% (SD: 14.6%), while the median rate was 100%. The maximum rates of 100% and a third quartile value of 100% demonstrate that there is an opportunity for improvement in this measure and that full compliance (100%) is achievable for all centers.

Steering Committee Follow-Up:

The Steering Committee agreed that the response from the developer was adequate.

1. Importance to Measure and Report: Y-17; N-2

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: Performance on the measure is high; however disparities information is not presented. ASC noted that only about 900 of the

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U264 Prophylactic intravenous (IV) antibiotic timing
eligible 5,200 institutions report.
2. Scientific Acceptability of Measure Properties: <u>U-10; P-9; M-0; N-0</u> (2) Draging appeifications: 2) Deliphility tecting: 2) Velidity tecting: 2d Evaluations justified: 2) Disk adjustment/stratification: 2f
(2a. Precise specifications; 2b. Renability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2l.
Meaningful differences, 2g. Comparability, 2n. Dispaniles)
Rationale: The Committee questioned why the measure focused on antibiotics being provided in a one nour timeiname.
3. Usability: <u>C-12; P-7; M-0; N-0</u>
(3a. Meaningtu/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing
medsures)
A Feesibility C 12: D C M 0: N 0
4. Feasibility. <u>0-15, F-0, IVI-0, IVI-0</u> (A. Clinical data concreted during care process) Ab Electronic sources: Ac Evaluations — no additional data sources: Ad Succentibility to
(4d. Clinical udia generation during care process, 4b. Electronic sources, 4c. Exclusions – no additional udia source, 4d. Susceptibility to inaccuracies (unintended consequences identified Ap. Data collection strategy can be implemented)
Pationale: The measure uses precedure endes, which makes it less burdencome for ambulatory surgical conters to collect
0527 Prophylactic antibiotic received within 1 hour prior to surgical incision
For More Information: Detailed Measure Specifications: Complete Measure Submission: Meating/Call Proceedings
Description : Detailed intersub destine optimizations, Complete intersuit obtaints stort, intertainty Call Proceedings
Description: Surgical patients with prophylactic antibiotics initiated within one nour phor to surgical incision. Patients who received
vancomych of a nuoroquinoione for prophylactic antibiotics should have the antibiotics initiated within two hours phor to surgical incision.
Due to the longer infusion time required for varicomych of a huoroquinolone, it is acceptable to start these antibiotics within two nours
prior to incision time. Numerater Statement: Number of auraical nationts with prophylastic antibiotics initiated within one hour prior to auraical incision (two
hours if receiving vencemvein in Appendix C. Table 2.9, or a fluorequinelene, in Appendix C. Table 2.10)
nouis in receiving vancomycin, in Appendix C, Table 5.0, of a nuoroquinolone, in Appendix C, Table 5.10).
Denominator Statement: All selected surgical patients with no evidence of phor infection. Table 5.10 is the complete table of selected
Indjoi surgenes Evaluaianas Datianta lass than 19 years of are
Exclusions: Patients less than 10 years of age
Patients who had a bystarastemy and a sesserean sestion performed during this beanitalization
Patients who had a principal diagnostic augrestice of programming infectious diagonases (so defined in Appendix A. Table 5.00 for ICD 0.
COUES) Detients where ICD 0, CM principal precedure was performed entirely by Leneroscene
Patients whose ICD-9-Civi principal procedure was performed entirely by Laparoscope
Patients where ICD 0 CM principal precedure accurred prior to the date of admission
Patients whose ICD-9-Civi principal procedure occurred prior to the date of admission
raterits with physician advanced practice nuise/physician assistant (physician/APN/PA) documented intection phon to surgical presedure of interest
procedure of interest.
Patients who had other procedures requiring general of spinal anesthesia that occurred within 5 days (4 days for CABG of Other Cardiac Surgery) prior to an offer the precedure of interest (during concrete surgical epicodes) during this begaited story
Surgery) phot to or after the procedure of interest (during separate surgical episodes) during this hospital stay
Patients who were receiving antibiotics more than 24 hours prior to surgery.
Adjustment/Stratification, no rick adjustment percent processor/The antibiotic prophylaxic measures are stratified according to surgery time.
Aujustment/Stratinication: no hisk aujustment necessary/ me antibiotic prophytaxis measures are stratined according to surgery type.
The tables are subsets of Table 5.10 (see link for specification intanual and Appendix A, Tables 5.01 to 5.05. The specific procedures
must be in the large table (Table 5.10) to be eligible for the SOLF measures. The measure specific tables for SOLF-INT-1 are 5.01 to 5.08.
Level of Analysis. Can be measured at an levels, Facility/ Agency, Population: National, Program: QIO
Type of Measure. Flocess Data Source: Electronic administrative data/ alaime. Electronic Health/ Medical Depart. Depart medical record/ flow check
Data Source. Electronic duministrative data/ Gams, Electronic fiediul/ Medical Record, Paper medical record, now-sheet
tool modeled after the data collected electronically is provided as an attachment. CAPT downloade son he found on Cuplitublet are st
tool modeled after the data collected electronically is provided as an attachment. CART downloads can be found on QualityNet.org at http://www.gualitynet.org/doc/ContentConver2o=Doce2o=ContentConver2o
http://www.quaitynet.org/ucs/contentoerver/con
21244-1000 Stearing Committee Decommendation for Endercoments V 01: N 0: A 4
Determing committee Recommendation for Endorsements: <u>1-21, N-2, A-1</u>
rationale. The measure locus and specifications are appropriate. Ferrormance presents disparity data that demonstrates performance

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0527 Prophylactic antibiotic received within 1 hour prior to surgical incision

gaps across subpopulations.

Steering Committee Follow-up:

This was one of five related measures considered for potential harmonization. The five included: maintenance measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients; endorsed measure 0269: Timing of prophylactic antibiotics-administering physician; endorsed measure 0270: Timing of antibiotic prophylaxis-ordering physician; maintenance measure 0527: Prophylactic antibiotic received within 1 hour prior to surgical incision SCIP-Inf-1; and endorsed measure: 0472: Prophylactic antibiotic received within one hour prior to surgical incision or at the time of delivery-cesarean section. Discussion of the five measures is included here. The Steering Committee requested that the developer of measures 0270 and 0269, neither of which are under consideration in this project, be approached by NQF staff to determine the current state of these measures and encourage them to consider combining them into a single measure that focuses on administration. Based on their opinion that timing of antibiotics administration prior to surgical incision, including for cardiac surgery, should not be different. Members asked that the developers of the five measures be asked to collaborate on the potential for combining the measures into a single measure that, to the extent possible, closely mirrors measure 0527. As part of that effort, they asked that the developer of measure 0472 provide information about any differences that would make administration of antibiotic at delivery unique. They did not view incision for cesarean unique. With respect to measure 0125, they asked that the developer provide information about whether registry data would provide significantly different outcomes than administrative/claims data across institutions. For the measures not within the current project (AMA-PCPI measure 0269 and 270 and Massachusetts General measure 0472), NQF staff will relay the request of the Committee for their action and feedback.

If applicable, Conditions/Questions for Developer:

Developer Response:

If applicable, Questions to the Steering Committee:

1. Importance to Measure and Report: Y-19; N-0

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The measure focus is supported by the evidence. While the performance gap has been reduced over time, the measure continues to demonstrate a performance gap that could be improved. It was also noted that the gap still exists for general surgeries compared with cardiac surgeries.

2. Scientific Acceptability of Measure Properties: C-13; P-6; M-0; N-0

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: The measure focus and specifications are appropriate. The request that laparoscopic procedure be removed from the exclusions will become effective January 1, 2012.

3. Usability: <u>C-14; P-5; M-0; N-0</u>

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The measure has been widely used for some time; harmonization with the similar measures below should be considered:

#0125: Timing of antibiotic prophylaxis for cardiac surgery patients

#0269: Timing of prophylactic antibiotics - administering physician

#0270: Timing of antibiotic prophylaxis- ordering physician

#0472: Prophylactic antibiotic received within one hour prior to surgical incision or at the time of delivery - cesarean section.

4. Feasibility: <u>C-18; P-1; M-0; N-0</u>

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)

Rationale: The Committee stated that the measure was feasible based on the data required and its record of use.

290

291	
292	Candidate Consensus Standards Recommended for Reserve Status Endorsement
293	One measure was recommended for continued endorsement and placement in "reserve status". ¹²
294 295	The evaluation summary table lists the measure and summarizes the results of the Steering Committee's evaluation of and voting on the candidate consensus standard that is recommended for endorsement and
296	placement in reserve status. Hyperlinks are provided:
297	• from the listed measure to the evaluation summary table;
298 299	• from the summary table to the web page where all materials submitted by the developer or steward are posted; and
300 301	• from the summary table to the web page where the meeting and call summaries, transcripts, and recordings can be accessed.
302	The Steering Committee recommended the following candidate consensus standard for endorsement and
303	placement in reserve status.
304	
305 306 307 308 309 310	General, Ophthalmology, Orthopedics and Pediatrics 0301 Surgery patients with appropriate hair removal
	0301 Surgery patients with appropriate hair removal
	For More Information: Detailed Measure Specifications; Complete Measure Submission; Meeting/Call Proceedings Description: Percentage of surgery patients with surgical hair site removal with clippers or depilatory or no surgical site hair removal. Numerator Statement: Surgery patients with surgical hair site removal with clippers or depilatory or no surgical site hair removal. Denominator Statement: All selected surgery patients Include patients with an ICD-9-CM Principal Procedure Codes of selected surgeries. Exclusions: Excluded Populations: Patients less than 18 years of age Patients who have a length of Stay greater than 120 days Patients enrolled in clinical trials Patients whose ICD-9-CM principal procedure occurred prior to the date of admission Patients whose ICD-9-CM principal procedure occurred prior to the date of admission Patients whose ICD-9-CM principal procedure occurred prior to the date of admission Patients who performed their own hair removal Adjustment/Stratification: no risk adjustment necessary/No stratification is required for this measure. Level of Analysis: Facility/ Agency, Can be measured at all levels, Population: National, Program: QIO Type of Measure: Process Data Source: Electronic administrative data/ claims, Electronic Health/ Medical Record: Electronic Provider Survey/ Paper medical record/ flow-sheet Most facilititis use vendors to collect the data electronically. CMS

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Steering Committee Recommendation for Endorsement:	Recommended and placement in Reserve Status Y-14 (reserve); Y-5
<u>(active); N-2; A-1</u>	
Rationale: This measure is at a high level of performance but	should remain available in the event periodic surveillance demonstrates
drop in performance. It addresses the important concern of su	urgical site infections (SSI).
If applicable, Conditions/Questions for Developer:	
Developer Response:	
If applicable, Questions to the Steering Committee:	
1. Importance to Measure and Report: Y-4; N-15	
(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)	
Rationale: This measure is at a high level of performance. Me	edicare data indicates consistent high performance with a 99.6 percent
appropriate rate of hair removal in the second quarter of 2010	. Concern about discontinuing regularly reporting was centered on the
potential to have performance drop (e.g., return of use of razo	rs the operating room for economic reasons). The measure is on the lis
of CMS measures to be retired in 2013 or 2014. It would be a	opropriate to consider reporting the measure as a component of a surgica
bundle. There is evidence from randomized trials and systemation and systematic structure and systematic structure and systematic structures and systemat	atic review that support the measure focus; though, the Committee noted
lack of "absolutely" clear evidence.	
2. Scientific Acceptability of Measure Properties: C-10; P.	<u>-8; M-0; N-1</u>
(2a. Precise specifications; 2b. Reliability testing; 2c. Validity t	esting; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f.
Meaningful differences; 2g. Comparability; 2h. Disparities)	
Rationale: The measure is supported by the literature though	t it contains numerous exclusions. Both the number and some of the
specific exclusions (self hair removal) were discussed in some	e length and accepted.
3. Usability: <u>C-12; P-5; M-1; N-1</u>	
(3a. Meaningful/useful for public reporting and quality improve	ment; 3b. Harmonized; 3c. Distinctive or additive value to existing
measures)	
Rationale: The measure is part of a group of surgical site infe	ection measures that are publicly reported widely.
4. Feasibility: <u>C-13; P-5; M-1; N-0</u>	
(4a. Clinical data generated during care process; 4b. Electron	ic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility
inaccuracies/ unintended consequences identified 4e. Data co	ollection strategy can be implemented)
Rationale: The data is drawn from patient health records and	claims data.

312 Candidate Consensus Standards Pending Final Recommendation for

313 Endorsement

- 314 The Steering Committee review of related and competing measures involved consideration of a number of
- 315 measures in the current project as well as related NQF-endorsed measures that are not part of the project.
- 316 Recommendations for harmonization were made that have impact on measures under consideration in this
- 317 project.
- 318
- 319 The relevant developers have been asked to collaborate on harmonization. Until the outcome of developer
- 320 joint discussions regarding harmonization are provided, the Steering Committee will not finalize
- 321 endorsement recommendations since measure specification changes are expected. Final action on these
- 322 measures will be reflected in an addendum to Phase II that will be available for NQF Public and Member
- 323 comment and Member vote in the coming months.
- 324

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE

- 325 Evaluation summary tables follow the list of measures and summarize the results of the Steering
- 326 Committee's evaluation of and voting on the candidate consensus standards that are to be considered for
- 327 continued or initial endorsement in an addendum to Phase II that will be available for NQF Public and
- 328 Member comment and Member vote in the coming months. Hyperlinks are provided:

329	• from each listed measure to the evaluation summary table;	
330	• from each summary table to the web page where all materials submitted by the developed	er or
331	steward are posted; and	
332	• from each summary table to the web page where the meeting and call summaries, transc	ripts, and
333	recordings can be accessed.	
334		
335	The Steering Committee will further consider the following candidate consensus standards for	
336	endorsement after input from the developers. Their action will be reflected in an addendum to Pa	hase II.
337 338 339 340 341	Cardiac, Appendectomy and Pancreatic Resection 0365 Pancreatic resection mortality rate (IQI 9) (risk adjusted) 0366 Pancreatic resection volume (IQI 2)	
342	Cardiac and Vascular	
343	0357 Abdominal aortic aneurysm (AAA) repair volume (IQI 4)	54
344	0359 Abdominal aortic artery (AAA) repair mortality rate (IQI 11)	56
345	1523 In-hospital mortality following elective open repair of small AAAs	59
346 347	1534 In-hospital mortality following elective EVAR of small AAAs	61
348	General, Prophylaxis and Wound Dehiscence	
349	0128 Duration of antibiotic prophylaxis for cardiac surgery patients	62
350 351	0529 Prophylactic antibiotics discontinued within 24 hours after surgery end time	63
352	EVALUATION SUMMARY—CANDIDATE CONSENSUS STANDARDS PENDING FI	NAL

353 **RECOMMENDATION FOR ENDORSEMENT**

354

 0365 Pancreatic resection mortality rate (IQI 9) (risk adjusted)

 For More Information: Complete Measure Submission; Meeting/Call Proceedings

 Description: Percentage of adult hospital discharges with procedure code of pancreatic resection with an in-hospital death, stratified by benign and malignant disease.

 Numerator Statement: Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.

 Denominator Statement: Hospital discharges, age 18 years and older, with ICD-9-CM pancreatic resection code procedure and a diagnosis code of pancreatic cancer in any field, stratified by benign and malignant disease.

 Exclusions: Exclude cases:

 • missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1 =missing)

• transferring to another short-term hospital (DISP=2)

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0365 Pancreatic resection mortality rate (IQI 9) (risk adjusted)

• MDC 14 (pregnancy, childbirth, and puerperium) ICD-9-CM codes: 577.0

Acute pancreatitis

Adjustment/Stratification: Risk adjustment method widely or commercially available The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) and covariates for gender, age in years (in 5-year age groups), All Patient Refined-Diagnosis Related Group (APR-DRG) and APR-DRG risk-of-mortality subclass. The reference population used in the model is the universe of discharges for states that participate in the HCUP State Inpatient Databases (SID) for the year 2007 (updated annually), a database consisting of 43 states and approximately 30 million adult discharges. The expected rate is computed as the sum of the predicted value for each case divided by the number of cases for the unit of analysis of interest (i.e., hospital, state, and region). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference population rate/User has the optin to stratify by gender, age (5-year age groups), race/ ethnicity, primary payer, and custom stratifiers./ Malignant Disease:

ICD-9-CM pancreatic cancer diagnosis codes:

1520

MALIGNANT NEOPL DUODENUM

1561

MAL NEO EXTRAHEPAT DUCTS

1562 MAL NEO AMPULLA OF VATER

1570

MAL NEO PANCREAS HEAD

1571

MAL NEO PANCREAS BODY 1572

MAL NEO PANCREAS TAIL

1573

MAL NEO PANCREATIC DUCT

1574

MAL NEO ISLET LANGERHANS 1578

MALIG NEO PANCREAS NEC

1579 MALIO NEO DA

MALIG NEO PANCREAS NOS Benign Disease:

All other cases

Level of Analysis: Facility/ Agency

Type of Measure: Outcome

Data Source: Electronic administrative data/ claims

Measure Steward: Agency for Healthcare Research and Quality | 540 Gaither Road | Rockville | Maryland | 20850

Steering Committee Recommendation for Endorsement: Pending final recommendation.

Rationale: The measure is based on strong evidence and evaluation criteria are met. With stratification that includes benign and malignant disease and both endovascular and open repair, its usefulness is enhanced.

If applicable, Conditions/Questions for Developer:

Overarching comment: Please provide feasibility of reporting mortality stratified by institutional volume (e.g., high, medium, low volume with parameters for each) rather than having rate and mortality separated.

- 1. De.2 Ensure measure description accurately captures measure focus.
- 2. <u>2a.8 Denominator Details</u>: Do not limit to pancreatic resection for cancer could stratify by malignant and benign. Also, consider providing volume as well as rate.
- 3. <u>2a.9 Denominator Exclusions</u>: Please remove 'transferring to another short-term hospital (DISP=2)' from the exclusions.
- 4. 2a.9 Denominator Exclusions: Add exclusion for pancreatitis.

Measures 0365 and 0366 should be fully harmonized in order to properly report as a pair. This will involve including all pancreatic disease in both the numerator and denominator of both measures. They can then be stratified by malignant and benign disease.

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0365 Pancreatic resection mortality rate (IQI 9) (risk adjusted)

Note: Discussion of Related and Competing measures may result in additional requests to developers specific to harmonization. **Developer Response:**

- 1. AHRQ agrees to revise the measure description to more accurately capture the measure focus
- 2. AHRQ agrees to harmonize the mortality and volume indicator denominators to include benign disease in the mortality measure. Note that the mortality and volume indicator (0366) are designated as paired measures
- 3. This request is problematic for a few reasons. First, the outcome of interest (in-hospital mortality) is not observed for these cases. Second, it is possible that a single case may be counted twice (once for the transferring hospital, once for the receiving hospital). Third, removing this exclusion would require using data that linked patients across hospitalizations (in order to avoid the issues #1 and #2), which is not readily available for individual hospitals across institutions. Therefore, we respectively defer a definitive response to this request pending the routine availability of linked hospitalization data, or at a minimum additional analysis using such data of the potential impact of removing the exclusion.
- 4. AHRQ agrees to add an exclusion for pancreatitis

Steering Committee Follow-up:

- 1. The Steering Committee expressed their concern about transferred patients being excluded from the measure. AHRQ responded that the number is less that 1 percent and the majority is transfer of convenience for the patient. The Steering Committee agreed that the response from the developer was adequate.
- 2. This was one of three related measures considered for potential harmonization. The three included: maintenance measure 0365: Pancreatic resection mortality rate (IQI 9); maintenance measure 0366: Pancreatic resection volume (IQI 2); and endorsed measure 0738: Survival predictor for pancreatic resection surgery. Discussion of the three measures is included here. The Steering Committee requested the measure developer continue its expedited work to combine measures 0365 and 0366, including benign disease. After some discussion, the Members agreed that because measures 0365 and 0366 are risk adjusted and measure 0738 is not, that recommendations related to harmonization of numerator and denominator should not be advanced at this time.

On the September 13 conference call, the Steering Committee reviewed Measures 0365 and 0366 which have been harmonized to reflect both benign and malignant disease. The developer stated that empirical literature has predominately focused on resections for cancer and there is a substantial difference in short term outcomes between high volume and low volume centers. They noted that the potential value of including benign disease as a separate stratum. The developer also indicated that they continue to work on combining the measures into a single measure. Progress to this end will be reviewed on a subsequent conference call.

1. Importance to Measure and Report:

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The evidence supports the measure's focus on pancreatic resections for cancer and while it is a low-volume procedure, mortality rates are high and merit tracking.

2. Scientific Acceptability of Measure Properties:

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: The measure was considered scientifically acceptable. The Committee discussed the importance of separate measures focusing on a pancreatic resection for cancer and a pancreatic resection for benign disease and determined that both could be captured in a single measure that is stratified to report each.

3. Usability:

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: This measure is in use in multiple states and healthcare systems and is reported on HCUPnet as well as used in the MONAHRQ system that is provided for public reporting and quality improvement.

4. Feasibility:

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)

Rationale: This measure was considered feasible; data is obtained from electronic claims and chart abstraction.

355

0366 Pancreatic resection volume (IQI 2)

For More Information: Complete Measure Submission; Meeting/Call Proceedings

Description: Number of adult hospital discharges with procedure for pancreatic resection, stratified by benign and malignant disease.

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Numerator Statement: Hospital discharges, age 18 years and older, with ICD-9-CM codes for pancreatic resection procedure, stratified
by benign and malignant disease.
Denominator Statement: Not applicable
Exclusions: Not applicable
Adjustment/Stratification: No risk adjustment necessary/.
Malignant Disease:
ICD-9-CM pancreatic cancer diagnosis codes:
1520
MALIGNANT NEOPL DUODENUM
1561
MAL NEO EXTRAHEPAT DUCTS
MAL NEO AMPULLA OF VATER
15/U MALINEO DANODEACIJEAD
MAL NEU PANUREAS HEAD
MALINEU PANUREAS DUDI 1579
1372 MALINEO DANICDEAS TAIL
1573
1574
MAL NEO ISI ET LANGERHANS
1578
MALIG NEO PANCREAS NEC
1579
MALIG NEO PANCREAS NOS
Benjan Disease:
All other cases
Level of Analysis: Facility/ Agency
Type of Measure: Structure/management
Data Source: Electronic administrative data/ claims
Measure Steward: Agency for Healthcare Research and Quality 540 Gaither Road Rockville Maryland 20850
Steering Committee Recommendation for Endorsement: Pending final recommendation.
Rationale: The measure was considered important and cited strong evidence. With reporting as a pair with 0365 and stratification that
includes benign and malignant disease and both endovascular and open repair, its usefulness is enhanced.
If applicable, Conditions/Questions for Developer:
 De.2 Ensure measure description accurately captures measure focus.
2a.3 Numerator Details: Partial resections and partial operations should be included in 0366,
<u>2a.8 Denominator Details</u>: Do not limit to pancreatic resection for cancer.
4. <u>2a.9 Denominator Exclusions</u> : Please remove 'transferring to another short-term hospital (DISP=2)' from the exclusions.
5. <u>2a.9 Denominator Exclusions</u> : Add exclusion for pancreatitis.
6. 2b.3 and 2.c.3 Testing Results: Text speaks to esophageal resection. Please provide correct information and advise if there
are other such errors within the submission that have required correction.
Measures 0365 and 0366 should be fully harmonized in order to properly report as a pair. This will involve including all pancreatic
disease in both the numerator and denominator of both measures. They can then be stratified by malignant and benigh disease.
Note: Discussion of Related and Competing measures may result in additional requests to developers specific to harmonization.
Leveloper Response:
Annu agrees to revise the measure description to more accurately capture the measure tocus
 A ITAL agrees to include partial resections and partial operations The volume measure contains no such evolution. However, in general AHDO agrees to harmonize the metality and volume.
indicator denominators to include benian disease in the mortality measure. Note that the mortality (0365) and volume indicator

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0366 P	ancreatic resection volume (IQI 2)
4.	The volume measure contains no such exclusion; however, see note above regarding harmonization
5.	The volume measure contains no such exclusion; however, see note above regarding harmonization
6.	Such erroneous references shall be corrected
Steerin	ig Committee Follow-up:
1.	The Steering Committee agreed that the response from the developer was adequate.
2.	This was one of three related measures considered for potential harmonization. The three included: maintenance measure 0365: Pancreatic resection mortality rate (IQI 9); maintenance measure 0366: Pancreatic resection volume (IQI 2); and endorsed measure 0738: Survival predictor for pancreatic resection surgery. Discussion of the three measures is included here. The Steering Committee requested the measure developer continue its expedited work to combine measures 0365 and 0366, including benign disease. After some discussion, the Members agreed that because measures 0365 and 0366 are risk adjusted and measure 0738 is not, that recommendations related to harmonization of numerator and denominator should not be advanced at this time.
On the reflect cancer potentia	September 13 conference call, the Steering Committee reviewed Measures 0365 and 0366 which have been harmonized to both benign and malignant disease. The developer stated that empirical literature has predominately focused on resections for and there is a substantial difference in short term outcomes between high volume and low volume centers. They noted that the al value of including benign disease as a separate stratum. The developer also indicated that they continue to work on combining asures into a single measure. Progress to this end will be reviewed on a subsequent conference call.
1 Imn	ortance to Measure and Report
(1a lm	nart: 1b. Performance dan: 1c. Outcome or Evidence)
Pation	pact, To: Tenominance gap, To: Outcome of Evidence)
impost	are. The evidence supports the measure's locus on pancieatic resections for cancel and while it is a low-volume procedure, the
impact	in terms of mortanty is important to track and report.
2. Scie	ntific Acceptability of Measure Properties:
(2a. Pr	ecise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f.
Meanir	gful differences; 2g. Comparability; 2h. Disparities)
Ration	ale: The measure was considered scientifically acceptable. The Committee discussed the importance of separate measures
focusin	g on a pancreatic resection for cancer and a pancreatic resection for benign disease and determined that both could be captured
in a sin	gle measure to be stratified to report each.
3. Usa	pility:
(3a, Me	aningful/useful for public reporting and quality improvement: 3b. Harmonized: 3c. Distinctive or additive value to existing
measu	res)
Ration	ale: This measure is in use in multiple states and healthcare systems and is reported on HCUPpet as well as used in the
ΜΟΝΑ	HRO system that is provided for public reporting and quality improvement
1 Eoo	sibility
(4a. Cli inaccui	nical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to acies/ unintended consequences identified 4e. Data collection strategy can be implemented)
Nation	
0357 A	bdominal aortic aneurysm (AAA) repair volume (IQI 4)
For Mo	re Information: Complete Measure Submission; Meeting/Call Proceedings
Descri Numer	ption: Count of adult hospital discharges in a one year time period with a procedure code of AAA repair. ator Statement: Discharges, age 18 years and older, with an abdominal aortic aneurysm (AAA) repair procedure and a primary
or seco	indary diagnosis of AAA.
Denon	inator Statement: Not applicable.
Exclus	ions: Not applicable.
Adjust vs. unr	ment/Stratification: no risk adjustment necessary/ The stratification of the denominator for open vs. endovascular and ruptured uptured involve the following codes in the denominator specification:
AAA R	epair (
ICD-9-	CM Procedure Codes:

OPEN;

'3834' = '1' /* AORTA RESECTION & ANAST *

'3844' = '1' /* RESECT ABDM AORTA W REPL */

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0357 Abdominal aortic aneurysm (AAA) repair volume (IQI 4)

'3864' = '1' /* EXCISION OF AORTA */

/* ENDOVASCULAR */; '3971' = '1' /* ENDO IMPL GRFT ABD AORTA */

/* Include Only: AAA */

/* ICD-9-CM Diagnosis Codes: */

/* RUPTURED */;

'4413 ' = '1' /* RUPT ABD AORTIC ANEURYSM */

/* UNRUPTURED */;

'4414 ' = '1' /* ABDOM AORTIC ANEURYSM */

Level of Analysis: Facility/ Agency

Type of Measure: Structure/management

Data Source: Electronic administrative data/ claims

Measure Steward: Agency for Healthcare Research and Quality | 540 Gaither Road | Rockville | Maryland | 20850

Steering Committee Recommendation for Endorsement: Conditional <u>No did not pass Importance to Measure and Report Y-10; N-11</u>. Pending final recommendation.

Rationale: The measure initially did not pass the importance criterion; however, the Committee asked for additional information. With that information, the Committee reconsidered the measure. Final action is pending receipt and consideration of a measure that combines 0357 and 0359.

If applicable, Conditions/Questions for Developer:

- 1. Overarching Comment: The Steering Committee vote regarding the NQF evaluation criterion of "Importance" was split with 10 voting yes and 11 voting no and a number of members noted the measure should only be reported with the related mortality measure. The developer will want to review the measure in its entirety in this light and provide whatever additional information/specification including value as a paired measure with mortality that it believes appropriate. Should specifications change, it is important to provide information regarding testing with the changes.
 - 2a. 11 Stratification Details/Variables: Measure should stratify the measure by endovascular and open repairs.

Note: Discussion of Related and Competing measures may result in additional requests to developers specific to harmonization. As discussed the developer should meet with SVS to harmonize or blend measures concerning AAA

Developer Response:

- 1. AHRQ agrees to stratify the measure by endovascular and open repairs, but notes that additional methodological development will be required to ensure the measures have adequate reliability.
- 2. AHRQ noted at the meeting that the volume and mortality measures are to be reported as paired measures though some users may not have the information to report both.

Steering Committee Follow-Up:

The Steering Committee was concerned about volume being reported as a singular measure.

- 1. The Steering Committee requested information regarding needed methodological changes for the measure based on the endovascular and open repair stratification and will further consider the measure with that information. AHRQ will also further clarify the risk adjustment model.
- 2. 2. The Steering Committee was concerned that the developer had not addressed creating a composite of the volume (0357) and morbidity measure (0359). Members noted that the developer had agreed to stratify the measure by endovascular and open repairs but that the measure did have reliability testing for the requested change. The Steering Committee asked for additional information about how the developer would redevelop their risk stratification model. On the August 3 conference call, the developer discussed the measure together with Measure 0359 and highlighted preliminary results of revising the measure with four strata. The developer is continuing to explore how the outcomes information can be put back together with volume for the requested composite/combined measures. The measure will move forward as a composite rather than as two measures.

On the September 13 conference call, the Steering Committee reviewed the developer's revisions to reflect four strata, ruptured or unruptured aneurysms repaired by open or endovascular approaches. These four components will be reported separately within this measure in addition to reporting overall measure performance. The developer also responded to questions about testing results and public reporting details to the satisfaction of the Committee.

1. Importance to Measure and Report: Y-10; N-11

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE NQF MEMBER comments due October 26, 2011 6:00 PM ET; PUBLIC comments due October 19, 2011 6:00 PM ET

0357 Abdominal aortic aneurysm (AAA) repair volume (IQI 4)

Rationale: The measure would provide key information to the public about AAA mortality, but does not provide separate information on EVARs and open repairs. The vote is reflective of the debate related to the value and implications of separately reporting open and endovascular repairs. AHRQ representatives indicated that the stratification is a component of the current software; however the Committee would like to see this specifically reflected in the specifications of the measure. AHRQ representatives indicated that a separate risk adjustment model could be developed for open and endovascular procedures with both ruptured and unruptured aneurysms. The majority of AAA repairs are done endovascularly and open repairs have become more complicated.

2. Scientific Acceptability of Measure Properties:

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale:

3. Usability:

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: 4. Feasibility:

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) Rationale:

357

0359 Abdominal aortic artery (AAA) repair mortality rate (IQI 11)

For More Information: Complete Measure Submission; Meeting/Call Proceedings

Description: Percent of adult hosptial discharges in a one-year time period with a procedure code of AAA repair and a diagnosis of AAA with an in-hospital death.

Numerator Statement: Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator. Denominator Statement: Discharges, age 18 years and older, with ICD-9-CM AAA repair code procedure and a diagnosis of AAA in any field. The denominator may be stratified by open vs. endovascular procedures, and ruptured vs. un-ruptured AAA. Exclusions: Exclude cases:

• missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1 =missing)

• transferring to another short-term hospital (DISP=2)

• MDC 14 (pregnancy, childbirth, and puerperium)

Adjustment/Stratification: risk adjustment method widely or commercially available The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) and covariates for gender, age in years (in 5-year age groups), All Patient Refined-Diagnosis Related Group (APR-DRG) and APR-DRG risk-of-mortality subclass. The reference population used in the model is the universe of discharges for states that participate in the HCUP State Inpatient Databases (SID) for the year 2008 (updated annually), a database consisting of 43 states and approximately 30 million adult discharges. The expected rate is computed as the sum of the predicted value for each case divided by the number of cases for the unit of analysis of interest (i.e., hospital). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference population rate.

Risk adjustment factors: sex

age 18-24; age 25-29; age 30-34; age 35-39; age 40-44; age 45-49; age 50-54; age 55-59; age 60-64; age 65-69; age 70-74; age 75-79; age 80-84; age 85+

ADRG 1731 (other vascular procedures-minor)

ADRG 1732 (other vascular procedures-moderate)

ADRG 1733 (other vascular procedures-major)

ADRG 1734 (other vascular procedures-extreme)

ADRG 1691 (major thoracic and abdominal vascular procedures-minor)

ADRG 1692 (major thoracic and abdominal vascular procedures-moderate)

ADRG 1693 (major thoracic and abdominal vascular procedures-major)

ADRG 1694 (major thoracic and abdominal vascular procedures-extreme

MDC 5 (Cardiovascular) Transfer-in status

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE

0359 Abdominal aort	ic artery (AAA) repair mo	rtality rate (IQI 11)			
Gender, age (5-year a	ge groups), race/ ethnicity,	primary payer, cust	om		
The stratification of the	e denominator for open vs.	endovascular and ru	uptured vs. unruptured ir	nvolves the following code	s in the
denominator specification	tion:				
AA Repair					
CD-9-CM Procedure	Codes:				
DPEN					
3834´ = ´1´ /* AORTA	RESECTION & ANAST */				
3844' = '1' /* RESEC	T ABDM AORTA W REPL	*/			
3864' = '1' /* FXCISI	ON OF AORTA */	1			
3971' = '1' /* ENDO I	MPL CRET ARD AORTA *	1			
$\Delta\Delta$		I			
MA CD 0 CM Diagnosis (`odos:				
DD-9-CIVI DIAGHOSIS (JUUES.				
		. */			
1413 = 1 /" RUPL	ABD AORTIC ANEURYSIN	l "/			
NRUPTURED					
1414 ´ = ´1´ /* ABDOI	AORTIC ANEURYSM */				
evel of Analysis: F	acility/ Agency				
ype of Measure: Ou	tcome				
ata Source: Electro	nic administrative data/ cla	ims			
leasure Steward: Ag	jency for Healthcare Resea	arch and Quality 54	0 Gaither Road Rockvi	lle Maryland 20850	
Steering Committee	Recommendation for Enc	lorsement: Pending	final recommendation.		
ationale: The measu	ure initially did not pass the	importance criterior	; however, the Steering	Committee engaged in ex	tensive
iscussion of the volur	ne and mortality measures	as noted in review of	of 0357 above. The Con	nmittee asked for additiona	al information and
vith that information, r	econsidered the measure.	Final action is pend	ding receipt and conside	ration of a measure that c	ombines 0357
nd 0359.		•	0 1		
applicable. Conditi	ons/Questions for Develo	oper:			
1 2a 11 Stratif	ication Details/Variables: a) Stratify the measur	e by endovascular and o	open repairs as well as err	ergency vs
elective repa	air: b) specify the risk stratif	ication model used:	3) identify settings where	e the model has been vali	dated in addition
to the trainin	in, b) opeoily the hold strain in data set in which it was c	leveloped or provide	other supporting data a	e to ite validity	
2 2h 3 Teetin	n Deculte: Diesee provide i	formation about sig	nal to noise ratio	is to its validity.	
2. <u>20.0 Testin</u> loto: Discussion of P	<u>J Results</u> . Flease provide in related and Composing more	niorriation about sig	additional requests to de	volonors specific to harm	onization Ac
iole. Discussion of R	erated and competing med	sules may lesult in	duullional requests to de	^ ^ ^	JIIZAUUII. AS
iscussea, the develop	ber should meet with SVS t	o narmonize or bien	a measures concerning	AAA.	
eveloper Response					
1. a) As noted	above, AHRQ agrees to st	ratify the measure by	y endovascular and oper	n repairs; in addition, AHR	Q agrees to
stratify by ru	ptured vs. un-ruptured ane	eurysm (which is what	at we assume you mean	by emergency vs. elective	; repair); but
AHRQ agair	notes that additional meth	nodological developr	nent will be required to e	ensure the measures have	adequate
reliability; b)	the risk stratification mode	I is specified below;	c) the model has been w	alidated on the State Inpa	itient Databases
(SID), which	consists of hospital discha	arge data from 40 sta	ates (constituting about 9	90% of hospital discharges	in the U.S) for
the years 20)01-2008				
2. The signal to	o noise ratio is the ratio of t	he between hospital	l variance (signal) to the	within hospital variance (r	ioise). The
formula is si	gnal / (signal + noise). The	e ratio itself is only a	diagnostic for the degre	e of variance in the risk-ad	diusted rate
systematica	Iv associated with the prov	vider. Therefore. wh	at matters is the magnitu	ude of the variance in the "	smoothed" rate
(that is the	variance in the risk-adjuste	d rate after the appli	cation of the univariate s	shrinkage estimator based	on the signal
ratio) What	the data demonstrate is s	vstematic variation in	the provider level rate (of 2.6 to 7.6 per 100 from	the 5 th to 95 th
nercentile at	fter a signal ratio of 0 307 i	s applied as the shri	nkage estimator (that is	after accounting for variat	ion due to
random foot	<u></u> a signal ratio of 0.007 k ore)			and accounting for variat	
ahle 3 Rick Adjuct	nent Coefficients for IOI f	±11_ ΔΔΔ Renair I	Mortality		
asie of Mar Aujusti					
Parameter	Label	Estimate	Standard	Wald Chi-	Pr > Chi-
			Error	Square	Square
Intercept		-6.6044	0.1713	1486.04	0.0000

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0359 Abdominal aor	tic artery (AAA) rep	pair mortality rate (IQI 11)			
Sex	Female	0.4539	0.0747	36.95	0.0000
Age	65 to 74	0.4879	0.1072	20.72	0.0000
Age	75 to 79	0.8737	0.1201	52.97	0.0000
Age	80 to 84	1.1092	0.1200	85.50	0.0000
Age	85+ '1691' to	1.4440	0.1359	112.97	0.0000
APR-DRG	'1692' '1693' to	1.6789	0.1623	107.05	0.0000
APR-DRG	'1694' '1733' to	3.9127	0.1523	659.72	0.0000
APR-DRG	'1734'	3.1568	0.1676	354.55	0.0000
MDC	5	2.6400	0.1483	316.85	0.0000
MDC RUPTURE	Other	2.9536	0.2252	172.05	0.0000
D		2.0565	0.0808	647.42	0.0000

c-statistic 0.937

Note: The APR-DRG consists of the DRG and the risk-of-mortality subclass (minor (1), moderate (2), major (3) and extreme (4)). **Steering Committee Follow-Up:**

1. The Steering Committee requested information regarding needed methodological changes for the measure based on the endovascular and open repair stratification and will further review the measure with that information. AHRQ will also further clarify the risk adjustment model.

2. The Steering Committee was concerned that the developer had not addressed creating a composite of the volume (0357) and morbidity measure (0359). It noted that the developer had agreed to stratify the measure by endovascular and open repairs but that the measure did not have any reliability testing for the requested change. The Steering Committee asked for additional information about how the developer would redevelop their risk stratification model. On the August 3 conference call, the developer highlighted preliminary results about the measure's stratification. A Steering Committee member questioned whether the measure was useful for endovascular un-ruptured repairs, if the difference between the best performing hospitals was 0.00 percent and worst performing hospitals was 0.75 percent repairs, which was considered minimal. Additionally, it was noted that open ruptured repairs also showed little difference between the best performing hospitals at 24.74 percent and the worst performing hospitals at 26.53 percent. The Steering Committee resolved that while some of the collected data may show small differences, the measure would also show areas of variation. The developer further explained that they could use the data to identify hospitals that performed at better or worse than average but for other subsets.

On the August 3 conference call, the developer highlighted preliminary results of revising the measure with four strata – ruptured vs. unruptured; and open vs. endovascular repair using available data from a period of years using data from 1700 hospitals, of which 500 do endovascular repair of ruptured aneurysms. Based on the preliminary data of that stratification, a number of issues were discussed including whether the measure was useful for endovascular un-ruptured repairs, given minimal differences between the best performing hospitals (0.00 percent) and worst performing hospitals (0.75 percent); small differences in open ruptured repairs between hospitals that performed better than expected (24.74 percent) and those that performed worse than expected (26.53 percent); risk stratification approaches using inpatient diagnoses vs. clinical data or outpatient diagnoses. The Steering Committee opined that while some of the collected data may show small differences, the breakdown can show areas of variation that warrant measurement and follow up. The developer is continuing to explore how the outcomes information can be put back together with volume for the requested composite/combined measures.

On the September 13 conference call, the Steering Committee reviewed the developer's revisions to reflect four strata, ruptured or unruptured aneurysms repaired by open or endovascular approaches. These four components will be reported separately within this measure in addition to reporting overall measure performance. The developer also responded to questions about testing results and public reporting details to the satisfaction of the Committee.

1. Importance to Measure and Report: <u>Y-10; N-11; A-1</u> (*1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence*)

0359 Abdominal aortic artery (AAA) repair mortality rate (IQI 11)

Rationale: The measure would provide key information to the public about AAA volume, but does not provide separate information on EVARs and open repairs. The majority of AAA repairs are done endovascularly and open repairs have become more complicated.

2. Scientific Acceptability of Measure Properties:

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale:

3. Usability:

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale:

4. Feasibility:

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) Rationale:

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1523 In-hospital mortality following elective open repair of small AAAs

For More Information: Complete Measure Submission; Meeting/Call Proceedings
Description: Percentage of aymptomatic patients undergoing open repair of small abdominal aortic aneurysms (AAA)who die while in

hospital. This measure is proposed for both hospitals and individual providers.

Numerator Statement: Mortality following elective open repair of asymptomatic AAAs in men with < 6 cm dia and women with < 5.5 cm dia AAAs

Denominator Statement: All elective open repairs of asymptomatic AAAs in men with < 6 cm dia and women with < 5.5 cm dia AAAs **Exclusions:** > 6 cm minor diameter - men

> 5.5 cm minor diameter - women

Symptomatic AAAs that required urgent/emergent (non-elective) repair

Adjustment/Stratification: No risk adjustment necessary/No stratification is required for this measure.

Level of Analysis: Clinicians: Group, Clinicians: Individual, Facility/ Agency

Type of Measure: Outcome

Data Source: Registry data

Measure Steward: Society for Vascular Surgery | 633 N. St. Clair, 24th floor | Chicago | Illinois | 60611

Steering Committee Recommendation for Endorsement: Conditional Y-9; N-11; A-1 Pending final recommendation.

Rationale: The evidence supports the measure's focus on small AAAs repairs and it provides important outcome data; however, the Committee had a number of questions for which it requested developer response before further consideration of the measure.

If applicable, Conditions/Questions for Developer:

Overall comment: Based on the narrow margin of the Steering Committee vote related to having met criteria for endorsement the measure will be reconsidered with the response to the questions and conditions below.

- 1. <u>De2. Brief Description and 2a.1 Numerator Statement</u>: Suggested addition of 30-day mortality with in-hospital mortality. Also, please clarify whether aneurysm size can be collected using administrative (i.e., is widely available outside the Northern New England registry), or available clinical data and the added burden of such collection.
- 2. <u>2a. Measure Specifications</u>: Provide a timeframe for availability of newly created CPT2 codes to make this a universally applicable measure.
- <u>2a.3 Numerator Details</u>: Reword the numerator details here and throughout where registry is specified to be clear that a specific registry (i.e., SVS, VSGNE) is not required to collect the data.
- 4. <u>2b Reliability Testing and 2c Validity Testing</u>: Advise what testing will be needed and completed for the suggested modification to 30 day mortality?
- 5. <u>2d. Exclusions</u>: Provide reconcile sample size and data for what is being measured. Also reconcile aneurysm size in the population of interest and the sizes specified throughout.
- 6. <u>2h. Disparities in Care</u>: Provide information about disparities or plans to be able to provide data.
- 7. <u>3a.2 Use in a Public Reporting Initiative</u>: Please provide plans for public reporting (within 3 years).

Note: Discussion of Related and Competing measures may result in additional requests to developers specific to harmonization **Developer Response**:

1. We suggest in-hospital instead of 30-day mortality for several reasons. We have previously studied mortality within the first

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1523 In-hospital mortality following elective open repair of small AAAs

year after open AAA repair. In-hospital mortality was 2.1% and 30-day mortality was 2.3% in VSGNE, since almost every patient who died within 30 days was never discharged. [Predicting 1-year mortality after elective abdominal aortic aneurysm repair. Beck et al, J Vasc Surg. 2009.49:838-44]. Further, in-hospital mortality is more easily obtained and audited, and is immediately available at the time of discharge. Finally, there is lower cost for obtaining in-hospital mortality a more appropriate measure and have not changed this portion of the application. AAA size is readily available in the medical record, and is tracked not only in VSGNE, but the SVS VQI registry, which now comprises more than 80 centers in 30 states across the U. S., and is expected to comprise all states by 2012. The SVS VQI is the de facto national registry for vascular surgeons in the U.S. will be participating in SVS VQI by 2012.

- It is our plan to request CPT2 codes to allow coding of AAA diameter by claims data. These codes will be reviewed by the CPT Performance Measures Advisory Group's next meeting, which is scheduled for July 18-19, 2011. The CPT Editorial Panel will then have to approve the codes before they can appear in any CPT publication. The Editorial Panel will meet October 13-15, 2011.
- 3. Numerator and denominator have been edited to clearly state than ANY registry tracking the appropriate variables can be used for reporting all of the current measures being proposed by SVS.
- 4. As stated above, we have already compared in-hospital and 30-day mortality in 748 patients undergoing open elective AAA repair in VSGNE and found no advantage to using 30-day mortality, which is more difficult and more expensive to collect.
- 5. This section has been expanded. Data are provided for large and small AAAs, showing difference in operative mortality, emphasizing the reason for including only SMALL dia AAAs in this measure. Patients with larger diameter AAAs cannot be included without complex risk adjusting that is not available. However, data indicate that MANY small AAAs are being electively repaired, and it is in this population that a quality measure is needed. Most patients with much larger AAAs always warrant treatment, since the AAA rupture risk is so high if not treated.
- 6. Disparities have not been reported. As additional data are acquired from the SVS registry across a much larger and varied population, future disparities may be discovered.
- 7. SVS intends to request that all of these measures be included in PQRS, and expects CMS to begin publishing PQRS data in the near future. Independent of this, SVS plans to request permission from participating providers and hospitals to publish these measures on the SVS public website.

Steering Committee Follow-up:

The Steering Committee expressed concern about the documentation and tracking of aneurysm size outside of the SVS registry though it was believed that this could be captured based on chart notes. The Steering Committee will have a follow-up call to review this measure as part of the AAA Repair related and competing measures once a composite has been created for measures 0357 and 0359.

1. Importance to Measure and Report: Y-18; N-3; A-0

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The measure provides important outcome data. More AAA repairs are being conducted; although, they may not be medically necessary. However, the data provided in the measure included both small and large aneurysms, despite the stated measure's focus on only small AAAs. High mortality levels may encourage a process review.

2. Scientific Acceptability of Measure Properties: C-2; P-16; M-2; A-1

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: The Committee described the importance of extending the measure to 30-day mortality to identify adverse outcomes. The Committee stated the numerator time window, while verbally explained satisfactorily, could be confusing to users. Testing was questioned; while the measure focused on small aneurysms, testing was conducted on large aneurysms.

3. Usability: <u>C-4; P-11; M-4; A-2</u>

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The measure has potential value for accountability and improvements; however, need for improved specifications and testing with required data requires additional work.

4. Feasibility: C-4; P-10; M-3; A-4

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)

Rationale: The registry group from which data for this measure is drawn is 10 hospitals; thus, information about feasibility is limited both in terms of the number of facilities in which tested and testing with only registry data. At present there is no mechanism for identifying

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1523 In-hospital mortality following elective open repair of small AAAs

small aneurysms with administrative data. The developer is working to develop CPT II codes that would allow aneurysm size to be captured and reported with administrative data. This would require new/additional specifications for the measure. It was noted that the measure could be revised and limited to mortality unrelated to aneurysm size that could be collected using administrative data; this would require further modification of the measure.

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1534 In-hospital mortality following elective EVAR of small AAAs

For More Information: Complete Measure Submission; Meeting/Call Proceedings

Description: Percentage of patients undergoing elective endovascular repair of small asymptomatic abdominal aortic aneurysms (AAA) who die while in hospital. This measure is proposed for both hospitals and individual providers.

Numerator Statement: Mortality following elective endovascular AAA repair of asymptomatic AAAs in men with < 6 cm dia and women with < 5.5 cm dia AAAs

Denominator Statement: All elective endovascular repairs of asymptomatic AAAs in men with < 6 cm dia and women with < 5.5 cm dia AAAs

Exclusions:

> 6 cm diameter - men

> 5.5 cm diameter – women

Symptomatic AAAs that required urgent/emergent (non-elective) repair

Adjustment/Stratification: No risk adjustment necessary/No stratification is required for this measure.

Level of Analysis: Clinicians: Group, Clinicians: Individual, Facility/ Agency

Type of Measure: Outcome

Data Source: Registry data

Measure Steward: Society for Vascular Surgery | 633 N. St. Clair, 22nd Floor | Chicago | Illinois, 60611

Steering Committee Recommendation for Endorsement: Conditional Y-9; N-12; A-0 Pending final recommendation.

Rationale: The evidence supports the measure's focus on small AAAs repairs and it provides important outcome data; however, the Committee has a number of guestions for which it requested developer response before further consideration of the measure.

If applicable, Conditions/Questions for Developer:

Based on the narrow margin of the Steering Committee vote related to having met criteria for endorsement, the committee will reconsider the measure with the response to the questions and conditions below.

- 1. <u>De2. Brief Description and 2a.1 Numerator Statement</u>: Suggested modification- addition of 30-day mortality with in-hospital mortality. Also, please clarify whether aneurysm size can be collected using administrative (i.e., is widely available outside the Northern New England registry), or available clinical data and the added burden of such collection.
- 2. <u>2a Measure Specifications</u>: Scope of the measure as specified will have limited impact. Please reevaluate.
- 3. <u>2b Reliability Testing and 2c Validity Testing</u>: Identify the testing that will need to be completed for the suggested modifications?
- 4. <u>2d. Exclusions</u>: Provide reconcile sample size and data for what is being measured. Also reconcile aneurysm size in the population of interest and the sizes specified throughout.
- 5. <u>2h</u>. Disparities in Care: Providing information about disparities or plans to be able to provide same.

6. <u>3a.</u>2 Use in a public reporting initiative: Please provide plans for public reporting (within 3 years).

Developer Response:

- 1. We suggest in-hospital instead of 30-day mortality for several reasons. We have previously studied mortality within the first year after elective endovascular AAA repair. In-hospital mortality was 0.48% and 30-day mortality was 0.50% in VSGNE, since almost every patient who died within 30 days was never discharged. [Predicting 1-year mortality after elective abdominal aortic aneurysm repair. Beck et al, J Vasc Surg. 2009.49:838-44]. Further, in-hospital mortality is more easily obtained and audited, and is immediately available at the time of discharge. Finally, there is lower cost for obtaining in-hospital mortality a more appropriate measure and have not changed this portion of the application. AAA size is readily available in the medical record, and is tracked not only in VSGNE, but the SVS VQI registry, which now comprises more than 80 centers in 30 states across the U. S., and is expected to comprise all states by 2012. The SVS VQI is the de facto national registry for vascular surgery. While AAA size cannot currently be collected using administrative data, we expect that the great majority of vascular surgeons in the U.S. will be participating in SVS VQI by 2012.
- 2. We are not certain as to the exact specification within 2a to which this comment is applied. However, we disagree that this measure will have limited impact. Most AAAs are small when detected, and there is a general suspicion that too many small

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1534 In-hospital mortality following elective EVAR of small AAAs

AAAs are being repaired unnecessarily, with a resulting unnecessary operative mortality. This measure will focus attention on the elective mortality rate of endovascular AAA repair in these patients. Although the median mortality rate is low in VSGNE, there is significant variation among hospitals, and large clinical trials have documented this mortality to be 2-3%, even for small AAAs. If 10,000 patients per year in the US undergo unnecessary endovascular repair of such small AAAs, a 3% mortality results in 300 avoidable deaths. This is an important quality measure, and needs to be established in parallel with our open AAA repair measure, so that surgeons performing AAA repair can/must report their outcomes independent of which technique they use. We have not changed the measure form, because it was not clear where to insert this information.

- 3. As stated above, we have already compared in-hospital and 30-day mortality in 639 patients undergoing elective endovascular AAA repair in VSGNE and found no advantage to using 30-day mortality, which is more difficult and more expensive to collect.
- 4. This section has been expanded. Data are provided for large and small AAAs, showing difference in operative mortality, emphasizing the reason for including only SMALL dia AAAs in this measure. Patients with larger diameter AAAs cannot be included without complex risk adjusting that is not available. However, data indicate that MANY small AAAs are being electively repaired, and it is in this population that a quality measure is needed. Most patients with much larger AAAs always warrant treatment, since the AAA rupture risk is so high if not treated.
- 5. Disparities have not been reported. As additional data are acquired from the SVS registry across a much larger and varied population, future disparities may be discovered.
- SVS intends to request that all of these measures be included in PQRS, and expects CMS to begin publishing PQRS data in the near future. Independent of this, SVS plans to request permission from participating providers and hospitals to publish these measures on the SVS public website.

Steering Committee Follow-up:

The Steering Committee expressed concern about the documentation and tracking of aneurysm size outside of the SVS registry. The Steering Committee will have a follow-up call to review this measure as part of the AAA Repair related and competing measures once a composite has been created for measures 0357 and 0359.

1. Importance to Measure and Report: Y-21; N-0

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The measure provides important outcome data. More AAA repairs are being conducted; although, they may not be medically necessary. However, the data provided in the measure included both small and large aneurysms, despite the measure's focus on only small AAAs. High mortality levels may encourage a process review.

2. Scientific Acceptability of Measure Properties: C-5; P-13; M-3; N-0

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale: The Committee discussed the importance of extending the measure to 30-day mortality to identify adverse outcomes. The Committee stated that the time window may be confusing.

3. Usability: <u>C-3; P-15; M-2; N-1</u>

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: In the future the measure could be adjusted to be applicable for other procedures.

4. Feasibility: <u>C-5; P-10; M-5; N-1</u>

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)

Rationale: The measure did not provide wide spread testing data and may not be feasible without the registry. The developer is attempting to create CPT II codes to facilitate use beyond the registry in the future.

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0128 Duration of antibiotic prophylaxis for cardiac surgery patients

For More Information: Complete Measure Submission; Meeting/Call Proceedings

Description: Percent of patients aged 18 years and older undergoing cardiac surgery whose prophylactic antibiotics were discontinued within 48 hours after surgery end time

Numerator Statement: Number of patients undergoing cardiac surgery whose prophylactic antibiotics were discontinued within 48 hours after surgery end time

Denominator Statement: Number of patients undergoing cardiac surgery

Exclusions: Exclusions:

-Patients who had a principal diagnosis suggestive of preoperative infectious diseases

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE

Patients whose ICD-9-CM principal procedure was performed entirely by Laparoscope Patients enrolled in clinical trials Patients who expired perioperatively Patients who were receiving antibiotics more than 24 hours prior to surgery Patients who were receiving antibiotics more than 24 hours prior to surgery Patients who were receiving antibiotics more than 24 hours prior to surgery Patients who hours to extend antibiotics Patients who hours to extend antibiotics Patients who hours to extend antibiotics Patients who hours to extend antibiotics This list will be provided in the STS Adult Cardiac Surgery Database Data Manager's Training Manual as acceptable exclusions. Adjustment/Stratification: no risk adjustment necessary/No stratification is required for this measure. Level of Analysis: Clinicians: Group, Facility/ Agency, Population: Counties or cities, Population: National, Population: Regional/ network, Population: States Type of Measure: Process Data Source: Registry dat Measure Steward: Society of Thoracic Surgeons J 633 North Saint Clair Street, Suite 2320 Chicago Illinois 60611 Stering Committee Foolmwup: This was one of four related measures considered important due to the potential for prolonged antibiotic use and the percent of antimicrobial Insistance. Stering Committee Follow-up: This was one of four related measures considered for potential harmonization. The four included: maintenance measure 0529: Prophydicic antibiotics (scridiac proedures); maintenance measure 0128. Duration of antibiotic prochytaxis for cardiac surgery patients; and endorsed measures 0271: Discontinuation of prophydacics and there or data day hours be examined in terms of whether there are cardiac surgeries for which the different end times are specifically indicated and if so that they be specified for capture with the relevant measures. Aso, members asked that the laparoscopy exclusion be envored from Measure 0128. For those measures not within the current project (AMA-PCPI measures) 6637 and 0271), NQF staf will relay	0128 Duration of antibiotic prophylaxis for cardiac surgery patients
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Rationale: The Committee debated the time period for antibiotic discontinuation reviewing the merits of 48 hours versus 24 hours. 3. Usability: C-13; P-6; M-0; N-0 (3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures) Rationale: The measure will be reported as part of a composite in the future. 4. Feasibility: C-11; P-8; M-0; N-0 (4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) Rationale: The measure presented minimal evidence of costs.	Meaningful differences; 2g. Comparability; 2h. Disparities)
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measures) Rationale: The measure will be reported as part of a composite in the future. 4. Feasibility: C-11; P-8; M-0; N-0 (4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) Rationale: The measure presented minimal evidence of costs.	(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing
Rationale: The measure will be reported as part of a composite in the future. 4. Feasibility: C-11; P-8; M-0; N-0 (4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) Rationale: The measure presented minimal evidence of costs.	measures)
 4. Feasibility: <u>C-11; P-8; M-0; N-0</u> (4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) Rationale: The measure presented minimal evidence of costs. 	Rationale: The measure will be reported as part of a composite in the future.
(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) Rationale: The measure presented minimal evidence of costs.	4. Feasibility: <u>C-11; P-8; M-0; N-0</u>
inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) Rationale: The measure presented minimal evidence of costs.	(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to
Rationale: The measure presented minimal evidence of costs.	inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)
	Rationale: The measure presented minimal evidence of costs.

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0529 Prophylactic antibiotics discontinued within 24 hours after surgery end time

For More Information: Complete Measure Submission; Meeting/Call Proceedings

Description: Surgical patients whose prophylactic antibiotics were discontinued within 24 hours after Anesthesia End Time (48 hours for CABG or Other Cardiac Surgery). The Society of Thoracic Surgeons (STS) Practice Guideline for Antibiotic Prophylaxis in Cardiac Surgery (2006) indicates that there is no reason to extend antibiotics beyond 48 hours for cardiac surgery and very explicitly states that

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0529 Prophylactic antibiotics discontinued within 24 hours after surgery end time
antibiotics should not be extended beyond 48 hours even with tubes and drains in place for cardiac surgery.
Numerator Statement: Number of surgical patients whose prophylactic antibiotics were discontinued within 24 hours after Anesthesia
End Time (48 hours for CABG or Other Cardiac Surgery).
Denominator Statement: All selected surgical patients with no evidence of prior infection. Included Populations:
An ICD-9-CM Principal Procedure Code of selected surgeries (as defined in Appendix A, Table 5.10 for ICD-9-CM codes) AND
An ICD-9-CM Principal Procedure Code of selected surgeries (as defined in Appendix A, Table 5.01-5.08 for ICD-9-CM codes)
Exclusions: Excluded Populations:
Patients less than 18 years of age
Patients who have a length of Stay greater than 120 days
Patients who had a principal diagnosis suggestive of preoperative infectious diseases (as defined in Appendix A Table 5.09 for ICD-9-
CM codee)
Patients whose ICD-Q-CM principal procedure was performed entirely by Lanaroscope
Patients whose role-s-ow principal procedure was performed entirely by Laparoscope
Patients enrolled in clinical trials Patients where ICD 0, CM principal precedure occurred prior to the date of admission
Patients whose ICD-3-Civi principal procedure occurred prior to the date of dumission Detients with physician (advanced practice purce/physician accident (physician (ADN/DA)) desumented infection prior to surgical
procedure of interest
Patients who expired perioperatively
Patients who had other procedures requiring general or spinal anesthesia that occurred within three days (four days for CABG or Other
Cardiac Surgery) prior to or after the procedure of interest (during separate surgical episodes) during this hospital stay
Patients who were receiving antibiotics more than 24 hours prior to surgery (except colon surgery patients taking oral prophylactic
antibiotics)
Patients who were receiving antibiotics within 24 hours prior to arrival (except colon surgery patients taking oral prophylactic antibiotics)
Patients who did not receive any antibiotics during this hospitalization.
Patients who received urinary antiseptics only (as defined in Appendix C, Table 3.11)
Patients with Reasons to Extend Antibiotics.
Adjustment/Stratification: no risk adjustment necessary/The antibiotic prophylaxis measures are stratified according to surgery type.
The tables are subsets of Table 5.10 (see link for Specification Manual and Appendix A, Tables 5.01 to 5.08. The specific procedures
must be in the large table (Table 5.10) to be eligible for the SCIP measures. The measure specific tables for SCIP-Inf-3 are 5.01 to 5.08
Level of Analysis: Facility/ Agency, Population: National, Can be measured at all levels, Program: QIO
Type of Measure: Process
Data Source: Electorinc administrative data/ claims; Electronic Health/ Medical Record; Paper medical record/ flow-sheet
Most facilities use vendors to collect the data electronically. CMS provides a free, downloadable tool called CART. A paper tool modeled
after the data collected electronically is provided as an attachment. CART downloads can be found on QualityNet.org at
http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier2&cid=1138900279093
Measure Steward: Centers for Medicare & Medicaid Services 7500 Security Boulevard , Mail Stop S3-01-02 Baltimore Maryland
21244-1850
Steering Committee Recommendation for Endorsement: Conditional Y-19; N-0; A-0 Pending final recommendation.
Rationale: The measure is important and provides an appropriate timeline for discontinuing antibiotic therapy promoting appropriate use
of antibiotics.
Steering Committee Comments:
This was one of four related measures considered for potential harmonization. The four included: maintenance measure 0529:
Prophylactic antibiotics discontinued within 24 hours after surgery end time; endorsed measure 0637: Discontinuation of prophylactic
antibiotics (cardiac procedures); maintenance measure 0128: Duration of antibiotic prophylaxis for cardiac surgery patients; and
endorsed measure 0271: Discontinuation of prophylactics antibiotics (non-cardiac procedures). Discussion of the four measures is
included here. The Steering Committee determined there were no competing measures in the group. Members requested that the
developers evaluate the extent to which harmonization of the four measures could be accomplished. They asked that initial focus be on
refining the exclusions to ensure they capture the same information and that end times of 24 and 48 hours be examined in terms of
whether there are cardiac surgeries for which the different end times are specifically indicated and if so that they be specified for capture
within the relevant measures. Also, members asked that the laparoscopy exclusion be removed from Measure 0128. For those
measures not within the current project (AMA-PCPI measures 0637 and 0271). NQF staff will relav the requests of the Committee for
their consideration as they update and test the measures.
1. Importance to Measure and Report: Y-19; N-0
(1a. Impact: 1b. Performance gap: 1c. Outcome or Evidence)

0529 Prophylactic antibiotics discontinued within 24 hours after surgery end time
Rationale: The measure has a small performance gap but includes evidence that disparities among subpopulations demonstrate
performance below 90 percent.
2. Scientific Acceptability of Measure Properties: C-14; P-4; M-1; N-0
(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f.
Meaningful differences; 2g. Comparability; 2h. Disparities)
Rationale: The Committee discussed single dose prophylaxis compared with 24 hour prophylaxis and no post-operative prophylaxis
noting the timeframe of this measure is standard at present. They also discussed requesting the measure's 24 hour timeframe to be
changed to shorten duration when the evidence supports. The laparoscopic exclusion is removed effective January 1, 2012.
3. Usability: <u>C-18; P-1; M-0; N-0</u>
(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing
measures)
Rationale: The measure is currently in use and is part of the Surgical Care Improvement Project (SCIP) measure set.
4. Feasibility: <u>C-16; P-3; M-0; N-0</u>
(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to
inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)
Rationale: The measure relies on administrative claims data.

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363 Candidate Consensus Standards Not Recommended for Endorsement

364	The following candidate consensus standards were not recommended for endorsement: four did not meet
365	the importance to measure and report criterion, and two did not meet all criteria for endorsement.
366	Additionally, two measures, cataract measure 1549and prophylactic antibiotic measure 0125 were
367	withdrawn by the measure developers.
368	
369	The evaluation summary tables follow the list of measures and summarize the results of the Steering
370	Committee's evaluation of and voting on the candidate consensus standards that were not recommended
371	for endorsement. Hyperlinks are provided:
372	• from each listed measure to the evaluation summary table;
373	• from each summary table to the web page where all materials submitted by the developer or
374	steward are posted; and
375	• from each summary table to the web page where the meeting and call summaries, transcripts, and
376	recordings can be assessed.
377 378 379 380 381 382	Cardiac, Appendectomy and Pancreatic Resection 1480 Patient(s) 18 years of age and older on a beta-blocker at admission or within seven days of discharge of an isolated CABG procedure
383 384	1548 Surveillance after endovascular abdominal aortic aneurysm repair (EVAR)
385	1551 Follow up assessment of shoke of death after carotic revascularization

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	a wound Deniscence
036/ Post operative wound	d dehiscence (PDI 11)
0368 Post operative wound	d dehiscence (PSI 14)
Evaluation Summary–	-Candidate Consensus Standards Not Recommended for Endorsement
1480 Patient(s) 18 years of ag CABG procedure.	e and older on a beta-blocker at admission or within seven days of discharge of an isolated
For More Information: Comple	te Measure Submission; Meeting/Call Proceedings
Description: Patient(s) 18 years	s of age and older hospitalized for an isolated CABG procedure taking a beta-blocker at admission
Within seven days of discharge.	(a) when are taking a Data blocker at CADC admission data ar within seven days of discharge
Numerator Statement: Patient	(s) who are taking a Beta-blocker at CABG admission date or within seven days of discharge.
Exclusions: 1 Exclude patient	ne nospitalized for an isolated CADO procedure
discharge	is who were readmitted to an acute of non-acute care facility for any diagnosis within seven days a
2 Exclude the event if the natie	ent died during the admission
3 Exclude the patient if the patient	ient did not have pharmacy benefits throughout the CABG event
4. Exclude patients who had a c	contraindication to Beta-blockers or were taking Beta-blocker exclusion medications
Adjustment/Stratification: no	risk adjustment necessary/No stratification is required for this measure.
Level of Analysis: Can be mea	asured, Clinicians: Group, Clinicians: Individual, Facility/ Agency, Health Plan, Integrated Delivery
System, Multi-site/ corporate cha	ain, Population: Counties or cities, Population : States, Program: Disease management, Program:
Type of Measure: Process	
Data Source: Electronic admin	istrative data/ claims, Pharmacy data
Measure Steward: Ingenix 12	125 Technology Drive Eden Prairie Minnesota 55344
Steering Committee Recommo Rationale: Did not pass the three	endation for Endorsement: <u>No</u> eshold criterion of Importance to Measure and Report; thus, remaining criteria were not assessed.
If applicable, Conditions/Ques	stions for Developer:
Developer Response:	
If applicable, Questions to the	e Steering Committee:
1. Importance to Measure and	I Report: <u>Y-6; N-15</u>
(1a. Impact; 1b. Performance ga	ap; 1c. Outcome or Evidence)
Rationale: The Committee iden	tified a number of concerns about the measure. I hey primarily believed that the scope of the mea
was limited by the fact that it pro	bvides information on a small subset of the population, since it includes only patients with insuranci
does not include those with Med	dicare or inegicald. The measure relies on pharmacy claims and provision of a prescription which p
2 Scientific Accentability of M	Appeuro Proportios:
(2a Precise specifications: 2h E	neasure Froperities. Reliability testing: 2c. Validity testing: 2d. Evolusions justified: 2e. Rick adjustment/stratification: 2f.
Meaningful differences: 2g. Com	norrability (28, 10, 28, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
Rationale:	
3. Usability:	
(3a. Meaningful/useful for public	c reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing
measures)	
· · · · · ·	
Rationale:	
Rationale: 4. Feasibility:	
Rationale: 4. Feasibility: (4a. Clinical data generated duri	ing care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptib
Rationale: 4. Feasibility: (4a. Clinical data generated duri inaccuracies/ unintended conservations)	ing care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptit quences identified 4e. Data collection strategy can be implemented)

0364 Incidental appendectomy in the elderly rate (IQI 24)

For More Information: Complete Measure Submission; Meeting/Call Proceedings

Description: Percent of elderly cases with intra-abdominal procedure with an incidental appendectomy.

Numerator Statement: Number of incidental appendectomy procedures among cases meeting the inclusion and exclusion rules for the

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0364 Incidental appendector	ny in the elderly rate (IQI 24)
denominator	ווי וויב בוטבווי ומנכ (ועו 24)
Denominator.	disaberges, age 65 years and older, with ICD 0, CM codes for abdominal and polyie surgery
Evolucional Statement. And	uischarges, age ob years and older, with ICD-9-OW codes for abdominal and pervic surgery.
MDC 14 (programou obildhid	the and nucrearium)
- MDC 14 (pregnancy, childbin	(n, and puerpenum) I remevel of the color (colortemy) or polyic eviceoration
- cases with a code for surgica	a removal of the color (colectomy) or pelvic evisceration
Adjustment/Stratification	ancer involving or adjacent to the appendix
Adjustment/Stratmcation.	o fisk adjustifient fieldessaly/oser has the option to stratily by gender, age (5-year age groups), race /
etrinicity, primary payer, or use	
Level of Analysis. Facility/ A	gency
Dete Seuree, Electronic admi	inistrativo data/alaima
Data Source: Electronic admi	inistrative data/ cialins
Measure Steward: Agency Io	neardation for Endersoment. No
Steering Committee Recomm	nendation for Endorsement: <u>No</u>
Rationale: Did not pass thresh	noid criterion of importance to Measure and Report based on continued value and relevance; thus,
remaining criteria were not ass	jessed
If applicable, Conditions/Que	estions for Developer:
Developer Response:	
If applicable, Questions to tr	te Steering Committee:
1. Importance to Measure an	d Report: <u>Y-6; N-15</u>
(1a. Impact; 1b. Performance (gap; 1c. Outcome or Evidence)
Rationale: The surgery now is	s rarely performed and while performing an appendectomy when it is not indicated has the potential to lead
to problems of contaminating a	a clean abdominal surgery, the rate of performing the surgery is quite low. While the rate of incidental
appendectomy is at 2 percent,	the Committee clarified that its vote was related to relative lack of relevance and value.
2. Scientific Acceptability of	Measure Properties:
(2a. Precise specifications; 2b.	. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f.
Meaningful differences; 2g. Co	imparability; 2h. Disparities)
Rationale:	
3. Usability:	
(3a. Meaningful/useful for publ	ic reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing
measures)	
Rationale:	
4. Feasibility:	
(4a. Clinical data generated du	iring care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to
inaccuracies/ unintended cons	equences identified 4e. Data collection strategy can be implemented)
Rationale:	
1548 Surveillance after endo	vascular abdominal aortic aneurysm repair (EVAR)
For More Information: Comp	lete Measure Submission; Meeting/Call Proceedings
Description: Percentage of pa	atients 18 years of age or older undergoing endovascular abdominal aortic aneurysm repair who have at
least one follow-up imaging stu	udy after 3 months and within 15 mos of EVAR placement that documents aneurysm sac diameter and
endoleak status. This measure	e is proposed for individual providers.
Numerator Statement: Patier	ts 18 years or older undergoing EVAR who have at least one follow-up CTA, duplex, or MRA of the
abdomen and pelvis after 3 mo	onths but within 15 months of placement, assessing for sac size and endoleak
Denominator Statement: Pat	ients 18 years or older undergoing EVAR for abdominal aortic aneurysms excluding patients who died
prior to follow-up within 15 mol	nths postoperatively.
Exclusions : Death of patient :	as recorded in registry before follow-up imaging could be obtained during the first 15 months after EVAR

Exclusions: Death of patient as recorded in registry before follow-up imaging could be obtained during the first 15 months after EVAR. The Society for Vascular Surgery Vascular Quality Initiative (SVS VQI) and the Vascular Study Group of New England (VSGNE) registries record this information.

Adjustment/Stratification: no risk adjustment necessary/No stratification is required for this measure.

Level of Analysis: Can be measured at all levels; Clinicians: Individual; Clinicians: Group

Type of Measure: Process

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Data Source: Registry data

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1548 Surveillance after endovascular abdominal aortic aneurysm repair (EVAR)
Measure Steward: Society for Vascular Surgery 633 N. St. Clair, 22nd floor Chicago Illinois, 60611
Steering Committee Recommendation for Endorsement: Y-5; N-15; A-1
Rationale: While the measure highlights opportunities for improvement and the surveillance data could provide key information on the
EVAR follow up, the reasons why surveillance is not completed are varied. As one example, patients may not report for follow up
because of travel costs associated with returning for scans. The Committee expressed concern about the way the measure would be
used and what its importance would be since there are many reasons (including socioeconomic) why patients do not have scans.
If applicable, Conditions/Questions for Developer:
Developer Response:
If applicable, Questions to the Steering Committee:
1. Importance to Measure and Report: Y-20; N-1
(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)
Rationale: The measure cited endograft surveillance performance rates from two major medical centers. One center had a 50 percent
endograph surveillance rate, while the other had a performance rate of 75 percent. These statistics indicate an opportunity for
improvement.
2. Scientific Acceptability of Measure Properties: C-3; P-15; M-3; N-0
(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f.
Meaningful differences; 2g. Comparability; 2h. Disparities)
Rationale: Concerns included the variety of reasons why a patient might not have follow up testing that cannot be differentiated by the
measure; controversy about best imaging strategy and the identified timeframe that will not capture all appropriately completed testing
3. Usability: <u>C-3; P-15; M-3; N-0</u>
(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing
measures)
Rationale: The Committee was unclear about how the measure would be publicly reported and what unintended consequences could
result given that the provider plan for follow up is subject to patient action, which can be influenced by a number of things including
socioeconomic factors.
4. Feasibility: <u>C-3; P-11; M-5; N-2</u>
(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to
inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)
Rationale: The measure was considered feasible in that, while the measure uses registry data, it could be applied, outside the registry,
using administrative data.
1531 Follow-up, assessment of stroke or death after carotid revascularization
For More Information: Complete Measure Submission: Meeting/Call Proceedings
Por wore information. Complete measure Submission, meeting/Cail Proceedings
percention. Proportion of patients with carolic revascularization procedures who had follow-up performed for evaluation of dealer and
14 and 60 days after the procedure
Numerator Statement: Patients with documentation of a follow up assessment between 14 and 60 days after the date of carotid
revise ularization for both:
1 Neurologic status with an assessment using the NIH Stroke Scale (by an examiner who is certified by the American Stroke
Association) AND
2 Vital Status (alive or expired)
Denominator Statement: Patients with carotid revascularization (surgery or stent) procedures
Exclusions: Patients with pre-procedure conditions of:
1. Acute evolving stroke, or
2. Carotid artery dissection
Adjustment/Stratification: no risk adjustment necessary/No stratification is required for this measure.
Level of Analysis: Facility/ Agency
Type of Measure: Process
Data Source: Registry data
Measure Steward: American College of Cardiology Foundation (ACCF) 2400 N Street NW Washington District Of Columbia. 20037
Steering Committee Recommendation for Endorsement: Y-9; N-12; A-0
Rationale: Two issues were key: 1) there is little evidence that this process measure is strongly linked to improvement in outcome, and
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1531 Follow-up assessment of stroke or death after carotid revascularization

2) the likelihood of being able to retrieve the information and that of requirement that assessment be done by an American Stroke Association certified examiner. With respect to the latter, there was question about comparability of baseline and post procedure testing. The Steering Committee recognized the importance of having a standardized form of assessment for stroke or death after carotid revascularization. They continued to express concern about the feasibility of the data collection and the independent assessment. Hospitals would be responsible for collecting the data. It was explained that the assessment could take place at a post-operative visit and the independent examiner could be a variety of medical personnel certified through an online course. The Steering Committee also discussed whether the measure had a link to an improvement in outcomes. Though all concerns were not alleviated, they concluded that such a measure could encourage a standardized neurological assessment to be conducted, which could indicate whether an improvement needed to take place.

If applicable, Conditions/Questions for Developer:

- 1. <u>2a.1 Numerator Statement</u>: Reconsider the window of time within which assessment must be completed, including consideration of assessment prior to 21 days.
- 2. <u>2b Reliability Testing</u>: Please provide reliability testing information addressing, with specifics, each required item.
- 3. <u>2c.3 Validity Testing Results</u>: Please provide information regarding how the testing compares with the relevant evidence and guidelines.

Developer Response:

1. Numerator statement – assessment prior to 21 days:

The measure developers reconsidered the window of time for assessment and decided to maintain the current period for assessment between 21 and 60 days for several reasons. First, major contemporary trials used 30 day events as primary endpoints for outcomes, which included neurologic assessment to identify stroke. Based on these trial endpoints, the developers felt a follow-up timeframe <21 days would miss the identification of new neurological events that trigger the need for further evaluation from a neurologist. Second, a structured timeframe, consistent with contemporary trials, provides a more accurate comparison of rates of assessment and outcomes between facilities providing carotid revascularization procedures. Finally, testing of the measure indicated only 2% of patients submitted with follow-up records had an assessment timeframe of <21 days.

2. Reliability Testing:

2b. Reliability testing:

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

Data were compared for 33 hospitals with 30 or more procedures for a 12 month period from January 2009 to December 2009 and from January 2010 and January 2010.

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

Results were compared for two proximate time periods: January 2009 to December 2009 and from January 2010 to December 2010. Hospitals were excluded if they did not have data for both time periods, or if they did not perform 30 or more procedures during this time period. A simple scatter plot to assess correlation of follow-up rates for these hospitals for the 2 time periods was developed, as well as a Bland-Altman plot to show the range of hospital change in performance for these two time periods.

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

See below. The correlation coefficient observed was 0.78. The average change in performance was -0.018, with a 95% confidence interval of 0.347 to 0.311, showing very good reliability of data over time.



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1531 Follow-up assessment of stroke or death after carotid revascularization

3. <u>Validity Testing Results</u>: Major contemporary trials used 30 day assessment of primary endpoints for outcomes, which included neurologic assessment to identify stroke. Measure testing demonstrated three things: 1) the CARE Registry dataset has the data elements to accurately measure and report this process of care; 2) a gap in care exists with regard to assessment and reporting around the 30 day outcome endpoint consistent with published literature; and 3) among the patients who had follow-up, nearly all of them had follow-up during the timeframe of 21-60 days (see below diagram - 2.2% had follow-up performed <21 days and 0.76% had follow-up >60 days).

Days post-procedure for Assessment



(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale: The Steering Committee stated that the measure would promote gathering standardized assessment information which could be used for quality improvement.

4. Feasibility: C-2; P-10; M-5; N-4

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)

Rationale: The Steering Committee was concerned about the feasibility and burden of data collection on organizations.

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0367 Post operative wound dehiscence (PDI 11)

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0367 Post operative wound dehiscence (PDI 11)
For More Information: Complete Measure Submission; Meeting/Call Proceedings
Description: Percentage of abdominopelvic surgery cases with reclosure of postoperative disruption of abdominal wall.
Numerator Statement: Discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM
procedure code for reclosure of postoperative disruption of abdominal wall.
Denominator Statement: All abdominopelvic surgical discharges under age 18.
Exclusions: Exclude cases:
where a procedure for reclosure of postoperative disruption of abdominal wall occurs before or on the same day as the first
abdominopelvic surgery procedure
Note: If day of procedure is not available in the input data file, the rate may be slightly lower than if the information was available
• Where length of stay is less than 2 days
 With any diagnosis of high, or immediate risk immunocompromised state
With any diagnosis of high- of infinediate-fisk infinditocomptomised state
• With hepatitis failure consisting of any diagnosis of cirrhosis plus a code for hepatic coma or hepatorenal syndrome in any diagnosis
field with procedure code for gastroschisis or umbilical hernia repair in newborns (omphalacele repair) performed before reclosure
MDC 14 (pregnancy, childbirth, and puerperium)
 neonates with birth weight less than 500 grams (Birth Weight Category 1)
Adjustment/Stratification: Risk adjustment method widely or commercially available/The predicted value for each case is computed
using a hierarchical model (logistic regression with hospital random effect) and covariates for gender, birth weight (500g groups), age in
days (29-60, 61-90, 91+), age in years (in 5-year age groups), modified CMS DRG and AHRQ CCS comorbidities. The reference
population used in the model is the universe of discharges for states that participate in the HCUP State Inpatient Databases (SID) for the
year 2007 (updated annually), a database consisting of 43 states and approximately 6 million pediatric discharges. The expected rate is
computed as the sum of the predicted value for each case divided by the number of cases for the unit of analysis of interest (i.e.,
hospital, state, and region). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the
expected rate, multiplied by the reference population rate.
Required data elements: CMS Diagnosis Related Group (DRG): CMS Major Diagnostic Category (MDC); age in days up to 364, then
age vears at admission: International Classification of Diseases. Ninth Revision. Clinical Modification (ICD-9-CM) principal and
secondary diagnosis codes/Clinical stratification for PDIs 10 and 11 is divided into four categories based on surgical class associated
with the DRG or MS-DRG and whether or not the admission type is elective (SID ATYPE=3) as shown in the table below
PDI 10 and PDI 11
Clinical Stratification Categories
Clinical Stratification
Admission Type
Admission Type
Liective
Strata 2. Clean Procedures Non-Elective
1
Not Elective
Strata 3. Potentially Contaminated Elective
2, 3, or 9
Elective
Strata 4. Potentially Contaminated Non-Elective
2, 3, or 9
Not Elective
Surgical Class 1 DRGs
For discharges using DRGs (before October 1, 2007)
DRG - TITLE
003 - CRANIOTOMY AGE 0-17
006 - CARPAL TUNNEL RELEASE
007 - PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W CC
008 - PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W/O CC

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036 - RETINAL PROCEDURES
037 - ORBITAL PROCEDURES
038 - PRIMARY IRIS PROCEDURES
039 - LENS PROCEDURES WITH OR WITHOUT VITRECTOMY
041 - EXTRAOCULAR PROCEDURES EXCEPT ORBIT AGE 0-17
042 - INTRAOCULAR PROCEDURES EXCEPT RETINA, IRIS & LENS
049 - MAJOR HEAD & NECK PROCEDURES
050 - SIALOADENECTOMY
DRG - TITLE
051 - SALIVARY GLAND PROCEDURES EXCEPT SIALOADENECTOMY
052 - CLEFT LIP & PALATE REPAIR
054 - SINUS & MASTOID PROCEDURES AGE 0-17
055 - MISCELLANEOUS EAR, NOSE, MOUTH & THROAT PROCEDURES
058 - T&A PROC, EXCEPT TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE 0-17
060 - TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE 0-17
062 - MYRINGOTOMY W TUBE INSERTION AGE 0-17
U63 - UTHER EAR, NUSE, MOUTH & THROAT U.R. PROCEDURES
UKG - TITLE 102 - LIEADT TRANCOLANT OR IMPLANT OF LIEADT ACCIENT OVEREM
117 - CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT
118 - CARDIAC PACEMAKER DEVICE REPLACEMENT
120 - OTHER CIRCUI ATORY SYSTEM O R. PROCEDURES
163 - HERNIA PROCEDURES AGE 0-17
168 - MOLITH PROCEDURES W.CC
169 - MOUTH PROCEDURES W/O CC
212 - HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE 0-17
213 - AMPUTATION FOR MUSCULOSKELETAL SYSTEM & CONN TISSUE DISORDERS
216 - BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE
217 - WND DEBRID & SKN GRET EXCEPT HAND FOR MUSCSKELET & CONN TISS DIS
220 - LOWER EXTREM & HUMER PROC EXCEPT HIP.FOOT.FEMUR AGE 0-17
223 - MAJOR SHOULDER/ELBOW PROC. OR OTHER UPPER EXTREMITY PROC W CC
224 - SHOULDER, ELBOW OR FOREARM PROC, EXC MAJOR JOINT PROC, W/O CC
225 - FOOT PROCEDURES
226 - SOFT TISSUE PROCEDURES W CC
227 -SOFT TISSUE PROCEDURES W/O CC
228 - MAJOR THUMB OR JOINT PROC, OR OTH HAND OR WRIST PROC W CC
229 - HAND OR WRIST PROC, EXCEPT MAJOR JOINT PROC. W/O CC
230 - LOCAL EXCISION & REMOVAL OF INT FIX DEVICES OF HIP & FEMUR
232 - ARTHROSCOPY
233 - OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W CC
DRG - TITLE
234 - OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W/O CC
257 - TOTAL MASTECTOMY FOR MALIGNANCY W CC

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	0367 Post operative wound dehiscence (PDI 11)
	258 - TOTAL MASTECTOMY FOR MALIGNANCY W/O CC
	259 - SUBTOTAL MASTECTOMY FOR MALIGNANCY W CC
	260 - SUBTOTAL MASTECTOMY FOR MALIGNANCY W/O CC
	261 - BREAST PROC FOR NON-MALIGNANCY EXCEPT BIOPSY & LOCAL EXCISION
	262 - BREAST BIOPSY & LOCAL EXCISION FOR NON-MALIGNANCY
	285 - AMPLITAT OF LOWER LIMB FOR ENDOCRINE NUTRIT & METABOL DISORDERS
	286 - ADRENAL & PITHTARY PROCEDURES
	200 - ADITAL OF THE THE ATT THE ADDED AND A DECEMPTOR AND A DECEMPT
	207 - SKIN GRAFTS & WOUND DEDRID FOR ENDOU, NUTRIT & WETAD DISORDERS
	291 - THYROGLOSSAL PROCEDURES
	292 - OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W CC
	293 - OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W/O CC
	338 - TESTES PROCEDURES, FOR MALIGNANCY
	340 - TESTES PROCEDURES, NON-MALIGNANCY AGE 0-17
	393 - SPLENECTOMY AGE 0-17
	394 - OTHER O.R. PROCEDURES OF THE BLOOD AND BLOOD FORMING ORGANS
	471 - BILATERAL OR MULTIPLE MAJOR JOINT PROCS OF LOWER EXTREMITY
	479 - OTHER VASCULAR PROCEDURES W/O CC
	481 - BONE MARROW TRANSPLANT
	491 - MAJOR JOINT & LIMB REATTACHMENT PROCEDURES OF UPPER EXTREMITY
	496 - COMBINED ANTERIOR/POSTERIOR SPINAL FUSION
	497 - SPINAL FUSION EXCEPT CERVICAL W CC
	498 - SPINAL FUSION EXCEPT CERVICAL W/O CC
	499 - BACK & NECK PROCEDURES EXCEPT SPINAL FUSION W CC
	500 - BACK & NECK PROCEDURES EXCEPT SPINAL FUSION W/O CC
	501 - KNEE PROCEDURES W PDY OF INFECTION W CC
	DDC TITLE
	518 - PERU CARDIO PROCI W/O CORONART ARTERT STENT OR AMI
	519 - CERVICAL SPINAL FUSION W CC
	520 - CERVICAL SPINAL FUSION W/O CC
	525 - OTHER HEART ASSIST SYSTEM IMPLANT
	528 - INTRACRANIAL VASCULAR PROC W PDX HEMORRHAGE
	529 - VENTRICULAR SHUNT PROCEDURES W CC
	530 - VENTRICULAR SHUNT PROCEDURES W/O CC
	531 - SPINAL PROCEDURES W CC
	532 - SPINAL PROCEDURES W/O CC
	533 - EXTRACRANIAL PROCEDURES W CC
	534 - EXTRACRANIAL PROCEDURES W/O CC
	535 - CARDIAC DEFIB IMPLANT W CARDIAC CATH W AMI/HF/SHOCK
	536 - CARDIAC DEFIB IMPLANT W CARDIAC CATH W/O AMI/HF/SHOCK
	537 - LOCAL EXCIS & REMOV OF INT FIX DEV EXCEPT HIP & FEMUR W CC
	538 - LOCAL EXCIS & REMOV OF INT FIX DEV EXCEPT HIP & FEMUR W/O CC
ļ	543 - CRANIOTOMY W MAJOR DEVICE IMPLANT OR ACUTE COMPLEX CNS PRINCIPAL DIAGNOSIS
ļ	544 - MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY
ļ	545 - REVISION OF HIP OR KNEE REPLACEMENT
ļ	
ļ	5/6 - SPINAL ELISION EXC. CERV WITH CLIRVATURE OF THE SPINE OP MALIC
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0367 Post operative wound dehiscence (PDI 11) 549 - CORONARY BYPASS W/O CARDIAC CATH W MAJOR CV DX 550 - CORONARY BYPASS W/O CARDIAC CATH W/O MAJOR CV DX 551 - PERMANENT CARDIAC PACEMAKER IMPL W MAJ CV DX OR AICD LEAD OR GNRTR 552 - OTHER PERMANENT CARDIAC PACEMAKER IMPLANT W/O MAJOR CV DX 553 - OTHER VASCULAR PROCEDURES W CC W MAJOR CV DX 554 - OTHER VASCULAR PROCEDURES W CC W/O MAJOR CV DX 555 - PERCUTANEOUS CARDIOVASCULAR PROC W MAJOR CV DX 556 - PERCUTANEOUS CARDIOVASC PROC W NON-DRUG-ELUTING STENT W/O MAJ CV DX 557 - PERCUTANEOUS CARDIOVASCULAR PROC W DRUG-ELUTING STENT W MAJOR CV DX 558 - PERCUTANEOUS CARDIOVASCULAR PROC W DRUG-ELUTING STENT W/O MAJ CV DX 577 - CAROTID ARTERY STENT PROCEDURE Surgical Class 1 MS-DRGs For discharges using MS-DRGs (on or after October 1, 2007) MS-DRG - TITLE 001 - HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM W MCC 002 - HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM W/O MCC 009 - BONE MARROW TRANSPLANT 020 - INTRACRANIAL VASCULAR PROCEDURES W PDX HEMORRHAGE W MCC 021 - INTRACRANIAL VASCULAR PROCEDURES W PDX HEMORRHAGE W CC 022 - INTRACRANIAL VASCULAR PROCEDURES W PDX HEMORRHAGE W/O CC/MCC 023 - CRANIO W MAJOR DEV IMPL/ACUTE COMPLEX CNS PDX W MCC OR CHEMO IMPLANT 024 - CRANIO W MAJOR DEV IMPL/ACUTE COMPLEX CNS PDX W/O MCC 027 - CRANIOTOMY & ENDOVASCULAR INTRACRANIAL PROCEDURES W/O MS-DRG - TITLE CC/MCC 028- SPINAL PROCEDURES W MCC 029 - SPINAL PROCEDURES W CC OR SPINAL NEUROSTIMULATORS 030 - SPINAL PROCEDURES W/O CC/MCC 031 - VENTRICULAR SHUNT PROCEDURES W MCC 032 - VENTRICULAR SHUNT PROCEDURES W CC 033 - VENTRICULAR SHUNT PROCEDURES W/O CC/MCC 034 - CAROTID ARTERY STENT PROCEDURE W MCC 035 - CAROTID ARTERY STENT PROCEDURE W CC 036 - CAROTID ARTERY STENT PROCEDURE W/O CC/MCC 037 - EXTRACRANIAL PROCEDURES W MCC 038 - EXTRACRANIAL PROCEDURES W CC 039 - EXTRACRANIAL PROCEDURES W/O CC/MCC AHRQ Quality Indicators Web Site: http://www.gualityindicators.ahrg.gov Pediatric Quality Indicators Technical Specifications Version 4.2-2010 PDI #11 Postoperative Wound Dehiscence Page 10 MS-DRG - TITLE 040 - PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W MCC 041 - PERIPH/CRANIAL NERVE & OTHER NERV SYST PROC W CC OR PERIPH NEUROSTIM 042 - PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W/O CC/MCC 113 - ORBITAL PROCEDURES W CC/MCC 114 - ORBITAL PROCEDURES W/O CC/MCC 115 - EXTRAOCULAR PROCEDURES EXCEPT ORBIT 116 - INTRAOCULAR PROCEDURES W CC/MCC 117 - INTRAOCULAR PROCEDURES W/O CC/MCC 129 - MAJOR HEAD & NECK PROCEDURES W CC/MCC OR MAJOR DEVICE 130 - MAJOR HEAD & NECK PROCEDURES W/O CC/MCC 131 - CRANIAL/FACIAL PROCEDURES W CC/MCC 132 - CRANIAL/FACIAL PROCEDURES W/O CC/MCC

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0367 Post operative wound dehiscence (PDI 11) 246 - PERC CARDIOVASC PROC W DRUG-ELUTING STENT W MCC OR 4+ VESSELS/STENTS 247 - PERC CARDIOVASC PROC W DRUG-ELUTING STENT W/O MCC 248 - PERC CARDIOVASC PROC W NON-DRUG-ELUTING STENT W MCC OR 4+ VES/STENTS 249 - PERC CARDIOVASC PROC W NON-DRUG-ELUTING STENT W/O MCC 250 - PERC CARDIOVASC PROC W/O CORONARY ARTERY STENT OR AMI W MCC 251 - PERC CARDIOVASC PROC W/O CORONARY ARTERY STENT OR AMI W/O MCC 252 - OTHER VASCULAR PROCEDURES W MCC MS-DRG - TITLE 253 - OTHER VASCULAR PROCEDURES W CC 254 - OTHER VASCULAR PROCEDURES W/O CC/MCC 255 - UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS W MCC 256 - UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS W CC 257 - UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS W/O CC/MCC 258 - CARDIAC PACEMAKER DEVICE REPLACEMENT W MCC 259 - CARDIAC PACEMAKER DEVICE REPLACEMENT W/O MCC 260 - CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT W MCC 261 - CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT W CC 262 - CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT W/O CC/MCC 263 - VEIN LIGATION & STRIPPING 264 - OTHER CIRCULATORY SYSTEM O.R. PROCEDURES 352 - INGUINAL & FEMORAL HERNIA PROCEDURES W/O CC/MCC 453 - COMBINED ANTERIOR/POSTERIOR SPINAL FUSION W MCC 454 - COMBINED ANTERIOR/POSTERIOR SPINAL FUSION W CC 455 - COMBINED ANTERIOR/POSTERIOR SPINAL FUSION W/O CC/MCC 456 - SPINAL FUS EXC CERV W SPINAL CURV/MALIG/INFEC OR 9+ FUS W MCC 457 - SPINAL FUS EXC CERV W SPINAL CURV/MALIG/INFEC OR 9+ FUS W CC 458 - SPINAL FUS EXC CERV W SPINAL CURV/MALIG/INFEC OR 9+ FUS W/O CC/MCC 459 - SPINAL FUSION EXCEPT CERVICAL W MCC 460 - SPINAL FUSION EXCEPT CERVICAL W/O MCC 461 - BILATERAL OR MULTIPLE MAJOR JOINT PROCS OF LOWER EXTREMITY W MCC 462 - BILATERAL OR MULTIPLE MAJOR JOINT PROCS OF LOWER EXTREMITY W/O MCC 463 - WND DEBRID & SKN GRFT EXC HAND, FOR MUSCULO-CONN TISS DIS W MCC 464 - WND DEBRID & SKN GRFT EXC HAND, FOR MUSCULO-CONN TISS DIS W CC 465 - WND DEBRID & SKN GRFT EXC HAND, FOR MUSCULO-CONN TISS DIS W/O CC/MCC 466 - REVISION OF HIP OR KNEE REPLACEMENT W MCC 467 - REVISION OF HIP OR KNEE REPLACEMENT W CC 468 - REVISION OF HIP OR KNEE MS-DRG - TITLE **REPLACEMENT W/O CC/MCC** 469 - MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY W MCC 470 - MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY W/O MCC 471 - CERVICAL SPINAL FUSION W MCC 472 - CERVICAL SPINAL FUSION W CC 473 - CERVICAL SPINAL FUSION W/O CC/MCC 474 - AMPUTATION FOR MUSCULOSKELETAL SYS & CONN TISSUE DIS W MCC 475 - AMPUTATION FOR MUSCULOSKELETAL SYS & CONN TISSUE DIS W CC 476 - AMPUTATION FOR MUSCULOSKELETAL SYS & CONN TISSUE DIS W/O CC/MCC 477 - BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W MCC 478 - BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W CC 479 - BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W/O CC/MCC 482 - HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT W/O CC/MCC 483 - MAJOR JOINT & LIMB REATTACHMENT PROC OF UPPER EXTREMITY W CC/MCC 484 - MAJOR JOINT & LIMB REATTACHMENT PROC OF UPPER EXTREMITY W/O CC/MCC

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0367 Post operative wound dehiscence (PDI 11) 485 - KNEE PROCEDURES W PDX OF INFECTION W MCC 486 - KNEE PROCEDURES W PDX OF INFECTION W CC 487 - KNEE PROCEDURES W PDX OF INFECTION W/O CC/MCC 488 - KNEE PROCEDURES W/O PDX OF INFECTION W CC/MCC 489 - KNEE PROCEDURES W/O PDX OF INFECTION W/O CC/MCC 490 - BACK & NECK PROC EXC SPINAL FUSION W CC/MCC OR DISC DEVICE/NEUROSTIM 491 - BACK & NECK PROC EXC SPINAL FUSION W/O CC/MCC 494 - LOWER EXTREM & HUMER PROC EXCEPT HIP, FOOT, FEMUR W/O CC/MCC 495 - LOCAL EXCISION & REMOVAL INT FIX DEVICES EXC HIP & FEMUR W MCC 496 - LOCAL EXCISION & REMOVAL INT FIX DEVICES EXC HIP & FEMUR W CC 497 - LOCAL EXCISION & REMOVAL INT FIX DEVICES EXC HIP & FEMUR W/O CC/MCC 498 - LOCAL EXCISION & REMOVAL INT FIX DEVICES OF HIP & FEMUR W CC/MCC 499 - LOCAL EXCISION & REMOVAL INT FIX DEVICES OF HIP & FEMUR W/O CC/MCC 500 - SOFT TISSUE PROCEDURES W MCC AHRQ Quality Indicators Web Site: http://www.gualityindicators.ahrg.gov Pediatric Quality Indicators Technical Specifications Version 4.2-2010 PDI #11 Postoperative Wound Dehiscence Page 12 MS-DRG - TITLE 501 - SOFT TISSUE PROCEDURES W CC 502 - SOFT TISSUE PROCEDURES W/O CC/MCC 503 - FOOT PROCEDURES W MCC 504 - FOOT PROCEDURES W CC 505 - FOOT PROCEDURES W/O CC/MCC 506 - MAJOR THUMB OR JOINT PROCEDURES 507 - MAJOR SHOULDER OR ELBOW JOINT PROCEDURES W CC/MCC 508 - MAJOR SHOULDER OR ELBOW JOINT PROCEDURES W/O CC/MCC 509 - ARTHROSCOPY 510 - SHOULDER, ELBOW OR FOREARM PROC, EXC MAJOR JOINT PROC W MCC 511 - SHOULDER, ELBOW OR FOREARM PROC, EXC MAJOR JOINT PROC W CC 512 - SHOULDER, ELBOW OR FOREARM PROC, EXC MAJOR JOINT PROC W/O CC/MCC 513 - HAND OR WRIST PROC, EXCEPT MAJOR THUMB OR JOINT PROC W CC/MCC 514 - HAND OR WRIST PROC, EXCEPT MAJOR THUMB OR JOINT PROC W/O CC/MCC 515 - OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W MCC 516 - OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W CC 517 - OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W/O CC/MCC 582 - MASTECTOMY FOR MALIGNANCY W CC/MCC 583 - MASTECTOMY FOR MALIGNANCY W/O CC/MCC 584 - BREAST BIOPSY, LOCAL EXCISION & OTHER BREAST PROCEDURES W CC/MCC 585 - BREAST BIOPSY, LOCAL EXCISION & OTHER BREAST PROCEDURES W/O CC/MCC 614 - ADRENAL & PITUITARY PROCEDURES MS-DRG - TITLE W CC/MCC 615 - ADRENAL & PITUITARY PROCEDURES W/O CC/MCC 616 - AMPUTAT OF LOWER LIMB FOR ENDOCRINE, NUTRIT, & METABOL DIS W MCC 617 - AMPUTAT OF LOWER LIMB FOR ENDOCRINE, NUTRIT, & METABOL DIS W CC 618 - AMPUTAT OF LOWER LIMB FOR ENDOCRINE, NUTRIT, & METABOL DIS W/O CC/MCC 622 - SKIN GRAFTS & WOUND DEBRID FOR ENDOC. NUTRIT & METAB DIS W MCC 623 - SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DIS W CC 624 - SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DIS W/O CC/MCC 625 - THYROID, PARATHYROID & THYROGLOSSAL PROCEDURES W MCC 626 - THYROID, PARATHYROID & THYROGLOSSAL PROCEDURES W CC 627 - THYROID, PARATHYROID & THYROGLOSSAL PROCEDURES W/O CC/MCC 628 - OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W MCC

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629 - OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W CC
630 - OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W/O CC/MCC
711 - TESTES PROCEDURES W CC/MCC
712 - TESTES PROCEDURES W/O CC/MCC
800 - SPLENECTOMY W CC
801 - SPLENECTOMY W/O CC/MCC
802 - OTHER O.R. PROC OF THE BLOOD & BLOOD FORMING ORGANS W MCC
803 - OTHER O.R. PROC OF THE BLOOD & BLOOD FORMING ORGANS W CC
804 - OTHER O.R. PROC OF THE BLOOD & BLOOD FORMING ORGANS W/O CC/MCC
Surgical Class 2 DRGs
For discharges using DRGs (before October 1, 2007)
DRG - TITLE
075 - MAJOR CHEST PROCEDURES
076 - OTHER RESP SYSTEM O.R. PROCEDURES W CC
077 - OTHER RESP SYSTEM O.R. PROCEDURES W/O CC
146 - RECTAL RESECTION W CC
147 - RECTAL RESECTION W/O CC
149 - MAJOR SMALL & LARGE BOWEL PROCEDURES W/O CC
150 - PERITONEAL ADHESIOLYSIS W CC
151 - PERITONEAL ADHESIOLYSIS W/O CC
DRG - TITLE
152 - MINOR SMALL & LARGE BOWEL PROCEDURES W CC
153 - MINOR SMALL & LARGE BOWEL PROCEDURES W/O CC
156 - STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE 0-17
157 - ANAL & STOMAL PROCEDURES W CC
158 - ANAL & STOMAL PROCEDURES W/O CC
166 - APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W CC
DRG - TITLE
167 - APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC
170 - OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W CC
171 - OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC
191 - PANCREAS, LIVER & SHUNT PROCEDURES W CC
192 - PANCREAS, LIVER & SHUNT PROCEDURES W/O CC
193 - BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W CC
194 - BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W/O CC
195 - CHOLECYSTECTOMY W C.D.E. W CC
196 - CHOLECYSTECTOMY W C.D.E. W/O CC
197 - CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W CC
198 - CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W/O CC
199 - HEPATOBILIARY DIAGNOSTIC PROCEDURE FOR MALIGNANCY
200 - HEPATOBILIARY DIAGNOSTIC PROCEDURE FOR NON-MALIGNANCY
201 - OTHER HEPATOBILIARY OR PANCREAS O.R. PROCEDURES
265 - SKIN GRAFT &/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS W CC
266 - SKIN GRAFT &/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS W/O CC
267 - PERIANAL & PILONIDAL PROCEDURES
268 - SKIN, SUBCUTANEOUS TISSUE & BREAST PLASTIC PROCEDURES
269 - OTHER SKIN, SUBCUT TISS & BREAST PROC W CC
270 - OTHER SKIN, SUBCUT TISS & BREAST PROC W/O CC
288 - O.R. PROCEDURES FOR OBESITY
302 - KIDNEY TRANSPLANT
303 - KIDNEY AND URETER PROCEDURES FOR NEOPLASM
304 - KIDNEY AND URETER PROCEDURES FOR NON-NEOPLASM WITHOUT CC
305 - KIDNEY AND URETER PROCEDURES FOR NON-NEOPLASM WITHOUT CC

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0367 Post operative wound dehiscence (PDI 11) 306 - PROSTATECTOMY W CC 307 - PROSTATECTOMY W/O CC 308 - MINOR BLADDER PROCEDURES W CC 309 - MINOR BLADDER PROCEDURES W/O CC 310 - TRANSURETHRAL PROCEDURES W CC 311 - TRANSURETHRAL PROCEDURES W/O CC 314 - URETHRAL PROCEDURES, AGE 0-17 315 - OTHER KIDNEY & URINARY TRACT O.R. PROCEDURES 334 - MAJOR MALE PELVIC PROCEDURES W CC 335 - MAJOR MALE PELVIC PROCEDURES W/O CC 336 - TRANSURETHRAL PROSTATECTOMY W CC DRG - TITLE 337 - TRANSURETHRAL PROSTATECTOMY W/O CC 341 - PENIS PROCEDURES 343 - CIRCUMCISION AGE 0-17 344 - OTHER MALE REPRODUCTIVE SYSTEM O.R. PROCEDURES FOR MALIGNANCY 345 - OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXCEPT FOR MALIGNANCY 353 - PELVIC EVISCERATION, RADICAL HYSTERECTOMY & RADICAL VULVECTOMY 354 - UTERINE, ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W CC 355 - UTERINE, ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W/O CC 356 - FEMALE REPRODUCTIVE SYSTEM RECONSTRUCTIVE PROCEDURES 357 - UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY 358 - UTERINE & ADNEXA PROC FOR NON-MALIGNANCY W CC 359 - UTERINE & ADNEXA PROC FOR NON-MALIGNANCY W/O CC 360 - VAGINA, CERVIX & VULVA PROCEDURES 361 - LAPAROSCOPY & INCISIONAL TUBAL INTERRUPTION 362 - ENDOSCOPIC TUBAL INTERRUPTION 363 - D&C, CONIZATION & RADIO-IMPLANT, FOR MALIGNANCY 364 - D&C, CONIZATION EXCEPT FOR MALIGNANCY 365 - OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES 370 - CESAREAN SECTION W CC 371 - CESAREAN SECTION W/O CC 372 - VAGINAL DELIVERY W COMPLICATING DIAGNOSES 373 - VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES 374 - VAGINAL DELIVERY W STERILIZATION &/OR D&C 375 - VAGINAL DELIVERY W O.R. PROC EXCEPT STERIL &/OR D&C 377 - POSTPARTUM & POST ABORTION DIAGNOSES W O.R. PROCEDURE 381 - ABORTION W D&C. ASPIRATION CURETTAGE OR HYSTEROTOMY 468 - EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS 476 - PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS 477 - NON-EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS 480 - LIVER TRANSPLANT AND/OR INTESTINAL TRANSPLANT 482 - TRACHEOSTOMY FOR FACE, MOUTH & NECK DIAGNOSES 493 - LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W CC AHRQ Quality Indicators Web Site: http://www.gualityindicators.ahrg.gov Pediatric Quality Indicators Technical Specifications Version 4.2-2010 PDI #11 Postoperative Wound Dehiscence Page 14 DRG - TITLE 494 - LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W/O CC 495 - LUNG TRANSPLANT 512 - SIMULTANEOUS PANCREAS/KIDNEY TRANSPLANT 513 - PANCREAS TRANSPLANT 541 - ECMO OR TRACH W MV 96+HRS OR PDX EXC FACE, MOUTH & NECK W MAJ O.R.

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DRG - TITLE
542 - TRACH W MV 96+HRS OR PDX EXC FACE, MOUTH & NECK W/O MAJ O.R.
559 - ACUTE ISCHEMIC STROKE WITH USE OF THROMBOLYTIC AGENT
569 - MAJOR SMALL & LARGE BOWEL PROCEDURES W CC W MAJOR GI DX
570 - MAJOR SMALL & LARGE BOWEL PROCEDURES W CC W/O MAJOR GI DX
573 - MAJOR BLADDER PROCEDURES
Surgical Class 2 MS-DRGs
For discharges using MS-DRGs (on or after October 1, 2007)
MS-DRG - TITLE
003 - ECMO OR TRACH W MV 96+ HRS OR PDX EXC FACE, MOUTH & NECK W MAJ O.R.
004 - TRACH W MV 96+ HRS OR PDX EXC FACE, MOUTH & NECK W/O MAJ O.R.
005 - LIVER TRANSPLANT W MCC OR INTESTINAL TRANSPLANT
006 - LIVER TRANSPLANT W/O MCC
007 - LUNG TRANSPLANT
008 - SIMULTANEOUS PANCREAS/KIDNEY TRANSPLANT
010 - PANCREAS TRANSPI ANT
011 - TRACHEOSTOMY FOR FACE MOUTH & NECK DIAGNOSES W MCC
012 - TRACHEOSTOMY FOR FACE MOUTH & NECK DIAGNOSES W CC
013 - TRACHEOSTOMY FOR FACE MOUTH & NECK DIAGNOSES W/O CC/MCC
061 - ACUTE ISCHEMIC STROKE WIJSE OF THROMBOLYTIC AGENT WIMCC
062 - ACUTE ISCHEMIC STROKE WUSE OF THROMBOLYTIC AGENT W CC
063 - ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC AGENT W OC
163 - MA IOR CHEST PROCEDURES W MCC
164 - MAJOR CHEST PROCEDURES W CC
165 - MA IOR CHEST PROCEDURES W/O CC/MCC
166 - OTHER RESP SYSTEM O R. PROCEDURES W MCC
167 - OTHER RESP SYSTEM O.R. PROCEDURES W.CC.
168 - OTHER RESP SYSTEM O.R. PROCEDURES W/O.CC/MCC
327 - STOMACH ESOPHAGEAL & DUODENAL PROCINICO
329 - MAIOR SMALL & LARGE ROWEL PROCEDURES WIMCC
320 MAJOR SMALL & LARGE BOWEL PROCEDURES WINKE
331 - MAJOR SMALL & LARGE BOWEL PROCEDURES W/O CC/MCC
332 - RECTAL RESECTION W MCC
333 - RECTAL RESECTION WINCO
334 - RECTAL RESECTION W/O CC/MCC
336
PERITONEAL ADHESIOLYSIS W.CC
337 - DERITONEAL ADHESIOLISIS W/O CC/MCC
3/1 - APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W MCC
341 - AITENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W CC
342 - AITENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC/MCC
343 - AITENDECTOWN W/O COMPETENTED TRINGINAL DIAG W/O CO/MICC
345 MINOR SMALL & LANGE BOWEL PROCEDURES WINCO
346 MINOR SMALL & LANGE BOWEL PROCEDURES W CC
340 - MINOR SMALL & LANGE DOWLET ROOLDORES W/O CO/MOC
348 - ANAL & STOMAL PROCEDURES W CC
340 - ANAL & STOMAL PROCEDURES W/O COMOC
356 - OTHER DIGESTIVE SVSTEM OR DROCEDURES W/ MCC

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406 - PANCREAS, LIVER & SHUNT PROCEDURES W CC 407 - PANCREAS, LIVER & SHUNT PROCEDURES W/O CC/MCC 408 - BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W MCC 409 - BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W CC
407 - PANCREAS, LIVER & SHUNT PROCEDURES W/O CC/MCC 408 - BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W MCC 409 - BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W CC
408 - BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W MCC 409 - BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W CC
409 - BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W CC
410 - BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W/O CC/MCC
411 - CHOLECYSTECTOMY W C.D.E. W MCC
412 - CHOLECYSTECTOMY W C.D.E. W CC
413 - CHOLECYSTECTOMY W C.D.E. W/O CC/MCC
414 - CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W MCC
MS-DRG - TITLE
415 - CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W CC
416 - CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W/O CC/MCC
417 - LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W MCC
418 - LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W CC
419 - LAPAROSCOPIC CHOI ECYSTECTOMY W/O C D E W/O CC/MCC
420 - HEPATOBILIARY DIAGNOSTIC PROCEDURES W MCC
421 - HEPATOBILIARY DIAGNOSTIC PROCEDURES W CC
422 - HEPATOBILIARY DIAGNOSTIC PROCEDURES W/O CC/MCC
423 - OTHER HEPATORII JARY OR PANCREAS O.R. PROCEDURES W.MCC
1423 - OTHER HERATODILIART OR FANGREAS O.R. FROGEDORES W/O COMICO 576 - CKIN COAET \$ /OD DEDDID EVC EOD CKIN HI CED OD CEI HI HI TIS W/ MCC
570 - SKIN GRAFT & OR DEDRID EXC FOR SKIN ULCER OR GELEULITIS WINCC
577 SKIN GRAFT & OR DEDRID ERC FOR SKIN ULCER OR GELLULITIS W CC
570 - SKIN GRAFT &/UR DEDRID EAU FUR SKIN ULUER UR GELLULITIS W/U GG/WIGG
200 - UTHER SKIN, SUBLUT TICS & BREAST PRUC WILL
581 - UTHER SKIN, SUBLUT TISS & BREAST PRUC W/U CC/MCC
619 - U.R. PROCEDURES FOR OBESITY WINCO
620 - U.R. PRUCEDURES FOR OBESITY W CC
621 - O.R. PROCEDURES FOR OBESITY W/O CC/MCC
652 - KIDNEY TRANSPLANT
653 - MAJOR BLADDER PROCEDURES W MCC
654 - MAJOR BLADDER PROCEDURES W CC
655 - MAJOR BLADDER PROCEDURES W/O CC/MCC
656 - KIDNEY & URETER PROCEDURES FOR NEOPLASM W MCC
657 - KIDNEY & URETER PROCEDURES FORNEOPLASM W CC
658 - KIDNEY & URETER PROCEDURES FOR NEOPLASM W/O CC/MCC
659 - KIDNEY & URETER PROCEDURES FOR NON-NEOPLASM W MCC
660 - KIDNEY & URETER PROCEDURES FOR NON-NEOPLASM W CC
661 - KIDNEY & URETER PROCEDURES FOR NON-NEOPLASM W/O CC/MCC
662 - MINOR BLADDER PROCEDURES W MCC
663 - MINOR BLADDER PROCEDURES W CC
MS-DRG - TITLE
664 - MINOR BLADDER PROCEDURES W/O CC/MCC
665 - PROSTATECTOMY W MCC
666 - PROSTATECTOMY W CC
667 - PROSTATECTOMY W/O CC/MCC
668 - TRANSURETHRAL PROCEDURES W MCC
669 - TRANSURETHRAL PROCEDURES W CC
670 - TRANSURETHRAL PROCEDURES W/O CC/MCC
672 - URETHRAL PROCEDURES W/O CC/MCC
673 - OTHER KIDNEY & URINARY TRACT PROCEDURES W MCC
674 - OTHER KIDNEY & URINARY TRACT PROCEDURES W CC

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0367 Post operative wound dehiscence (PDI 11) 675 - OTHER KIDNEY & URINARY TRACT PROCEDURES W/O CC/MCC 707 - MAJOR MALE PELVIC PROCEDURES W CC/MCC 708 - MAJOR MALE PELVIC PROCEDURES W/O CC/MCC 709 - PENIS PROCEDURES W CC/MCC 710 - PENIS PROCEDURES W/O CC/MCC 713 - TRANSURETHRAL PROSTATECTOMY W CC/MCC 714 - TRANSURETHRAL PROSTATECTOMY W/O CC/MCC 715 - OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC FOR MALIGNANCY W CC/MCC 716 - OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC FOR MALIGNANCY W/O CC/MCC 717 - OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXC MALIGNANCY W CC/MCC 718 - OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXC MALIGNANCY W/O CC/MCC 734 - PELVIC EVISCERATION. RAD HYSTERECTOMY & RAD VULVECTOMY W CC/MCC 735 - PELVIC EVISCERATION, RAD HYSTERECTOMY & RAD VULVECTOMY W/O CC/MCC 736 - UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY W MCC 737 - UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY W CC 738 - UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY W/O CC/MCC 739 - UTERINE, ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W MCC 740 - UTERINE.ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W CC 741 - UTERINE, ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W/O CC/MCC AHRQ Quality Indicators Web Site: http://www.qualityindicators.ahrq.gov Pediatric Quality Indicators Technical Specifications Version 4.2-2010 PDI #11 Postoperative Wound Dehiscence Page 16 MS-DRG - TITLE 742 - UTERINE & ADNEXA PROC FOR NON-MALIGNANCY W CC/MCC 743 - UTERINE & ADNEXA PROC FOR NON-MALIGNANCY W/O CC/MCC 744 - D&C, CONIZATION, LAPAROSCOPY & TUBAL INTERRUPTION W CC/MCC 745 - D&C, CONIZATION, LAPAROSCOPY & TUBAL INTERRUPTION W/O CC/MCC 746 - VAGINA, CERVIX & VULVA PROCEDURES W CC/MCC 747 - VAGINA, CERVIX & VULVA PROCEDURES W/O CC/MCC 748 - FEMALE REPRODUCTIVE SYSTEM RECONSTRUCTIVE PROCEDURES 749 - OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES W CC/MCC 750 - OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES W/O CC/MCC 765 - CESAREAN SECTION W CC/MCC 766 - CESAREAN SECTION W/O CC/MCC 767 - VAGINAL DELIVERY W STERILIZATION &/OR D&C 768 - VAGINAL DELIVERY W O.R. PROC EXCEPT STERIL &/OR D&C 769 - POSTPARTUM & POST ABORTION DIAGNOSES W O.R. PROCEDURE 770 - ABORTION W D&C. ASPIRATION CURETTAGE OR HYSTEROTOMY 774 - VAGINAL DELIVERY W COMPLICATING DIAGNOSES MS-DRG - TITLE 775 - VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES 981 - EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W MCC 982 - EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W CC 983 - EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W/O CC/MCC 984 - PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W MCC 985 PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W CC 986 PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W/O CC/MCC 987 - NON-EXTENSIVE O.R. PROC UNRELATED TO PRINCIPAL DIAGNOSIS W MCC 988 - NON-EXTENSIVE O.R. PROC UNRELATED TO PRINCIPAL DIAGNOSIS W CC 989 - NON-EXTENSIVE O.R. PROC UNRELATED TO PRINCIPAL DIAGNOSIS W/O CC/MCC Surgical Class 3 DRGs

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE

USO POST Operative would demiscence (PDI TI)
For discharges using DRGs (before October 1, 2007)
DRG - TITLE
263 - SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W CC
264 - SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W/O CC
439 - SKIN GRAETS FOR INJURIES
442 - OTHER O.R. FROUEDURES FOR INJURIES WICC
443 - OTHER U.R. PROCEDURES FOR INJURIES W/U CC
484 - CRANIUTUMY FUR MULTIPLE SIGNIFICANT TRAUMA
UKG - TITLE
485 - LIMB REATTACHMENT, HIP AND FEMOR PROC FOR MULTIPLE SIGNIFICANT TRAUMA
486 - OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA
504 - EXTEN. BURNS OR FULL THICKNESS BURN W/MV 96+HRS W/SKIN GFT
506 - FULL THICKNESS BURN W SKIN GRAFT OR INHAL INJ W CC OR SIG TRAUMA
507 - FULL THICKNESS BURN W SKIN GRFT OR INHAL INJ W/O CC OR SIG TRAUMA
Surgical Class 3 MS-DRGs
For discharges using MS-DRGs (on or after October 1, 2007)
MS-DRG - TITLE
573 - SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W MCC
MS-DRG - TITLE
574 - SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W CC
Level of Analysis: Facility/ Agency
Type of Measure: Outcome
Data Source: Electronic administrative data/ claims
Measure Steward: Agency for Healthcare Research and Quality 540 Gaither Road Rockville Marvland 20850
Stearing Committee December and the Endergement No.
Steering Committee Recommendation for Endorsement: INO
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Rationale: Did not pass threshold criterion of Importance to Measure and Report; thus, not assessed against remaining criteria. Steering Committee Follow-Up: The measure developer requested that the Steering Committee reconsider its recommendation related to endorsement of measures 0367 and 0368. The Steering Committee re-examined the evidence cited and the clarification offered by the measure developer. Members continued to register concern about: 1) the low rate of wound dehiscence, which has remained stable over a long period; 2) evidence (Hannan, et al. A methodololgy for targeting hospital cases for quality of care record reviews, 1989.) that points to dehiscence for which the fundamental problem is infection; 3) the lack of a standard of care for wound dehiscence prevention or contributing risk factors; and 4) that the rate cannot be reduced due to lack of non-patient specific factors that can be influenced. The overriding concern was that the measure does not provide clinically meaningful, actionable data. 1. Importance to Measure and Report: Y-4; N-17 (1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence) Rationale: The Committee noted that only about 25 percent of wound dehiscence has been demonstrated to have modifiable factors. Twenty-five percent of wound dehiscence is not preventable and the cause in another 41 percent is uncertain; thus, the rationale for the measure singt of patients with a secondary diagnosis code for "other than wound disruptions". The Committee noted that the evidence does not indicate that wound dehiscence is a problem specifically in children and only a small number of patients experience wound dehiscence. 2. Scientific Acceptability of Measure Properties:
Steering Committee Recommendation for Endorsement: <u>No</u> Rationale: Did not pass threshold criterion of Importance to Measure and Report; thus, not assessed against remaining criteria. Steering Committee Follow-Up: The measure developer requested that the Steering Committee reconsider its recommendation related to endorsement of measures 0367 and 0368. The Steering Committee re-examined the evidence cited and the clarification offered by the measure developer. Members continued to register concern about: 1) the low rate of wound dehiscence, which has remained stable over a long period; 2) evidence (Hannan, et al. A methodology for targeting hospital cases for quality of care record reviews, 1989.) that points to dehiscence for which the fundamental problem is infection; 3) the lack of a standard of care for wound dehiscence prevention or contributing risk factors; and 4) that the rate cannot be reduced due to lack of non-patient specific factors that can be influenced. The overriding concern was that the measure does not provide clinically meaningful, actionable data. 1. Importance to Measure and Report: <u>Y-4</u> ; <u>N-17</u> (1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence) Rationale: The Committee noted that only about 25 percent of wound dehiscence has been demonstrated to have modifiable factors. Twenty-five percent of wound dehiscence is not preventable and the cause in another 41 percent is uncertain; thus, the rationale for the measure is not supported by the literature. Also, members were concerned that the evidence for the measure appeared to be based on an analysis of patients with a secondary diagnosis code for "other than wound disruptions". The Committee noted that the disparity data could be improved. Finally, they stated that the ev
Steering Committee Recommendation for Endorsement: <u>No</u> Rationale: Did not pass threshold criterion of Importance to Measure and Report; thus, not assessed against remaining criteria. Steering Committee Follow-Up: The measure developer requested that the Steering Committee reconsider its recommendation related to endorsement of measures 0367 and 0368. The Steering Committee re-examined the evidence cited and the clarification offered by the measure developer. Members continued to register concern about: 1) the low rate of wound dehiscence, which has remained stable over a long period; 2) evidence (Hannan, et al. A methodology for targeting hospital cases for quality of care record reviews, 1989.) that points to dehiscence for which the fundamental problem is infection; 3) the lack of a standard of care for wound dehiscence prevention or contributing risk factors; and 4) that the rate cannot be reduced due to lack of non-patient specific factors that can be influenced. The overriding concern was that the measure does not provide clinically meaningful, actionable data. 1. Importance to Measure and Report: Y-4; N-17 (1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence) Rationale: The Committee noted that only about 25 percent of wound dehiscence has been demonstrated to have modifiable factors. Twenty-five percent of wound dehiscence is on to preventable and the cause in another 41 percent is uncertain; thus, the rationale for the measure is not supported by the literature. Also, members were concerned that the evidence for the measure appeared to be based on an analysis of patients with a secondary diagnosis code for "other than wound disruptions". The Committee noted that the disparity data could be improved. Finally, they stated that the evid
Steering Committee Recommendation for Endorsement: <u>No</u> Rationale: Did not pass threshold criterion of Importance to Measure and Report; thus, not assessed against remaining criteria. Steering Committee Follow-Up: The measure developer requested that the Steering Committee reconsider its recommendation related to endorsement of measures 0367 and 0368. The Steering Committee re-examined the evidence cited and the clarification offered by the measure developer. Members continued to register concern about: 1) the low rate of wound dehiscence, which has remained stable over a long period; 2) evidence (Hannan, et al. <i>A methodololgy for targeting hospital cases for quality of care record reviews</i> , 1989.) that points to dehiscence for which the fundamental problem is infection; 3) the lack of a standard of care for wound dehiscence prevention or contributing risk factors; and 4) that the rate cannot be reduced due to lack of non-patient specific factors that can be influenced. The overriding concern was that the measure does not provide clinically meaningful, actionable data. 1. Importance to Measure and Report: Y-4; N-17 (1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence) Rationale: The Committee noted that only about 25 percent of wound dehiscence has been demonstrated to have modifiable factors. Twenty-five percent of wound dehiscence is not preventable and the cause in another 41 percent is uncertain; thus, the rationale for the measure is not supported by the literature. Also, members were concerned that the evidence for the measure appeared to be based on an analysis of patients with a secondary diagnosis code for "other than wound disruptions". The Committee noted that the disparity data could be improved.
Steering Committee Recommendation of Importance to Measure and Report; thus, not assessed against remaining criteria. Steering Committee Follow-Up: The measure developer requested that the Steering Committee reconsider its recommendation related to endorsement of measures 0367 and 0368. The Steering Committee re-examined the evidence cited and the clarification offered by the measure developer. Members continued to register concern about: 1) the low rate of wound dehiscence, which has remained stable over a long period; 2) evidence (Hannan, et al. A methodology for targeting hospital cases for quality of care record reviews, 1989.) that points to dehiscence for which the fundamental problem is infection; 3) the lack of a standard of care for wound dehiscence prevention or contributing risk factors; and 4) that the rate cannot be reduced due to lack of non-patient specific factors that can be influenced. The overriding concern was that the measure does not provide clinically meaningful, actionable data. 1. Importance to Measure and Report: Y=4, N-17 (1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence) Rationale: The Committee noted that only about 25 percent of wound dehiscence has been demonstrated to have modifiable factors. Twenty-five percent of wound dehiscence is not preventable and the cause in another 41 percent is uncertain; thus, the rationale for the measure is not supported by the literature. Also, members were concerned that the evidence for the measure appeared to be based on an analysis of patients with a secondary diagnosis code for "other than wound disruptions". The Committee noted that the disparity data could be improved. Finally, they stated that the evidence does not indicate that wound dehiscence is a problem specifical

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0367 Post operative wound dehiscence (PDI 11)

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) Rationale:

396

0368 Post operative wound dehiscence (PSI 14)

For More Information: Complete Measure Submission; Meeting/Call Proceedings

Description: Percentage of abdominopelvic surgery cases with reclosure of postoperative disruption of abdominal wall. **Numerator Statement:** Discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM procuedure code for reclosure of postoperative disruption of abdominal wall procedure.

Denominator Statement: All abdominopelvic surgical discharges age 18 and older.

Exclusions: Exclude cases:

• where a procedure for reclosure of postoperative disruption of abdominal wall occurs before or on the same day as the first abdominopelvic surgery procedure

Note: If day of procedure is not available in the input data file, the rate may be slightly lower than if the information was available • where length of stav is less than 2 days

· with any diagnosis or procedure code for immunocompromised state

• MDC 14 (pregnancy, childbirth, and puerperium).

Adjustment/Stratification: risk adjustment method widely or commercially available The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) and covariates for gender, birth weight (500g groups), age in days (29-60, 61-90, 91+), age in years (in 5-year age groups), modified CMS DRG and AHRQ CCS comorbidities. The reference population used in the model is the universe of discharges for states that participate in the HCUP State Inpatient Databases (SID) for the year 2007 (updated annually), a database consisting of 43 states and approximately 6 million pediatric discharges. The expected rate is computed as the sum of the predicted value for each case divided by the number of cases for the unit of analysis of interest (i.e., hospital, state, and region). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference population rate.

Required data elements: CMS Diagnosis Related Group (DRG); CMS Major Diagnostic Category (MDC); patient gender; age in years at admission; International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) principal and secondary diagnosis codes/The user has the option to stratify by gender, birth weight, age in days, age in years (5-year age groups), race / ethnicity, primary payer, and custom stratifiers.

Level of Analysis: Facility/ Agency

Type of Measure: Outcome

Data Source: Electronic administrative data/ claims

Measure Steward: Agency for Healthcare Research and Quality | 540 Gaither Road | Rockville | Maryland | 20850

Steering Committee Recommendation for Endorsement: No

Rationale: Did not pass threshold criterion of Importance to Measure and Report; thus, not assessed against remaining criteria.

Steering Committee Follow-Up:

The measure developer requested that the Steering Committee reconsider its recommendation related to endorsement of measures 0367 and 0368. The Steering Committee re-examined the evidence cited and the clarification offered by the measure developer. Members continued to register concern about: 1) the low rate of wound dehiscence, which has remained stable over a long period; 2) evidence (Hannan, et al. *A methodology for targeting hospital cases for quality of care record reviews*, 1989.) that points to dehiscence for which the fundamental problem is infection; 3) the lack of a standard of care for wound dehiscence prevention or contributing risk factors; and 4) that the rate cannot be reduced due to lack of non-patient specific factors that can be influenced. The overriding concern was that the measure does not provide clinically meaningful, actionable data.

1. Importance to Measure and Report: Y-3; N-18

(1a. Impact; 1b. Performance gap; 1c. Outcome or Evidence)

Rationale: The Committee noted that only about 25 percent of wound dehiscence has been demonstrated to have modifiable factors. Twenty-five percent of wound dehiscence is not preventable and the cause in another 41 percent is uncertain thus the rationale for the measure is not supported by the literature. Also, members were concerned that evidence for measure appeared to be based on an analysis of patients with a secondary diagnosis code for other than wound disruptions. The Committee noted that the disparity data could be improved. Finally, they stated only a very small number of patients experience wound dehiscence. It was noted that as in the case of many safety measures, the volume is often quite small and that the utility of the patient safety indicators is that they often serve as surrogate measures or trigger tools for which data is readily availability. In the case of these measures, comment was made that

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0368 Post operative wound dehiscence (PSI 14)

there is not a significant association with them as marked due to their infrequency of occurrence. Any additional discussion of the measure should be accompanied by data regarding its actual impact.

2. Scientific Acceptability of Measure Properties:

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f. Meaningful differences; 2g. Comparability; 2h. Disparities)

Rationale:

3. Usability:

(3a. Meaningful/useful for public reporting and quality improvement; 3b. Harmonized; 3c. Distinctive or additive value to existing measures)

Rationale:

4. Feasibility:

(4a. Clinical data generated during care process; 4b. Electronic sources; 4c. Exclusions – no additional data source; 4d. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented) Rationale:

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399 ADDITIONAL RECOMMENDATIONS

400 Episode of Care Measurement Framework

- 401 NQF's generic episode of care measurement framework (Figure 1) can be used to conceptualize quality
- 402 performance measures relevant to pre-, intra-, and post-operative surgical care. Phase 1 could represent
- 403 individuals with potential to undergo surgery. Phase 2 could represent patients for whom surgery is
- 404 planned as well as during the intra-operative period and Phase 3 could represent post-operative
- 405 management, follow up and related ongoing care.

406

407 Figure 1. Integrated Framework for Performance Measurement



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427	5.	Cullen, Hall, and Golosinskiy.
428	6.	DeFrances, Lucas and Buie.
429	7.	National Quality Forum (NQF), National Priorities Partnership, Washington, DC: National
430		Quality Forum. Available at www.nationalprioritiespartnership.org. Last accessed October 2010.
431	8.	NQF, National Voluntary Consensus Standards for Cardiac Surgery, Washington, DC: National
432		Quality Forum; 2004. Available at http://qualityforum.org/Projects/c-
433		d/Cardiac_Surgery/Cardiac_Surgery.aspx . Last accessed May 2011.
434	9.	NQF, National Voluntary Consensus Standards for Hospital Care: Specialty Clinician
435		Performance Measures, Washington, DC: National Quality Forum; 2007. Available at
436		http://www.qualityforum.org/Projects/h/Hospital_Care_Specialty_Clinician_Measures/Hospital_
437		CareSpecialty_Clinician_Measures.aspx. Last accessed May 2011.
438	10	NQF, National Voluntary Consensus Standards for Hospital Care 2007: Performance Measures,
439		Washington, DC: National Quality Forum; 2007. Available at
440		http://www.qualityforum.org/Projects/h/Hospital_Care_2007_Additional_Measures/Hospital_Car
441		e_Measures.aspx. Last accessed May 2011.
442	11	NQF, Measure Evaluation Criteria, Washington, DC: National Quality Forum; 2009. Available
443		at http://www.qualityforum.org/WorkArea/linkit.aspx?LinkIdentifier=id&ItemID=43763. Last
444		accessed May 2011.
445	12	. Reserve status is defined as highly credible, reliable and valid measures that have high levels of
446		performance with little opportunity for improvement. These measures meet all of the NQF criteria
447		except for one subcriteria, opportunity for improvement. Performance can be monitored in the

448 future if necessary to ensure that performance does not decline.

APPENDIX A – SPECIFICATIONS FOR THE NATIONAL VOLUNTARY CONSENSUS STANDARDS: SURGERY ENDORSEMENT MAINTENANCE 2010, PHASE II

The following tables present the detailed measure specifications for the recommended consensus standards. All information presented here has been derived directly from the measure developers without modification or alteration (except where measure developers agreed to such modifications) and is current as of September 12, 2011. All proposed voluntary consensus standards are open source, meaning they are fully accessible and disclosed.

0134 Use of internal mammary artery (IMA) in coronary artery bypass graft (CABG)
0300 Cardiac surgery patients with controlled postoperative blood glucose
0127 Preoperative beta blockade
0284 Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the
perioperative period
0117 Beta blockade at discharge
0273 Perforated appendix admission rate (PQI 2)
0265 Hospital transfer/admission
1519 Statin therapy at discharge after lower extremity bypass (LEB) 100
1540 Postoperative stroke or death in asymptomatic patients undergoing carotid endarterectomy 101
1543 Postoperative stroke or death in asymptomatic patients undergoing carotid artery stenting (CAS) 102
0339 RACHS-1 pediatric heart surgery mortality
0340 Pediatric heart surgery volume (PDI 7)
0352 Failure to rescue in-hospital mortality (risk adjusted) 119
0353 Failure to rescue 30-day mortality (risk adjusted)
0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
0515 Ambulatory surgery patients with appropriate method of hair removal
0301 Surgery patients with appropriate hair removal
1550 Hospital-level risk-standardized complication rate (RSCR) following elective primary total hip arthroplasty
(THA) and total knee arthroplasty (TKA)
1551 Hospital-level 30-day all-cause risk-standardized readmission rate (RSRR) following elective primary total
hip arthroplasty (THA) and total knee arthroplasty (TKA)
1536 Cataracts: Improvement in patient's visual function within 90 days following cataract surgery 145
0528 Prophylactic antibiotic selection for surgical patients
0126 Selection of antibiotic prophylaxis for cardiac surgery patients
0264 Prophylactic intravenous (IV) antibiotic timing
0527 Prophylactic antibiotic received within 1 hour prior to surgical incision

	0134 Use of internal mammary artery (IMA) in coronary artery bypass graft (CABG)
Steward	Society of Thoracic Surgeons 633 North Saint Clair Street, Suite 2320 Chicago Illinois 60611
Description	Percentage of patients aged 18 years and older undergoing isolated coronary artery bypass graft (CABG) who received an internal mammary artery (IMA) graft
Туре	Process
Data Source	Electronic Clinical Data: Registry STS Adult Cardiac Surgery Database – Version 2.73 URL Data Collection Form (an updated version will be made available on the STS Website in mid-December of 2010) http://www.sts.org/documents/pdf/ndb2010/STSAdultCVDataCollectionForm2_7_Annotated_20101021.pdf URL http://www.sts.org/documents/pdf/ndb2010/STSAdultCVDataSpecificationsV2_7_20101021.pdf an updated version will be made available on the STS Website in mid-December of 2010

	0134 Use of internal mammary artery (IMA) in coronary artery bypass graft (CABG)
Level	Clinician: Group/Practice, Clinician: Individual, Clinician: Team, Facility, Population: County or City, Population: National, Population: Regional, Population: State
Setting	Hospital/Acute Care Facility
Numerator Statement	Number of patients undergoing isolated coronary artery bypass graft (CABG) who received an internal mammary artery (IMA) graft
Numerator	Time Window:
Details	
	Number of isolated CABG procedures in which IMA Artery Used [IMAArtUs (STS Adult Cardiac Surgery Database Version 2.73)] is marked "Left IMA," "Right IMA," or "Both IMAs"
Denominator Statement	All patients undergoing isolated CABG
Denominator	Female; Male 18 and older
Categories	
Denominator	Time Window: 12 months
Details	
	Number of isolated CABG procedures
	- OnCAB is marked "Yes"
	- (VADProc is marked "No" or "Missing") or (VADProc is marked "Yes, Implanted" and UnplVAD is marked "ves")
	- OCarASDTy is marked "PFO" or "missing"
	 OCarAFibAProc is marked "primarily epicardial" or "missing" and
	- OpValve, VSAV, VSAVPr, ResectSubA, VSMV, VSMVPr, OpTricus, OpPulm, OpONCard, OCarLVA, OCarVSD,
	OCarSVR, OCarCong, OCarTrma, OCarCrTx, OCAoProcType, EndoProc, OCTumor, OCPulThromDis, OCarOthr are all
F uckets	marked no or missing
Exclusions	Lases are removed from the denominator if the patient had a previous CABG prior to the current admission or if IMA was not used and one of the following reasons was provided:
	- Subclavian stenosis
	- Previous cardiac or thoracic surgery
	- Previous mediastinal radiation
	- Emergent or salvage procedure
	- No LAD disease
Exclusion	Patients with previous CABG, identified where PrCAB is marked "yes"
Details	or
	IMA Artery Used (IMAArtUs) is marked "no IMA" and primary reason for no IMA (NoIMARsn) is marked as any of the
	ITOIIOWING:
	- Subclavian stenosis - Previous cardiac or thoracic surgery
	- Previous mediastinal radiation
	- Emergent or salvage procedure
	- No LAD disease
Risk	no risk adjustment necessary
Adjustment	N/A
Stratification	N/A
Type Score	Rate/proportion better quality = higher score
Algorithm	N/A

	0300 Cardiac surgery patients with controlled postoperative blood glucose
Steward	Centers for Medicare & Medicaid Services 7500 Security Boulevard, Mail Stop S3-01-02 Baltimore Maryland 21244- 1850
Description	Cardiac surgery patients with controlled postoperative blood glucose (less than or equal to 180mg/dL) in the timeframe of 18 to 24 hours after Anesthesia End Time.
Туре	Process

	0300 Cardiac surgery patients with controlled postoperative blood glucose
Data Source	Administrative claims, Paper Records Vendor tools or CART (both electronic). CART is available for download free at http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier2&cid=1138900279093 URL
	http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier2&cid=1138900279093 Attachment Inf-4 MIF with draft algorithm 6 8 2011.pdf
Level	Facility, Population: National, Population: Regional
Setting	Hospital/Acute Care Facility
Numerator Statement	Cardiac surgery patients with controlled postoperative blood glucose (less than or equal to ?180mg/dL) in the timeframe of 18 to 24 hours after Anesthesia End Time.
Numerator Details	Time Window: 18-24 hours after Anesthesia End Time. If no blood glucose levels are documented for that time, the timeframe of 12-18 hours after Anesthesia End Time will be evaluated.
	Required data elements: Glucose Allowable values: 1 All values collected between 18 and 24 hours after Anesthesia End Time were = 180 mg/dL. (passes) 2 A single value collected between 18 and 24 hours after Anesthesia End Time was > 180 mg/dL but all other values after the higher value were = 180 mg/dL prior to the end point of 24 hours after Anesthesia End Time. (passes) 3 A single value collected between 18 and 24 hours after Anesthesia End Time was > 180 mg/dL and NO other values after the higher value were = 180 mg/dL prior to the end point of 24 hours after Anesthesia End Time. (fails) 4 No values collected between 18 and 24 hours after Anesthesia End Time were = 180 mg/dL or unable to determine from medical record documentation. (fails) 5 The patient discharged prior to 24 hours after Anesthesia End Time.
Denominator Statement	Cardiac surgery patients with no evidence of prior infection Include patients with an ICD-9-CM Principle Procedure code or ICD-9-CM Other Procedure codes of selected surgeries AND an ICD-9-CM for ICD-9-CM codes Principle Procedure code or ICD-9-CM Other Procedure codes of selected surgeries
Denominator Categories	Female; Male >/= 18 years of age
Denominator Details	Time Window: Inpatient admission to discharge
	Data elements:
	Anesthesia Start Date
	Admission Date
	Olinical Trial
	ICD-9-CM Principal Diagnosis Code
	ICD-9-CM Principal Procedure Code
	Infection Prior to Anesthesia
Exclusions	Excluded Populations Patients less than 18 years of age
	 Fallents who had a principal diagnosis suggestive of preoperative infectious diseases (as defined in Appendix A
	Table 5.09 for ICD-9-CM codes)
	Burn and transplant patients (as defined in Appendix A, Tables 5.14 and 5.15 for ICD-9-CM codes)
	Patients enrolled in clinical trials
	 Patients whose ICD-9-CM principal procedure occurred prior to the date of admission Patients with physician/advanced practice nurse/physician assistant (physician/APN/PA) documented infection prior
	 Patients who discharged prior to 24 hours after Anesthesia End Time.
Exclusion	Data Elements:
Details	Anesthesia Start Date
	Admission Date
	• Birthdate

	0300 Cardiac surgery patients with controlled postoperative blood glucose
	Clinical Trial
	ICD-9-CM Principal Diagnosis Code ICD-9-CM Principal Procedure Code
	Infection Prior to Anesthesia
Risk	no risk adjustment necessary
Adjustment	N/A
Stratification	No stratification
Type Score	Rate/proportion better quality = higher score
Algorithm	The PDF of the draft Measure Information Form is attached, with the algorithm at 2a.29.

	0127 Preoperative beta blockade
Steward	Society of Thoracic Surgeons
Description	Percent of patients aged 18 years and older undergoing isolated CABG who received beta blockers within 24 hours preceding surgery.
Туре	Process
Data Source	Electronic Clinical Data : Registry STS Adult Cardiac Surgery Database – Version 2.73 URL Data Collection Form http://www.sts.org/sites/default/files/documents/STSAdultCVDataCollectionForm2_73_Annotated.pdf URL http://www.sts.org/sites/default/files/documents/STSAdultCVDataSpecificationsV2_73.pdf
Level	Clinician: Group/Practice, Clinician: Individual, Facility, Population: Community, Population: County or City, Population: National, Population: Regional, Population: State
Setting	Hospital/Acute Care Facility
Numerator Statement	Number of patients undergoing isolated CABG who received beta blockers within 24 hours preceding surgery
Numerator Details	Time Window: 24 hours preceding surgery
	Number of isolated CABG procedures in which preoperative beta blockers [MedBeta (STS Adult Cardiac Surgery Database Version 2.73, Sequence number 1710)] is marked "yes"
Denominator Statement	All patients undergoing isolated CABG
Denominator Categories	Female; Male 18 and older
Denominator Details	Time Window: 12 months
Exclusions	Number of isolated CABG procedures excluding cases for which preoperative beta blockers were contraindicated. Isolated CABG is determined as a procedure for which all of the following apply (note: full terms for STS field names are provided in brackets []): - OpCAB [Coronary Artery Bypass] is marked "Yes" - (VADProc [VAD Implanted or Removed] is marked "No" or "Missing") or (VADProc is marked "Yes, Implanted" and UnplVAD [Unplanned VAD Insertion] is marked "yes") - OCarASDTy [Atrial Septal Defect Repair] is marked "PFO" or "missing" - OCarAFibAProc [Atrial Fibrillation Ablation Procedure] is marked "primarily epicardial" or "missing" and - OpValve [Valve Surgery], VSAV [Aortic Valve Procedure], VSAVPr [Aortic Valve Procedure Performed], ResectSubA [Resection of sub-aortic stenosis], VSMV [Mitral Valve Procedure], VSMVPr [Mitral Valve Procedure Performed], OpTricus [Tricuspid Valve Procedure Performed], OpPulm [Pulmonic Valve Procedure Performed], OpONCard [Other Non- Cardiac Procedure], OCarLVA [Left Ventricular Aneurysm Repair], OCarVSD [Ventricular Septal Defect Repair], OCarSVR [Surgical Ventricular Restoration], OCarCong [Congenital Defect Repair], OCarTrma [surgical procedure for an injury due to Cardiac Trauma], OCarCrTx [Cardiac Transplant], OCAoProcType [Aortic Procedure Type], EndoProc [Endovascular Procedure (TEVAR)], OCTumor [resection of an intracardiac tumor], OCPulThromDis [Pulmonary Thromboembolectomy], OCarOthr [other cardiac procedure] are all marked "no" or "missing"
Exclusions	cases are removed from the denominator if preoperative beta blocker was contraindicated.

	0127 Preoperative beta blockade
Exclusion Details	Procedures with preoperative beta blockers [MedBeta (STS Adult Cardiac Surgery Database Version 2.73, Sequence number 1710)] marked as "Contraindicated"
Risk	no risk adjustment necessary
Adjustment	n/a
Stratification	n/a
Type Score	Rate/proportion better quality = higher score
Algorithm	n/a

	0284 Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period
Steward	Centers for Medicare & Medicaid Services 7500 Security Boulevard, Mail Stop S3-01-02 Baltimore Maryland 21244- 1850
Description	Percentage of patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period. To be in the denominator, the patient must be on a beta-blocker prior to arrival. The case is excluded if the patient is not on a beta-blocker prior to arrival, as described below in 2a4.
Туре	Process
Data Source	Administrative claims, Paper Records Vendor tools (electronic) or CART. CART is available for download free at http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier2&cid=1138900279093 URL
	http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier2&cid=1138900279093 URL
	http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier4&cid=1228754600169
Level	Facility, Population: National, Population: Regional
Setting	Hospital/Acute Care Facility
Numerator Statement	Surgery patients on beta blocker therapy prior to admission who receive a beta blocker during the perioperative period
Numerator Details	Time Window: The perioperative period for the currently endorsed measure has been expanded. NOTE: After input from the TEP, there are changes proposed to this measure. The perioperative timeframe will be expanded and the hourly parameters removed. The perioperative period for the SCIP Cardiac measures is defined as the day prior to surgery through postoperative day two (POD 2) with day of surgery being day zero. If the postoperative length of stay = 2 days, the measure evaluates the administration of more than one dose of a beta- blocker: the day prior to or the day of surgery and on postoperative day one (POD 1) or postoperative day two (POD 2) unless reasons for not administering the medication were documented. If the postoperative length of stay was < 2 days, the measure will evaluate the administration of the beta-blocker on the day prior to or the day of surgery only, unless reasons for not administering the medication were documented.
Denominator	All surgery nations on daily beta blocker therapy prior to arrival
Statement	 Data Element Data Collection Question: Is there documentation that the patient was on a daily beta-blocker therapy prior to arrival? Yes/No Notes for Abstraction: If there is documentation that the beta-blocker was taken daily at "home" or is a "current" medication, select "Yes". If a beta-blocker is listed as a home medication without designation of how often or when it is taken, select "Yes". If there is documentation that the beta-blocker is a home/current medication and additional documentation indicates the beta-blocker was not taken daily, e.g., the medication reconciliation form lists a beta-blocker as a home/current medication, but documentation in the nurses notes state "patient denies taking beta-blocker every day", select "No". If there is documentation that the beta-blocker is on a schedule other than daily, select "No". If there is documentation that the beta-blocker was given on a "prn" basis for cardiac or non-cardiac reasons, select "No".
Categories	Time Window: Entire inpatient acute admission
Denominator	

	0284 Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the
	perioperative period
Details	
	Data Elements:
	Admission Date
	Anesthesia Start Date
	Beta-Blocker Current Medication
	Beta-Blocker During Pregnancy
	Birthdate
	Discharge Date
	ICD-9-CM Principal Procedure Code
	Laparoscope Derionerative Death
	Perioperative Dealin
	Reason for Not Authinistening Beta-Diocker-Perioperative
	Sex
Exclusions	Patients less than 18 years of age
	 Patients who have a Length of Stay greater than 120 days
	Patients enrolled in clinical trials
	 Patients whose ICD-9-CM principal procedure occurred prior to the date of admission
	 Patients who expired during the perioperative period
	 Pregnant patients taking a beta-blocker prior to arrival
	 Patients with a documented Reason for Not Administering Beta-Blocker-Perioperative
	Patients with Ventriular Assist Devices or Heart Transplantation
Exclusion	Data Elements:
Details	Beta-Blocker During Pregnancy
2 ottailo	Clinical Trial
	Perionerative Death
	Reason for Not Administering Reta-Blocker-Perionerative
Diak	
Adjustment	I I O HSK dujustitietit heuessal y
Aujustilient	
Stratification	
Type Score	Rate/proportion better quality = higher score
Algorithm	Variable Key: Patient Age, Surgery Days
-	1. Start processing. Run cases that are included in the Surgical Care Improvement Project (SCIP) Initial Patient Population
	and pass the edits defined in the Transmission Data Processing Flow: Clinical through this measure.
	2. Calculate Patient Age. The Patient Age, in years, is equal to the Admission Date minus the Birthdate. Use the month and
	day portion of admission date and birthdate to yield the most accurate age.
	3. Check Patient Age
	a. If Patient Age is less than 18 years, the case will proceed to a Measure Category Assignment of B and will not be in the
	Measure Population. Stop processing.
	b. If Patient Age is greater than or equal to 18 years, continue processing and proceed to Laparoscope.
	4 Check Laparoscope
	a If Lanaroscope is missing the case will proceed to a Measure Category Assignment of X and will be rejected. Stop
	In If Lanaroscone equals 1 or 3, the case will proceed to a Measure Category Assignment of B and will not be in the Measure
	Ponulation Stop processing
	In sparation, cop proceeding.
1	o. In Laparoscope equals 2, continue processing and proceed to chinical trial.
1	U. Under onnitial That In If Clinical Trial is missing, the ease will proceed to a Measure Category Assignment of V and will be rejected. Star
1	a. It control that is missing, the case will proceed to a measure Category Assignment of X and will be rejected. Stop
	processing.
	ID. IT CIINICAL THAT EQUALS YES, THE CASE WILL PROCEED TO A MEASURE CATEGORY ASSIGNMENT OF B and WILL NOT BE IN THE MEASURE
1	Population. Stop processing.
1	c. It Clinical Trial equals No, continue processing and proceed to Anesthesia Start Date.
	6. Check Anesthesia Start Date

0284 Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the
perioperative period
a. If the Anesthesia Start Date is missing, the case will proceed to a Measure Category Assignment of X and will be rejected.
Stop processing.
b. If the Anesthesia Start Date equals Unable To Determine, the case will proceed to a Measure Category Assignment of D
and will be in the Measure Population. Stop processing.
c. If Anesthesia Start Date equals a Non Unable To Determine Value, continue processing and proceed to the Surgery Days
calculation.
7. Calculate Surgery Days. Surgery Days, in days, is equal to the Anesthesia Start Date minus the Admission Date.
8. Check Surgery Days
a. If the Surgery Days is less than zero, the case will proceed to a Measure Category Assignment of B and will not be in the
Measure Population. Stop processing.
b. If the Surgery Days is greater than or equal to zero, continue processing and proceed to Perioperative Death.
9. Check Perioperative Death
a. If Perioperative Death is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop
processing.
b. If Perioperative Death equals Yes, the case will proceed to a Measure Category Assignment of B and will not be in the
Measure Population. Stop processing.
c. If Perioperative Death equals No, continue processing and proceed to Beta-Blocker Current Medication.
10. Check Beta-Blocker Current Medication
a. If the Beta-Blocker Current Medication is missing, the case will proceed to a Measure Category Assignment of X and will
be rejected. Stop processing.
b. If the Beta-Blocker Current Medication equals No, the case will proceed to a Measure Category Assignment of B and will
not be in the Measure Population. Stop processing.
c. If the Beta-Blocker Current Medication equals Yes, continue processing and proceed to Sex.
11. Check Sex
a. If Sex is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing.
b. If Sex equals Female, continue processing and check Beta-Blocker During Pregnancy. 1. If Beta Blacker During Bragnancy is missing, the case will presend to a Measure Category Assignment of X and will be
r. In Beta-Biocker During Pregnancy is missing, the case will proceed to a measure Category Assignment of A and will be
I ejected. Stop processing.
2. If Deta-Diocker During Freghancy equals 1 of 5, the case will proceed to a measure Category Assignment of D and will not the in the Measure Deputation. Step processing
3 If Pote Pleaker During Programmy equals 2 continue processing and proceed to Pote Pleaker Proportive
5. If Deta-Diocker During Freghancy equals 2, continue processing and proceed to Bata Blocker Perioperative.
12 Check Reta-Blocker Perioperative
a If Reta-Blocker Perionerative is missing the case will proceed to a Measure Category Assignment of X and will be rejected
Ston processing
b. If Reta-Blocker Perioperative equals Yes, the case will proceed to a Measure Category Assignment of F and will be in the
Numerator Population. Stop processing
c. If Beta-Blocker Perioperative equals No. continue processing and check Reason for Not Administering Beta-Blocker
Perioperative.
13. Check Reason for Not Administering Beta-Blocker Perioperative
a. If Reason for Not Administering Beta-Blocker Perioperative is missing, the case will proceed to a Measure Category
Assignment of X and will be rejected. Stop processing.
b. If Reason for Not Administering Beta-Blocker Perioperative equals Yes, the case will proceed to a Measure Category
Assignment of B and will not be in the Measure Population. Stop processing.
c. If Reason for Not Administering Beta-Blocker Perioperative equals No, the case will proceed to a Measure Category
Assignment of D and will be in the Measure Population. Stop processing.

	0117 Beta blockade at discharge
Steward	Society of Thoracic Surgeons 633 North Saint Clair Street, Suite 2320 Chicago Illinois 60611
Description	Percent of patients aged 18 years and older undergoing isolated CABG who were discharged on beta blockers
Туре	Process
Data Source	Registry data STS Adult Cardiac Surgery Database – Version 2.73 URL http://www.sts.org/sites/default/files/documents/STSAdultCVDataCollectionForm2_73_Annotated.pdf URL

	0117 Beta blockade at discharge
	http://www.sts.org/sites/default/files/documents/STSAdultCVDataSpecificationsV2_73.pdf
Level	Clinicians: Group, Facility/Agency, Population: Counties or cities, Population: National, Population: Regional/network, Population: states
Setting	Hospital
Numerator Statement	Number of patients undergoing isolated CABG who were discharged on beta blockers
Numerator Details	Time Window:
	Number of isolated CABG procedures in which discharge beta blockers [DCBeta (STS Adult Cardiac Surgery Database Version 2.73)] is marked "yes"
Denominator Statement	All patients undergoing isolated CABG
Denominator Categories	Female; Male 18 and older
Denominator Details	Time Window: 12 months
	 Number of isolated CABG procedures excluding cases with in-hospital monality of cases for which discharge beta blocker use was contraindicated. Isolated CABG is determined as a procedure for which all of the following apply (note: full terms for STS field names are provided in brackets []): OpCAB [Coronary Artery Bypass] is marked "Yes" (VADProc [VAD Implanted or Removed] is marked "No" or "Missing") or (VADProc is marked "Yes, Implanted" and UnpIVAD [Unplanned VAD Insertion] is marked "yes") OCarASDTy [Atrial Septal Defect Repair Type] is marked "PFO" or "missing" OCarAFibAProc [Atrial Fibrillation Ablation Procedure] is marked "primarily epicardial" or "missing" and OpValve [Valve Surgery], VSAV [Aortic Valve Procedure], VSAVPr [Aortic Valve Procedure Performed], ResectSubA [Resection of sub-aortic stenosis], VSMV [Mitral Valve Procedure], VSMVPr [Mitral Valve Procedure Performed], OpTricus [Tricuspid Valve Procedure Performed], OpPulm [Pulmonic Valve Procedure Performed], OpONCard [Other Non-Cardiac Procedure], OCarLVA [Left Ventricular Aneurysm Repair], OCarVSD [Ventricular Septal Defect Repair], OCarSVR [Surgical Ventricular Restoration], OCarCong [Congenital Defect Repair], OCarTrma [surgical procedure for an injury due to Cardiac Trauma], OCarCrTx [Cardiac Transplant], OCAoProcType [Aortic Procedure Type], EndoProc [Endovascular Procedure] are all marked "no" or "missing"
Exclusions	Cases are removed from the denominator if there was an in-hospital mortality or if discharge beta blocker was contraindicated.
Exclusion Details	Mortality Discharge Status (MtDCStat), Mortality Date (MtDate), and Discharge Date (DischDt) indicate an in-hospital mortality; discharge beta blocker (DCBeta) marked as "Contraindicated"
Risk Adjustment	no risk adjustment necessary N/A
Stratification	
Type Score	Rate/proportion better quality = higher score
Algorithm	

	0273 Perforated appendix admission rate (PQI 2)
Steward	Agency for Healthcare Research and Quality 540 Gaither Road Rockville Maryland 20850
Description	Percentage of admissions for appendicitis within county with perforated appendix.
Туре	Outcome
Data Source	Electronic administrative data/claims The data source is hospital discharge data such as the HCUP State Inpatient Databases (SID) or equivalent using UB-04 coding standards. The data collection instrument is public-use AHRQ QI software available in SAS or Windows versions. URL None http://www.qualityindicators.ahrq.gov/software.htm None URL

	0273 Perforated appendix admission rate (PQI 2)
	http://www.qualityindicators.ahrq.gov/downloads/winqi/AHRQ_QI_Windows_Software_Documentation_V41a.pdf None
Level	Population: Counties or cities, Population: states
Setting	Ambulatory Care: Office
Numerator	All discharges with ICD-9-CM diagnosis code for perforations or abscesses of appendix in any field among cases meeting the
Statement	inclusion rules for the denominator.
Numerator	Time Window: Time window can be determined by user, but is generally a calendar year.
Details	
	All discharges with ICD-9-CM diagnosis code for perforations or abscesses of appendix in any field among cases meeting the
	inclusion rules for the denominator.
	Include ICD-9-CM diagnosis codes:
	5/01
	ABSCESS OF APPENDIX
	Exclude cases:
	 transfer from a hospital (different facility)
	 transfer from a skilled Nursing Facility (SNF) or Intermediate Care Facility (ICF)
	transfer from another health care facility
	MDC 14 (pregnancy, childbirth, and puerperium)
Denominator	All non-maternal discharges of age 18 years and older in Metro Area1 or county with diagnosis code for appendicitis in any
Statement	field.
Denominator	Female; Male 18 and older
Categories	
Denominator	Time Window: Calendar year
Details	All non-maternal discharges of ago 19 years and older in Matro Area1 or county with discussis and for appendicitie in any
	Field
	Include ICD-9-CM diagnosis codes (population at risk):
	5400
	AC APPEND W PERITONITIS
	5401
	ABSCESS OF APPENDIX
	541
	APPENDICITIS NOS
Exclusions	Not applicable.
Exclusion	Not applicable
Details	
Risk	risk adjustment method widely or commercially available
Adjustment	The predicted value for each case is computed using a logistic regression model and covariates for gender and age in years
	(in 5-year age groups). The reference population used in the model is the universe of discharges for states that participate in
	the HCUP State Inpatient Databases (SID) for the year 2007 (updated annually), a database consisting of 43 states and
	approximately 30 million adult discharges. The expected rate is computed as the sum of the predicted value for each case
	unded by the number of cases for the unit of analysis of interest (i.e., county, state, and region). The fisk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference
	computed using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference
	URL
	http://www.qualityindicators.ahrq.gov/downloads/pqi/PQI%20Risk%20Adjustment%20Tables%20(Version%204%202).pdf
Stratification	Observed rates may be stratified by gender, age (5-year age groups), race / ethnicity.
Type Score	Rate/proportion better quality = lower score
Algorithm	Each indicator is expressed as a rate is defined as outcome of interest / population at risk or numerator / denominator. The
Algorithm	

	0273 Perforated appendix admission rate (PQI 2)
	AHRQ Quality Indicators (AHRQ QI) software performs five steps to produce the rates. 1) Discharge-level data is used to mark inpatient records containing the outcome of interest and 2) the population at risk. For provider indicators, the population at risk is also derived from hospital discharge records; for area indicators, the population at risk is derived from U.S. Census data. 3) Calculate observed rates. Using output from steps 1 and 2, rates are calculated for user-specified combinations of stratifiers. 4) Calculate expected rates. Regression coefficients from a reference population database are applied to the discharge records and aggregated to the provider or area level. 5) Calculate risk-adjusted rate. Use the indirect standardization to account for case-mix. 6) Calculate smoothed rate. A Univariate shrinkage factor is applied to the risk-adjusted rates. The shrinkage estimate reflects a reliability adjustment unique to each indicator. Full information on
L	calculation algorithms and specifications can be found at http://qualityindicators.ahrq.gov/PQI_download.htm

	0265 Hospital transfer/admission
Steward	ASC Quality Collaboration 5686 Escondida Blvd S St. Petersburg Florida 33715
Description	Rate of ASC admissions requiring a hospital transfer or hospital admission upon discharge from the ASC
Туре	Outcome
Data Source	Paper Records ASC medical records, as well as incident/occurrence reports, and variance reports may serve as data sources. No specific collection instrument is required although the ASC Quality Collaboration has developed a sample data collection instrument that may be used as desired. Facilities may use any collection instrument that allows tracking of all hospital transfers/admissions upon discharge. URL Not needed http://ascquality.org/documents/ASCQualityCollaborationImplementationGuide.pdf Not needed URL http://ascquality.org/documents/ASCQualityCollaborationGuide.pdf Not needed URL
Level	Facility
Setting	Ambulatory Care: Ambulatory Surgery Center (ASC)
Numerator Statement	Ambulatory surgical center (ASC) admissions requiring a hospital transfer or hospital admission upon discharge from the ASC.
Numerator Details	Time Window: In-facility, upon discharge from the ASC DEFINITIONS: Admission: completion of registration upon entry into the facility Hospital transfer or hospital admission: any transfer or admission from an ASC directly to an acute care hospital, including a hospital emergency room Discharge: occurs when the patient leaves the confines of the ASC
Denominator Statement	All ASC admissions
Denominator Categories	Female; Male All ages
Denominator Details	Time Window: In-facility, upon discharge from the ASC DEFINITIONS: Admission: completion of registration upon entry into the facility
Exclusions	None
Exclusion Details	Not applicable
Risk Adjustment	no risk adjustment necessary Not applicable
Stratification	Not stratified
Type Score	Rate/proportion better quality = lower score
Algorithm	The number of admissions experiencing a hospital transfer/admission upon discharge is divided by the number of ASC admissions during the reporting period, yielding the rate of hospital transfers/admissions upon discharge for the reporting period.

1519 Statin therapy at discharge after lower extremity bypass (LEB)

	1519 Statin therapy at discharge after lower extremity bypass (LEB)
Steward	Society for Vascular Surgery 633 N. Saint Clair St., 22nd Floor Chicago Illinois 60611
Description	Percentage of patients aged 18 years and older undergoing infrainguinal lower extremity bypass who are prescribed a statin medication at discharge. This measure is proposed for both hospitals and individual providers.
Туре	Process
Data Source	Electronic Clinical Data: Registry The Society for Vascular Surgery Vascular Quality Initiative Registry The Vascular Study Group of New England Registry Attachment Infra-Inquinal Bynass v1 9 vis Attachment LEB defs v 01 09 doc
ا میما	Clinician: Group/Practice Clinician: Individual Eacility
Setting	Hospital/Acute Care Facility
Numerator	Patients undergoing infrainguinal lower extremity bypass who are prescribed a statin medication at discharge
Statement	
Numerator Details	Time Window: Since hospitals have sufficient annual volume to generate accurate reporting levels, these are proposed for reporting every 12 months for hospital. Since surgeons have lower individual volume, we recommend annual reporting of the last 50 consecutive procedures, which may span more than one year, with suppression if < 10 procedures (ie, reported as too low volume to report).
	ANY registry that includes anatomic details or CPT procedure codes is required to identify patients for numerator inclusion. The Society for Vascular Surgery Vascular Quality Initiative (SVS VQI) and the Vascular Study Group of New England (VSGNE)are examples of registries capture detailed anatomic information, but the measure is not limited to these registries. Infrainguinal lower extremity bypass is defined as a bypass beginning at or below the external iliac artery and extending into the ipsilateral leg. It includes procedures with CPT codes 35656, 35556, 35583, 35666, 35566, 35585, 35671, 35571, 35587. The numerator is calculated as the number of patients age 18 and over undergoing such a procedure who are prescribed a statin medication at the time of discharge, which is also captured in the above registries.
Denominator Statement	All patients aged 18 years and older undergoing lower extremity bypass as defined above who are discharged alive, excluding those patients who are intolerant to statins.
Denominator Categories	Female; Male 18 years or older
Denominator Details	Time Window: Since hospitals have sufficient annual volume to generate accurate reporting levels, these are proposed for reporting every 12 months for hospital. Since surgeons have lower individual volume, we recommend annual reporting of the last 50 consecutive procedures, which may span more than one year, with suppression if < 10 procedures (ie, reported as too low volume to report). ANY registry that includes anatomic details or CPT procedure codes is required to identify patients for denominator inclusion. The Society for Vascular Surgery Vascular Quality Initiative and the Vascular Study Group of New England are examples of registries that capture detailed anatomic information, but the measure is not limited to these registries. Infrainguinal lower extremity bypass is defined as a bypass beginning at or below the external iliac artery and extending into the ipsilateral leg. It includes procedures with CPT codes 35656, 35556, 35583, 35666, 35566, 35585, 35671, 35571, 35587. Only patients who are discharged alive are included in the denominator, and patients who are intolerant to statins are excluded, as described below.
Exclusions	Chart documentation that patient was not an eligible candidate for statin therapy due to known drug intolerance, or patient died before discharge.
Exclusion Details	Chart documentation that patient was not an eligible candidate for statin therapy due to known drug intolerance, or patient died before discharge. These data are captured in the SVS VQI and VSGNE registries.
Risk Adjustment	no risk adjustment necessary NA
Stratification	Not required
Type Score	Rate/proportion better quality = higher score
Algorithm	All patients age 18 and older undergoing infrainguinal LEB who were prescribed statin at discharge divided by (all patients over 18 undergoing infrainguinal LEB minus those intolerant to statins minus those who died before discharge).

	1540 Postoperative stroke or death in asymptomatic patients undergoing carotid endarterectomy
Steward	Society for Vascular Surgery 633 N. Saint Clair St., 22nd Floor Chicago Illinois 60611

	1540 Postoperative stroke or death in asymptomatic patients undergoing carotid endarterectomy
Description	Percentage of patients age 18 or older without carotid territory neurologic or retinal symptoms within the one year immediately preceding carotid endarterectomy (CEA) who experience stroke or death following surgery while in the hospital. This measure is proposed for both hospitals and individual surgeons.
Туре	Outcome
Data Source	Electronic Clinical Data : Registry Society for Vascular Surgery Vascular Quality Initiative Registry Vascular Study Group of New England Registry Attachment Carotid_Endarterectomy_CB_v1.9.xlsx Attachment CEA defs v.01.09.doc
Level	Clinician: Group/Practice, Clinician: Individual, Facility
Setting	Hospital/Acute Care Facility
Numerator Statement	Patients age 18 or older without preoperative carotid territory neurologic or retinal sympotoms within the one year immediately preceding CEA who experience stroke or death during their hospitalization following carotid endarterectomy
Numerator Details	Time Window: Since hospitals have sufficient annual volume to generate accurate reporting levels, these are proposed for reporting every 12 months for hospital. Since surgeons have lower individual volume, we recommend annual reporting of the last 50 consecutive procedures, which may span more than one year, with suppression if < 10 procedures (ie, reported as too low volume to report). ANY registry that includes hospitalization details and symptom status within 120 days is required to identify patients for
	numerator inclusion. The Society for Vascular Surgery Vascular Quality Initiative (SVS VQI) and the Vascular Study Group of New England (VSGNE) are examples of registries that record such information, but the measure is not limited to these registries. Patients who were asymptomatic within one year of the CEA(CPT code 37215) who died or experienced postoperative inhospital stroke are included.
Denominator Statement	Asymptomatic patients (based on NASCET criteria) on the within one year of CEA
Denominator Categories	Female; Male 18 years or older
Denominator Details	Time Window: Since hospitals have sufficient annual volume to generate accurate reporting levels, these are proposed for reporting every 12 months for hospital. Since surgeons have lower individual volume, we recommend annual reporting of the last 50 consecutive procedures, which may span more than one year, with suppression if < 10 procedures (ie, reported as too low volume to report).
	ANY registry that includes hospitalization details and symptom status within 120 days is required to identify patients for denominator inclusion. The Society for Vascular Surgery Vascular Quality Initiative (SVS VQI) and the Vascular Study Group of New England (VSGNE) are examples of registries that record such information, but the measure is not limited to these registries. Patients who were asymptomatic within one year of the CAS (CPT code 37215)are included.
Exclusions	Patients with neurologic symptoms within one year of surgery
Exclusion Details	Patients with NASCET criteria neurologic symptoms (transient ischemic attack, amaurosis, or stroke) within the one year immediately proceeding CEA
Risk Adjustment	no risk adjustment necessary See "Scientific Acceptablility" section for rationale
Stratification	Not required
Type Score	Rate/proportion better quality = lower score
Algorithm	Asymptomatic patients undergoing CEA who experience inhospital stroke or death/all asymptomatic patients undergoing CEA

	1543 Postoperative stroke or death in asymptomatic patients undergoing carotid artery stenting (CAS)
Steward	Society for Vascular Surgery 633 N. Saint Clair St., 22nd Floor Chicago Illinois 60611
Description	Percentage of patients 18 years of age or older without carotid territory neurologic or retinal symptoms within 120 days immediately proceeding carotid angioplasty and stent (CAS) placement who experience stroke or death during their hospitalization for this procedure. This measure is proposed for both hospitals and individual interventionalists.
Туре	Outcome
Data Source	Electronic Clinical Data: Registry Society for Vascular Surgery Vascular Quality Initiative Registry Vascular Study Group of New England Registry

	1543 Postoperative stroke or death in asymptomatic patients undergoing carotid artery stenting (CAS)
	Attachment Carotid_Artery_Stent_CB_v_1.9.xlsx Attachment CAS defs v.01.09.doc
Level	Clinician: Group/Practice, Clinician: Individual, Facility
Setting	Hospital/Acute Care Facility
Numerator Statement	Patients over age 18 without preoperative carotid territory neurologic or retinal sympotoms within one year of their procedure who experience stroke or death during their hospitalization following elective carotid artery angioplasty and stent placement
Numerator Details	Time Window: Since hospitals have sufficient annual volume to generate accurate reporting levels, these are proposed for reporting every 12 months for hospital. Since surgeons have lower individual volume, we recommend annual reporting of the last 50 consecutive procedures, which may span more than one year, with suppression if < 10 procedures (ie, reported as too low volume to report).
	ANY registry that includes hospitalization details and symptom status within 120 days is required to identify patients for numerator inclusion. The Society for Vascular Surgery Vascular Quality Initiative (SVS VQI) and the Vascular Study Group of New England (VSGNE) are examples of registries that record such information, but the measure is not limited to these registries. Patients who were asymptomatic within one year of the CAS (CPT code 37215) who died or had a stroke recorded in the registry during that admission.
Denominator Statement	Patients over age 18 without preoperative carotid territory neurologic or retinal symptoms within one year immediately preceding carotid artery stenting
Denominator Categories	Female; Male Over 18
Denominator Details	Time Window: Since hospitals have sufficient annual volume to generate accurate reporting levels, these are proposed for reporting every 12 months for hospital. Since surgeons have lower individual volume, we recommend annual reporting of the last 50 consecutive procedures, which may span more than one year, with suppression if < 10 procedures (ie, reported as too low volume to report).
	ANY registry that includes hospitalization details and symptom status within one year is required to identify patients for numerator inclusion. The Society for Vascular Surgery Vascular Quality Initiative (SVS VQI) and the Vascular Study Group of New England (VSGNE) are examples of registries that record such information, but the measure is not limited to these registries. Patients who were asymptomatic within one year of the CAS (CPT code 37215) are included.
Exclusions	Exclude patients with neurologic symptoms within one year of procedure
Exclusion Details	Patients with NASCET criteria neurologic symptoms (transient ischemic attack, amaurosis, or stroke) within the one year immediately proceeding CAS
Risk Adjustment	no risk adjustment necessary See "Scientific Acceptablility" section for rationale
Stratification	Not required
Type Score	Rate/proportion better quality = lower score
Algorithm	Number of asymptomatic patients undergoing CAS who have in hospital stroke or death / Number of asymptomatic patients undergoing CAS

	0339 RACHS-1 pediatric heart surgery mortality
Steward	Agency for Healthcare Research and Quality
Description	Risk-adjusted rate of in-hospital death for pediatric cases undergoing surgery for congenital heart disease, along with ratio of observed to expected in-hospital mortality rates.
Туре	Outcome
Data Source	Administrative claims The data source is hospital discharge data such as the HCUP State Inpatient Databases (SID) or equivalent using UB-04 coding standards. The data collection instrument is public-use AHRQ QI software available in SAS or Windows versions. URL None http://qualityindicators.ahrq.gov/Software/Default.aspx None URL http://qualityindicators.ahrq.gov/Downloads/Software/WinQI/V42/AHRQ_QI_Windows_Software_Documentation_V41a.pdf None
Level	Facility
Setting	Hospital/Acute Care Facility
	0339 RACHS-1 pediatric heart surgery mortality
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Numerator Statement	Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator with a code of pediatric heart surgery with ICD-9-CM diagnosis of congenital heart disease in any field.
Numerator Details	Time Window: Time window can be determined by user, but is generally a calendar year.
	Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator with a code of pediatric heart surgery with ICD-9-CM diagnosis of congenital heart disease in any field.
Denominator Statement	Discharges under age 18 with ICD-9-CM procedure codes for congenital heart disease (1P) in any field or non-specific heart surgery (2P) in any field with ICD-9-CM diagnosis of congenital heart disease (2D) in any field.
Denominator Categories	Female; Male Age less than 18 years
Denominator Details	Time Window: Time window can be determined by user, but is generally a calendar year.
Details	Discharges under age 18 with ICD-9-CM procedure codes for congenital heart disease (1P) or non-specific heart surgery (2P) with ICD-9-CM diagnosis of congenital heart disease (2D) in any field. Congenital heart disease procedures (1P): 3500 CLOSED VALVOTOMY NOS
	CLOSED AORTIC VALVOTOMY 3502
	CLOSED MITRAL VALVOTOMY 3503
	CLOSED PULMON VALVOTOMY 3504
	CLOSED TRICUSP VALVOTOMY 3510 OPEN VALVULOPLASTY NOS
	3511 OPN AORTIC VALVULOPLASTY
	3512 OPN MITRAL VALVULOPLASTY
	3513 OPN PULMON VALVULOPLASTY
	3514 OPN TRICUS VALVULOPLASTY 2520
	REPLACE HEART VALVE NOS
	REPLACE AORT VALV-TISSUE
	REPLACE AORTIC VALVE NEC 3523
	REPLACE MITR VALV-TISSUE 3524
	REPLACE MITRAL VALVE NEC 3525
	REPLACE PULM VALV-TISSUE 3526
	REPLACE PULMON VALVE NEC 3527
	REPLACE TRIC VALV-TISSUE 3528
	REPLACE TRICUSP VALV NEC 3531
	PAPILLARY MUSCLE OPS

0339 RACHS-1 pediatric heart surgery mortality
3532
CHORDAE TENDINEAE OPS
3533
3534
3535
2541
ENLARGE EXISTING SEP DEF
UREATE SEPTAL DEFECT
PRUSTH REP HRT SEPTA NUS
PROS REP ATRIAL DEF-OPN
PROS REPAIR ATRIA DEF-CL
3553
PROST REPAIR VENTRIC DEF
3554
PROS REP ENDOCAR CUSHION
3560
GRFT REPAIR HRT SEPT NOS
3561
GRAFT REPAIR ATRIAL DEF
3562
GRAFT REPAIR VENTRIC DEF
3563
GRFT REP ENDOCAR CUSHION
3570
HEART SEPTA REPAIR NOS
3571
ATRIA SEPTA DEF REP NEC
3572
VENTR SEPTA DEF REP NEC
3573
ENDOCAR CUSHION REP NEC
3581
TOT REPAIR TETRAL FALLOT
3582
TOTAL REPAIR OF TAPVC
3583
TOT REP TRUNCUS ARTERIOS
3584
TOT COR TRANSPOS GRT VES
3591
INTERAT VEN RETRN TRANSP
3592
CONDUIT RT VENT-PUL ART
3593
CONDUIT LEFT VENTR-AORTA
3594

0339 RACHS-1 pediatric heart surgery mortality
CONDUIT ARTIUM-PULM ART
3595
HEART REPAIR REVISION
3598
OTHER HEART SEPTA OPS
3599
OTHER OP ON HRT VALVES
3699
OTHER OPERATIONS ON VESSEL OF HEART
3733 IEVERION OF DESTRUCTION OF OTHER LEGION OF TROUF OF HEART
12726
19790 IEXCISION OR DESTRUCTION OF LEFT ATRIAL APPENDAGE (LAA) OCT08-
375
HEART TRANSPLANTATION (invalid as of OCT03)
3751
HEART TRANSPLANTATION OCT03-
3752
IMPLANT TOT REP HRT SYS OCT03-
390
SYSTEMIC-PULM ART SHUNT
CAVAL-PULMON ART ANASTOM
INON-Specific cardiac procedures (2P):
DESECTION OF ARDOMINAL AORTA WITH ANASTOMOSIS
3835
THOR VESSEL RESECT/ANAST
3844
RESECTION OF ABDOMINAL AORTA WITH REPLACEMENT
3845
RESECT THORAC VES W REPL
3864
OTHER EXCISION OF ABDOMINAL AORTA
13885
OCCLUDE THORACIC VES NEC
3949
OTHER REVISION OF VASCULAR PROCEDURE
3956
REPAIR OF BLOOD VESSEL WITH TISSUE PATCH GRAFT
3957
REPAIR OF BLOOD VESSEL WITH SYNTHETIC PATCH GRAFT
REPAIR OF BLOOD VESSEL WITH UNSPECIFIED TYPE OF PATCH GRAFT
KEPAIK UF VEDDEL NEU
74510
COMPL TRANSPOS GREAT VES

	0339 RACHS-1 pediatric heart surgery mortality
	74511
	DOUBLE OUTLET RT VENTRIC
	74512
	CORRECT TRANSPOS GRT VES
	74519
	TRANSPOS GREAT VESS NEC
	7452
	TETRALOGY OF FALLOT
	7453
	7454
	VENTRICULAR SEPT DEFECT
	7455
	SECUNDUM ATRIAL SEPT DEE
	74560
	ENDOCARD CUSHION DEF NOS
	74561
	OSTIUM PRIMUM DEFECT
	74569
	ENDOCARD CUSHION DEF NEC
	7457
	COR BILOCULARE
	7458
	SEPTAL CLOSURE ANOM NEC
	7459
	SEPTAL CLOSURE ANOM NOS
	74600
	PULMONARY VALVE ANOM NOS
	74601
	CONG PULMON VALV ATRESIA
	74602
	CONG PULMON VALVE STENOS
	PULMONARY VALVE ANOM NEC
	EDSTEIN S ANOMALT
	7/65
	CONGEN MITRAL STENOSIS
	7466
	7467
	HYPOPIAS LEET HEART SYND
ļ	74681
ļ	CONG SUBAORTIC STENOSIS
	74682
	COR TRIATRIATUM
ļ	74683
	INFUNDIB PULMON STENOSIS
	74684
1	

	0339 RACHS-1 pediatric heart surgery mortality
-	OBSTRUCT HEART ANOM NEC
	74685
	CORONARY ARTERY ANOMALY
	74687
	ICONG HEADT ANOMALY NOS
	17470
	PATENT DUCTUS ARTERIOSUS
	74710
	COARCTATION OF AORTA
	74711
	INTERRUPT OF AORTIC ARCH
	74720
	CONG ANOM OF AORTA NOS
	ANOMALIES OF AURTIC ARCH
	AORTIC ATRESIA/STENOSIS
	74729
	ICONG ANOM OF AORTA NEC
	7473
	PULMONARY ARTERY ANOM
	74740
	GREAT VEIN ANOMALY NOS
	ITOT ANOM PULM VEN CONNEC
	7/7/19
	IGREAT VEIN ANOMALY NEC
Frequesions	
Exclusions	MDC 14 (pregnancy, childbirth and pueperium)
	• with transcatheter interventions (either 3AP, 3BP, 3CP, 3DP, 3EP with 3D, or 3FP) as single cardiac procedures, performed
	without bypass (5P) but with catheterization (6P)
	 with septal defects (4P) as single cardiac procedures without bypass (5P)
	 with diagnosis of ASD or VSD (5D) with PDA as the only cardiac procedure
	• heart transplant (7P)
	• premature infants (4D) with PDA closure (3D and 3EP) as only cardiac procedure;
	• age less than or equal to 30 days with PDA closure as only cardiac procedure
	(VEAR=missing) or principal diagnosis (DX1 =missing)
	• transferring to another short-term hospital (DISP=2)
	• neonates with birth weight less than 500 grams (Birth Weight Category 1)
Exclusion	Exclude cases:
Details	MDC 14 (pregnancy, childbirth and pueperium)
	• with transcatheter interventions (either 3AP, 3BP, 3CP, 3DP, 3EP with 3D, or 3FP) as single cardiac procedures, performed
	without bypass (5P) but with catheterization (6P)
	 with septal defects (4P) as single cardiac procedures without bypass (5P)
	• with diagnosis of ASD or VSD (5D) with PDA as the only cardiac procedure
	• heart transplant (/P)
	• premature infants (4D) with PDA closure (3D and 3EP) as only cardiac procedure;
	* age less than of equal to 50 days with PDA closure as only cardiac procedure

0339 RACHS-1 pediatric heart surgery mortality
• missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year
(YEAR=missing) or principal diagnosis (DX1 =missing)
transferring to another short-term hospital (DISP=2)
reonates with birth weight less than 500 grams (Birth Weight Category 1)
A neonate is defined as any discharge with age in days at admission between zero and 28 days (inclusive). If age in days is
missing, then a neonate is defined as an admission type of newborn (SID ATYPE=4) OR an ICD-9-CM code for either in-
hospital live high or neonate observation and evaluation
Newborn in Hosnital Live Birth Codes
SINGLE LB IN-HOSP W/O CS OCT05-
V2100
1 WIN-WATE LB-RUSP W/U US UU103-
TWIN-MATE LB-IN HUS W US UCTUS-
TWIN-MATE SB-HOSP W/O CS OCT05-
V3201
I WIN-MATE SB-HOSP W CS OCT05-
V3300
TWIN-NOS-IN HOSP W/O CS OCT05-
V3301
TWIN-NOS-IN HOSP W CS OCT05-
V3400
OTH MULT LB-HOSP W/O CS OCT05-
V3401
OTH MULT LB-IN HOSP W CS OCT05-
V3500
OTH MULT SB-HOSP W/O CS OCT05-
V3501
OTH MULT SB-IN HOSP W CS OCT05-
V3600
MULT LB/SB-IN HOS W/O CS OCT05-
V3601
MULT LB/SB-IN HOSP W CS OCT05-
V3700
MULT BRTH NOS-HOS W/O CS OCT05-
V3701
MULT BIRTH NOS-HOSP W CS OCT05-
V3900
LIVEBORN NOS-HOSP W/O CS OCT05-
V3901
LIVEBORN NOS-HOSP W CS OCT05-
Neonate Observation and Evaluation codes:
V290
NB OBSRV SUSPCT INFECT
V291
NB OBSRV SUSPCT NEURLGCL
V292
OBSRV NB SUSPC RESP COND
V293
NB OBS GENETC/METABL CND
V298
NB OBSRV OTH SUSPCT COND

0339 RACHS-1 pediatric heart surgery mortality
V299
NB OBSRV UNSP SUSPCT CND
Less than 500 grams - Birth Weight Category 1
76401
LIGHT-FOR-DATES <500G
76411
LT-FOR-DATE W/MAL <500G
76421
FETAL MALNUTRITION <500G
IFET GROWTH RETARD <500G
IEXTREME IMMATUR < 5000G
V2131
I OW BIRTHWIT STATUS <500C
Closed heart valvotomy (3AP):
3500
CLOSED HEART VALVOTOMY, UNSPECIFIED VALUE
3501
CLOSED HEART VALVOTOMY, AORTIC VALUE
3502
CLOSED HEART VALVOTOMY, MITRAL VALUE
3503
CLOSED HEART VALVOTOMY, PULMONARY VALUE
3504
CLOSED HEART VALVOTOMY, TRICUSPID VALUE
Atrial septal enlargement (3BP)
1334 I IENI ADCEMENT OF EVICTING ATDIAL CEDTAL DEFECT
13542
ICREATION OF SEPTAL DEFECT IN HEART
Atrial sental defect renair (3CP)
3551
REPAIR OF ATIAL SEPTAL DEFECT WITH PROSTHESIS. OPEN TECHNIQUE
3571
OTHER AND UNSPECIFIED REPAIR OF ATRIAL SEPTAL DEFECT
Ventricular septal defect repair (3DP):
3553
REPAIR OF VENTRICULAR SEPTAL DEFECT WITH PROSTHESIS
3572
OTHER AND UNSPECIFIED REPAIR OF VENTRICULAR SEPTAL DEFECT
Occlusion of thoracic vessel (3EP):
IDDA aleguro diagnegio pada (2D):
7/70
PATENT DUCTUS ARTERIOSUS
Other surgical occlusion (3FP):
3884
OTHER SURGICAL OCCLUSION OF AORTA, ABDOMINAL
3885
OTHER SURGICAL OCCLUSION OF THORACIC VESSEL
3959

0339 RACHS-1 pediatric heart surgery mortality
OTHER REPAIR OF VESSEL
Atrial septal defect repair and enlargement (4P):
3541
ENLARGE EXISTING SEP DEF
Extracornoreal circulation (5P)
3961
EXTRACORPOREAL CIRCULAT
Atrial Septal Defect or Ventricular Septal Defect diagnosis (5D):
7454
VENTRICULAR SEPT DEFECT
SECUNDUM ATRIAL SEPT DEF Cathaterization (6P):
3721
RT HEART CARDIAC CATH
3722
LEFT HEART CARDIAC CATH
RT/LEFT HEART GARD GATH
CONTRAST AORTOGRAM
8843
CONTR PULMON ARTERIOGRAM
8844
ARTERIOGRAPHY OF OTHER INTRATHORACIC VESSELS
8851
ANGIOCARDIOGRAPHY OF VENAE CAVAE
8852
ANGIOCARDIOGRAPHY OF RIGHT HEART STRUCTURES
ANGIOCARDIOGRAPHY OF LEFT HEART STRUCTURES
0034 ΓΩΜΒΙΝΕΊ ΡΙCHT ΔΝΟ Ι ΕΕΤ ΗΕΔΡΤ ΔΝΟΙΟΩΔΡΟΙΟΩΡΔΡΗΥ
8855
CORONARY ARTERIOGRAPHY USING A SINGLE CATHETER
8856
CORONARY ARTERIOGRAPHY USING TWO CATHETERS
8858
NEGATIVE-CONTRAST CARDIAC ROENTGENOGRAPHY
Heart Transplant (7P):
375
HEART TRANSPLANTATION (invalid as of OCT03)
ITEART TRANSPLANTATION OUTUS- 3759
IMPLANT TOT REP HRT SYS OCT03-
Premature infants (4D):
76500
EXTREME IMMATUR WTNOS

	0339 RACHS-1 pediatric heart surgery mortality
	76501
	EXTREME IMMATUR <500G
	76502
	EXTREME IMMATUR 500-749G
	76503
	EXTREME IMMATUR 750-999G
	76504
	EXTREME IMMAT 1000-1249G
	76505
	IEXTREME IMMAT 1250-1499G
	IEXTREME IMMAT 1500-1749G
	IEXTREME IMMAT 1750-1999G
	IZE10
	IFRETERINTINFANT NEG WINOS
	176512
	PRETERM NEC 500_7/0G
	76513
	PRETERM NEC 750-999G
	76514
	PRETERM NEC 1000-1249G
	76515
	PRETERM NEC 1250-1499G
	76516
	PRETERM NEC 1500-1749G
	76517
	PRETERM NEC 1750-1999G
	76518
	PRETERM NEC 2000-2499G
	76519
	PRETERM NEC 2500+G
Risk	risk adjustment method widely or commercially available
Adjustment	PDI: The predicted value for each case is computed using a logistic regression with Generalized Estimating Equations (GEE)
-	to account for within hospital correlation containing RACHS-1 risk category; age category (<= 28 days, 29 to 90 days, 91 days
	to 1 year, 1 to 17 years); birth weight <2500 grams; non-cardiac structural anomaly (modified CCS 217); admission
	transferred in; and combination of congenital heart surgery procedures performed during admission. The reference
	population used in the model is the universe of discharges for states that participate in the HCUP State Inpatient Databases
	(SID) for the year 2008 (updated annually), a database consisting of 43 states and approximately 7 million pediatric
	discharges. The expected rate is computed as the sum of the predicted value for each case divided by the number of cases
	for the unit of analysis of interest (i.e., hospital). The risk adjusted rate is computed using indirect standardization as the
	observed rate divided by the expected rate (standardized mortality ratio), multiplied by the reference population rate.
	The model includes additional covariates for RACHS-1 risk categories, and multiple congenital heart procedures during the
	admission.
	Required data elements: Age in days up to 364, then age years at admission; International Classification of Diseases, Ninth
	Kevision, Clinical Modification (ICD-9-CM) principal and secondary diagnosis codes; admission type; admission source.
	Attachment Pediatric Heart Surgery (KACHS-1).docx
Stratification	The user has the option to stratify by gender, birth weight, age in days, age in years, race / ethnicity, primary payer, and
	custom stratifiers.

	0339 RACHS-1 pediatric heart surgery mortality
Type Score	Rate/proportion better quality = lower score
Algorithm	The indicator is expressed as a rate, and is defined as outcome of interest / population at risk or numerator / denominator. A standardized mortality ratio will also be reported. The AHRQ Quality Indicators (AHRQ QI) software performs five steps to produce the rates. 1) Discharge-level data is used to mark inpatient records containing the outcome of interest and 2) the population at risk. For provider indicators, the population at risk is also derived from hospital discharge records; for area indicators, the population at risk is derived from U.S. Census data. 3) Calculate observed rates. Using output from steps 1 and 2, rates are calculated for user-specified combinations of stratifiers. 4) Calculate expected rates. Regression coefficients from a reference population database are applied to the discharge records and aggregated to the provider or area level. 5) Calculate risk-adjusted rate. Use the indirect standardization to account for case-mix, based on the standardized mortality ratio. 6) Calculate smoothed rate. A univariate shrinkage factor is applied to the risk-adjusted rates. The shrinkage estimate reflects a reliability adjustment unique to each indicator. Full information on calculation algorithms and specifications can be found at http://qualityindicators.ahrq.gov/modules/pdi_resources.aspx.

п

	0340 Pediatric heart surgery volume (PDI 7)
Steward	Agency for Healthcare Research and Quality 540 Gaither Road Rockville Maryland 20850
Description	Number of discharges with procedure for pediatric heart surgery
Туре	Structure
Data Source	Administrative claims The data source is hospital discharge data such as the HCUP State Inpatient Databases (SID) or equivalent using UB-04 coding standards. The data collection instrument is public-use AHRQ QI software available in SAS or Windows versions. URL None http://www.qualityindicators.ahrq.gov/software.htm None URL http://www.qualityindicators.ahrq.gov/downloads/winqi/AHRQ_QI_Windows_Software_Documentation_V41a.pdf None
Level	Facility
Setting	Hospital/Acute Care Facility
Numerator Statement	Discharges under age 18 with ICD-9-CM procedure codes for either congenital heart disease (1P) in any field or non-specific heart surgery (2P) with ICD-9-CM diagnosis of congenital heart disease (2D) in any field.
Numerator Details	Time Window: Time window can be determined by user, but is generally a calendar year.
	Discharges under age 18 with ICD-9-CM procedure codes for either congenital heart disease (1P) or non-specific heart surgery (2P) with ICD-9-CM diagnosis of congenital heart disease (2D) in any field. Congenital heart disease procedures (1P): 3500 CLOSED VALVOTOMY NOS 3501 CLOSED AORTIC VALVOTOMY 3502 CLOSED MITRAL VALVOTOMY 3503 CLOSED PULMON VALVOTOMY 3504 CLOSED PULMON VALVOTOMY 3510 OPEN VALVULOPLASTY NOS 3511 OPN AORTIC VALVULOPLASTY 3512 OPN MITRAL VALVULOPLASTY 3513 OPN PULMON VALVULOPLASTY 3514 OPN TRICUS VALVULOPLASTY 3514 OPN TRICUS VALVULOPLASTY 3520

0340 Pediatric heart surgery volume (PDI 7)
REPLACE HEART VALVE NOS
3521
REPLACE AORT VALV-TISSUE
3522
REPLACE AORTIC VALVE NEC
3523
REPLACE MITR VALV-TISSUE
3524
3525
REDIACE DUI MIVAI VLTISSUE
3526
3528
2521
2522
3533
353/
3535
3539
TISS ADJ TO VALV OPS NEC
3541
ENLARGE EXISTING SEP DEF
3542
CREATE SEPTAL DEFECT
3550
PROSTH REP HRT SEPTA NOS
3551
PROS REP ATRIAL DEF-OPN
3552
PROS REPAIR ATRIA DEF-CL
3553
PROST REPAIR VENTRIC DEF
3554
PROS REP ENDOCAR CUSHION
3560
GRFT REPAIR HRT SEPT NOS
3561
GRAFT REPAIR ATRIAL DEF
3562
GRAFT REPAIR VENTRIC DEF
IGRET REP ENDUCAR CUSHION
INEART SEPTA REPAIR NUS
INTRIA SERTA DER KER NEG

	0340 Pediatric heart surgery volume (PDI 7)
	3572
	VENTR SEPTA DEF REP NEC
	3573
	ENDOCAR CUSHION REPINEC
	3581
	TOT REPAIR TETRAL FALLOT
	3582
	101 REF TRUNGUS ARTERIUS
	TUT CUR TRANSPUS GRT VES
	INTERAT VEN RETRN TRANSP
	CONDUIT RT VENT-PUL ART
	CONDUIT LEFT VENTR-AORTA
	3594
	CONDULT ARTIUM-PULM ART
	3595
	HEART REPAIR REVISION
	3598
	OTHER HEART SEPTA OPS
	3599
	OTHER OP ON HRT VALVES
	3699
	OTHER OPERATIONS ON VESSEL OF HEART
	3733
	EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART
	3736
	EXCISION OR DESTRUCTION OF LEFT ATRIAL APPENDAGE (LAA) OC108-
	HEART TRANSPLANTATION (invalid as of OC103)
	HEART TRANSPLANTATION OCTU3-
	IMPLANT TOT REP HRT SYS OCTU3-
	SYSTEMIC-PULMART SHUNT
	CAVAL-PULIMON ART ANASTOM
	RESECTION OF ADDOMINAL AORTA WITH ANASTOMOSIS
	100 VESSEL RESECT/ANAST
	RESECTION OF ADDOMINAL AORTA WITH REPLACEMENT
1	

	0340 Pediatric heart surgery volume (PDI 7)
	3884 OTHER SURGICAL OCCLUSION OF ABDOMINAL AORTA
	OCCLUDE THORACIC VES NEC
	OTHER REVISION OF VASCULAR PROCEDURE
	REPAIR OF BLOOD VESSEL WITH TISSUE PATCH GRAFT 3957
	REPAIR OF BLOOD VESSEL WITH SYNTHETIC PATCH GRAFT 3958
	REPAIR OF BLOOD VESSEL WITH UNSPECIFIED TYPE OF PATCH GRAFT 3959
	REPAIR OF VESSEL NEC Congenital heart disease diagnoses (2D):
	7450 COMMON TRUNCUS 74510
	COMPL TRANSPOS GREAT VES 74511
	DOUBLE OUTLET RT VENTRIC 74512
	CORRECT TRANSPOS GRT VES 74519
•	TRANSPOS GREAT VESS NEC 7452
•	TETRALOGY OF FALLOT 7453
	COMMON VENTRICLE 7454
	VENTRICULAR SEPT DEFECT 7455 SECUNDUM ATRIAL SERT DEF
	74560 ENDOCARD CLISHION DEE NOS
	74561 OSTILIM PRIMLIM DEFECT
	74569 ENDOCARD CUSHION DEF NEC
	7457 COR BILOCULARE
	7458 SEPTAL CLOSURE ANOM NEC
	7459 SEPTAL CLOSURE ANOM NOS
	74600 PULMONARY VALVE ANOM NOS
	74601 CONG PULMON VALV ATRESIA 74602
	CONG PULMON VALVE STENOS 74609
	PULMONARY VALVE ANOM NEC 7461
	CONG TRICUSP ATRES/STEN

0340 Pediatric heart surgery volume (PDI 7)
7462
EBSTEIN'S ANOMALY
7463
CONG AORTA VALV STENOSIS
IZUNGEN MITRAL STENUSIS
ICONG MITRAL INSUFFICIENC
7467
HYPOPLAS LEFT HEART SYND
74681
CONG SUBAORTIC STENOSIS
74682
INFUNDIB PULMON STENUSIS
174685
ICORONARY ARTERY ANOMALY
74687
MALPOSITION OF HEART
74689
CONG HEART ANOMALY NEC
7469
CONG HEART ANOMALY NOS
74710
ICOARCTATION OF AORTA
74711
INTERRUPT OF AORTIC ARCH
74720
CONG ANOM OF AORTA NOS
ANOMALIES OF AURTIC ARCH
AORTIC ATRESIA/STENOSIS
74729
CONG ANOM OF AORTA NEC
7473
PULMONARY ARTERY ANOM
GREAT VEIN ANOMALY NOS
74742
PART ANOM PULM VEN CONN
74749
GREAT VEIN ANOMALY NEC
Exclude cases:
• MDC 14 (pregnancy, childbirth and pueperium)
• with transcatheter interventions (either 3AP, 3BP, 3CP, 3DP, 3EP with 3D, or 3FP) as single cardiac procedures, performed

0340 Pediatric heart surgery volume (PDI 7)
without bypass (5P) but with catheterization (6P);
• with septal defects (4P) as single cardiac procedures without bypass (5P)
Transcatheter interventions procedure codes:
Closed heart valvotomy (3AP):
3500
CLOSED HEART VALVOTOMY, UNSPECIFIED VALUE
3501
CLOSED HEART VALVOTOMY, AORTIC VALUE
3502
CLOSED HEART VALVOTOMY, MITRAL VALUE
3503
CLOSED HEART VALVOTOMY, PULMONARY VALUE
3504
CLOSED HEART VALVOTOMY, TRICUSPID VALUE
Atrial septal enlargement (3BP):
3541
ENLARGEMENT OF EXISTING ATRIAL SEPTAL DEFECT
CREATION OF SEPTAL DEFECT IN HEART
Atrial septal defect repair (30P):
REPAIR OF ATTAL SEPTAL DEFECT WITH PROSTNESTS, OPEN TECHNIQUE
Ventricular sental defect renair (3DP):
REPAIR OF VENTRICULAR SEPTAL DEFECT WITH PROSTHESIS
3572
OTHER AND UNSPECIFIED REPAIR OF VENTRICULAR SEPTAL DEFECT
Occlusion of thoracic vessel (3EP):
3885
OCCLUDE THORACIC VES NEC
PDA closure diagnosis code (3D):
7470
PATENT DUCTUS ARTERIOSUS
Other surgical occlusion (3FP):
3050
OTHER REPAIR OF VESSEL
Extracorporeal circulation (5P):
3961
EXTRACORPOREAL CIRCULAT
Catheterization (6P):
3721
RT HEART CARDIAC CATH
3722
LEFT HEART CARDIAC CATH
טדטטן

	0340 Pediatric heart surgery volume (PDI 7)
	CONTR PULMON ARTERIOGRAM
	18850
	ANGIOCARDIOGRAPHY, NOT OTHERWISE SPECIFIED
	8851
	ANGIOCARDIOGRAPHY OF VENAE CAVAE 8852
	ANGIOCARDIOGRAPHY OF RIGHT HEART STRUCTURES 8853
	ANGIOCARDIOGRAPHY OF LEFT HEART STRUCTURES 8854
	COMBINED RIGHT AND LEFT HEART ANGIOCARDIOGRAPHY 8855
	CORONARY ARTERIOGRAPHY USING A SINGLE CATHETER
	CORONARY ARTERIOGRAPHY USING TWO CATHETERS
	OTHER AND UNSPECIFIED CORONARY ARTERIOGRAPHY
	NEGATIVE-CONTRAST CARDIAC ROENTGENOGRAPHY
	Atrial septal defect repair and enlargement (4P): 3541
	ENLARGE EXISTING SEP DEF 3552
	PROS REPAIR ATRIA DEF-CL
Denominator Statement	This measure does not have a denominator due to the fact it is a volume measure.
Denominator Categories	Female; Male Age less than 18 years
Denominator Details	Time Window: Not applicable
	Not applicable
Exclusions	Not applicable. This measure does not have a denominator due to the fact it is a volume measure.
Exclusion Details	Not applicable. This measure does not have a denominator due to the fact it is a volume measure.
Risk	no risk adjustment necessary
Adjustment	Not applicable
Stratification	Not applicable
Type Score	Count better quality = higher score
Algorithm	The volume is the number of discharges with a procedure for pediatric heart surgery.

	0352 Failure to rescue in-hospital mortality (risk adjusted)
Steward	The Children's Hospital of Philadelphia 3535 Market Street, Suite 1029 Philadelphia Pennsylvania 19104
Description	Percentage of patients who died with a complications in the hospital.
Туре	Outcome
Data Source	Administrative claims Linked patients hospitalizations claims records, augmented with Outpatient and Part B records; can also use unlinked data if linked files are not available to identify comorbidities and develop definitions of severity and other risk measure. URL http://www.resdac.org/ URL http://www.research.chop.edu/programs/cor/outcomes.php
Level	Facility, Health Plan, Integrated Delivery System, Population : County or City, Population: National, Population: Regional, Population: State

	0352 Failure to rescue in-hospital mortality (risk adjusted)
Setting	Hospital/Acute Care Facility
Numerator Statement	Patients who died with a complication plus patients who died without documented complications. Death is defined as death in the hospital.
	All patients in an FTR analysis have developed a complication (by definition).
	Complicated patient has at least one of the complications defined in Appendix B(see website
	http://www.research.chop.edu/programs/cor/outcomes.php). Complications are defined using the secondary ICD9 diagnosis and procedure codes and the DRG code of the current admission.
	Comorbidities are defined in Appendix C (see website http://www.research.chop.edu/programs/cor/outcomes.php) using
	secondary ICD9 diagnosis codes of the current admission and primary or secondary ICD9 diagnosis codes of previous
	admission within 90 days of the admission date of the current admission.
Numerator	When physician part B is available, the definition of complications and comorbidities are adgmented to include CFT codes.
Details	Time window: Index Hospitalization (Admission to Discharge)
	Patients who died with complication and patients who died without documented complications. Death is defined as death in the hospital.
Denominator Statement	General Surgery, Orthopedic and Vascular patients in specific DRGs with complications plus patients who died in the hospital without complications.
	Inclusions: adult patients admitted for one of the procedures in the General Surgery, Orthopedic or Vascular DRGs (see appendix A http://www.research.chop.edu/programs/cor/outcomes.php)
Denominator	Female; Male 18-90
Categories	
Denominator Details	Time Window: Index Hospitalization (Admission to Discharge)
	Adult patients admitted for one of the procedures in the General Surgery, Orthopedic or Vascular DRGs (see Appendix A http://www.research.chop.edu/programs/cor/outcomes.php)who developed an in hospital complication and those who died without a complication.
Exclusions	Patients over age 90, under age 18.
Exclusion Details	N/A
Risk	risk-adjustment devised specifically for this measure/condition
Adjustment	Risk Adjustment: Model was developed using logistic regression analysis.
	Associated data elements: age in years, sex, race, comorbidities, DRGs (combined with and without complications) and
	procedure codes within DRGs, transfer status. Failure to rescue is adjusted using a logistic regression model where v is a failure and the total N is composed of patients
	who develop a complication and patients who died without a complication.
	According to developer: The model adjustment variables can vary. We have found that FTR results are fairly stable, even with
	little adjustment, since all patients in an FTR analysis have developed a complication (by definition), they are a more
	homogeneous group of patients than the entire population. Hence severity adjustment plays somewhat less of a role than in
	other outcome measures.
Stratification	Complicated patient has at least one of the complications defined in Appendix P
	(http://www.research.chop.edu/programs/cor/outcomes.php) Complications are defined using the secondary ICD9 diagnosis
	and procedure codes and the DRG code of the current admission. When Physician Part B file is available, the definition of
	complications and comorbidities are augmented to include CPT codes.
Type Score	Rate/proportion better quality = lower score
Algorithm	Refer to website (http://www.research.chop.edu/programs/cor/outcomes.php)

	0353 Failure to rescue 30-day mortality (risk adjusted)
Steward	The Children's Hospital of Philadelphia 3535 Market Street, Suite 1029 Philadelphia Pennsylvania 19104
Description	Percentage of patients who died with a complication within 30 days from admission.
Туре	Outcome
Data Source	Administrative claims Linked patients hospitalizations claims records, augmented with Outpatient and Part B records; can
NOT DRAFT. DO NOT OTE QUOTE DEDRODUAE OD ADOULATE	

	0353 Failure to rescue 30-day mortality (risk adjusted)
	also use unlinked data if linked files are not available to identify comorbidities and develop definitions of severity and other
	risk measure.
	URL http://www.resoac.org/ URL http://www.research.chop.edu/programs/cor/outcomes.pnp
Level	Facility, Health Plan, Integrated Delivery System, Population: County or City, Population: National, Population: Regional, Population: State
Setting	Hospital/Acute Care Facility
Numerator Statement	Patients who died with a complication plus patients who died without documented complications. Death is defined as death within 30 days from admission.
	All patients in an FTR analysis have developed a complication (by definition).
	Complicated patient has at least one of the complications defined in Appendix B(see website
	http://www.research.chop.edu/programs/cor/outcomes.php). Complications are defined using the secondary ICD9 diagnosis and procedure codes and the DRG code of the current admission.
	Comorbidities are defined in Appendix C(see website http://www.research.chop.edu/programs/cor/outcomes.php) using
	secondary ICD9 diagnosis codes of the current admission and primary or secondary ICD9 diagnosis codes of previous
	admission within 90 days of the admission date of the current admission.
Numerater	Time Window Within 20 days from administra
Numerator Details	Time window: within 50 days from admission.
Dotano	Patients who died with complication and patients who died without documented complications. Death is defined as death
	within 30 days from admission.
Denominator	General Surgery, Orthopedic and Vascular patients in specific DRGs with complications plus patients who died in the hospital
Statement	without complications. Inclusions: adult nationts admitted for one of the precedures in the Conoral Surgery, Orthonodia or Vascular DPCs (see
	appendix A http://www.research.chop.edu/programs/cor/outcomes.php)
	Inclusions: adult patients admitted for one of the procedures in the General Surgery, Orthopedic or Vascular DRGs (see
	appendix A)
Denominator	Female; Male 18-90
Categories	Time Window Within 20 days from admission
Details	Time window. Within 30 days from admission
	Adult patients admitted for one of the procedures in the General Surgery, Orthopedic or Vascular DRGs (see Appendix A
	http://www.research.chop.edu/programs/cor/outcomes.php)who developed an in hospital complication and those who died
	without a complication.
Exclusions	Patients over age 90, under age 18.
Exclusion Details	N/A
Risk	risk-adjustment devised specifically for this measure/condition
Adjustment	Risk Adjustment: Model was developed using logistic regression analysis.
	Associated data elements: age in years, sex, race, comorbidities, DRGs (combined with and without complications) and
	procedure codes within DRGs, transfer status.
	who develop a complication and natients who died without a complication
	According to developer: The model adjustment variables can vary. We have found that FTR results are fairly stable, even with
	little adjustment, since all patients in an FTR analysis have developed a complication (by definition), they are a more
	homogeneous group of patients than the entire population. Hence severity adjustment plays somewhat less of a role than in
	other outcome measures.
Stratification	Complicated natient has at least one of the complications defined in Appendix R
Stratification	(http://www.research.chop.edu/programs/cor/outcomes.php) Complications are defined using the secondary ICD9 diagnosis
	and procedure codes and the DRG code of the current admission. When Physician Part B file is available, the definition of
	complications and comorbidities are augmented to include CPT codes.
Type Score	Rate/proportion better quality = lower score

п

	USSS Failure to rescue 30-day mortality (risk adjusted)
Algorithm	Refer to website (http://www.research.chop.edu/programs/cor/outcomes.php)
-	0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
Steward	Agency for Healthcare Research and Quality 540 Gaither Road Rockville Maryland 20850
Description	Percentage of cases having developed specified complications of care with an in-hospital death.
Туре	Outcome
Data Source	Administrative claims The data source is hospital discharge data such as the HCUP State Inpatient Databases (SID) or equivalent using UB-04 coding standards. The data collection instrument is public-use AHRQ QI software available in SAS or Windows versions. URL None http://www.qualityindicators.ahrq.gov/software.htm None URL http://www.qualityindicators.ahrq.gov/downloads/winqi/AHRQ_QI_Windows_Software_Documentation_V41a.pdf None
Level	Facility
Setting	Hospital/Acute Care Facility
Numerator Statement	All discharges with a disposition of "deceased" (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.
Numerator	Time Window: Time window can be determined by user, but is generally a calendar year.
Details	All discharges with a disposition of "deceased" (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.
Denominator Statement	All surgical discharges age 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium) defined by specific DRGs or MS-DRGs and an ICD-9-CM code for an operating room procedure, principal procedure within 2 days of admission OR admission type of elective (ATYPE=3) with potential complications of care listed in Death among Surgical definition (e.g., pneumonia, DVT/PE, sepsis, shock/cardiac arrest, or GI hemorrhage/acute ulcer).
Denominator Categories	Female 18 and older
Denominator Details	Time Window: Time window can be determined by user, but is generally a calendar year.
	All surgical discharges age 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium) defined by specific DRGs or MS-DRGs and an ICD-9-CM code for an operating room procedure, principal procedure within 2 days of admission OR admission type of elective (ATYPE=3) with potential complications of care listed in Death among Surgical definition (pneumonia, DVT/PE, sepsis, shock/cardiac arrest, or GI hemorrhage/acute ulcer). See Patient Safety Indicators Appendices:
	Appendix A – Operating Room Procedure Codes
	Appendix D – Surgical Discharge DRGs
	 Appendix E – Surgical Discharge MS-DRGs PSI appendices at: http://www.gualitvindicators.ahrg.gov/downloads/nsi/TechSpecs42/PSI%20Appendices.pdf;
	FTR 2 - DVT/PE: Denominator
	A diagnosis of pulmonary embolism or deep vein thrombosis in any secondary diagnosis field ICD-9-CM Pulmonary Embolism and Deep Vein Thrombosis diagnosis codes:
	Pulmonary Embolism 4151
	PULMONARY EMBOLISM AND INFARCTION 41511
	IATROGENIC PULMONARY EMBOLISM AND INFARCTION 41519
	PULMONARY EMBOLISM AND INFARCTION, OTHER Deep Vein Thrombosis
	PHLEBITIS AND THROMBOSIS OF FEMORAL VEIN (DEEP) (SUPERFICIAL) 45119
	PHLEBITIS AND THROMBOPHLEBITIS OF DEEP VESSEL OF LOWER EXTREMITIES – OTHER 4512

0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
PHLEBITIS AND THROMBOPHLEBITIS OF LOWER EXTREMITIES UNSPECIFIED
PHLEBITIS AND THROMBOPHLEBITIS OF ILIAC VEIN
IPHI ERITIS AND THROMBOPHI ERITIS OF OTHER SITES - OF UNSPECIFIED SITE
45340
DVT-EMBLSM LOWER EXT NOS (OCT 04)
45341
DVT-EMB PROX LOWER EXT (OCT 04)
4538
OTHER VENOUS EMBOLISM AND THROMBOSIS OF OTHER SPECIFIED VEINS
4539
OTHER VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED SITE
FTR 3 – Pneumonia: Denominator
A diagnosis of pneumonia in any secondary diagnosis field
4820
PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
4821
PNEUMONIA DUE TO PSEUDOMONAS
14822 IDNELIMONIA DUE TO HEMODHILUS INELLIENZAE (H. INELLIENZAE)
4823
PNEUMONIA DUE TO STREPTOCOCCUS
48230
PNEUMONIA DUE TO STREPTOCOCCUS – STREPTOCOCCUS, UNSPECIFIED
48232
PNEUMONIA DUE TO STREPTOCOCCUS – GROUP B
48239
PNEUMONIA DUE TO STREPTOCOCCUS – OTHER STREPTOCOCCUS
48240
PNEUMONIA DUE TO STAPHYLOCOCCUS – PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
48241
METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS OCT08-
148242 Methicillun degistant dneumonia due to staduvi ococcus audeus octos
18249
PNEUMONIA DUE TO STAPHYLOCOCCUS – OTHER STAPHYLOCOCCUS PNEUMONIA
4828
PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
148281 Innelmanna dhe to ather areairer raateria - anaerorea
IPNEUMONIA DUE TO OTHER SPECIFIED BACTERIA – ANAEROBES
PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA – EXCHERICHIA COLI IE COLII
48283
PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA – OTHER GRAM-NEGATIVE BACTERIA
PNEUMUNIA DUE TU UTHER SPECIFIED BACTERIA – LEGIUNNAIRES DISEASE 1/8289

0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA – OTHER SPECIFIED BACTERIA
4829
BACTERIAL PNEUMONIA UNSPECIFIED
485
BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
IPNEUMUNIA, URGANISM UNSPECIFIED
514
PUI MONARY CONGESTION AND HYPOSTASIS
IFTR 4 – Sepsis: Denominator
A diagnosis of sepsis in any secondary diagnosis field
Include ICD-9-CM Sepsis diagnosis codes:
0380
STREPTOCOCCAL SEPTICEMIA
0381
ISTAPHYLOCOCCAL SEPTICEMIA
13811
METHICIU UN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA OCT08-
03812
METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA OCT08-
03819
OTHER STAPHYLOCOCCAL SEPTICEMIA
0382
PNEUMOCOCCAL SEPTICEMIA (STREPTOCOCCUS PNEUMONIAE SEPTICEMIA)
13840
GRAM-NEGATIVE ORGANISM LINSPECIFIED
03841
HEMOPHILUS INFLUENZAE
03842
ESCHERICHIA COLI
03843
PSEUDOMONAS
USO49 SEDTICEMIA DI LE TO OTHED CDAM NECATIVE ODCANISMS
0388
OTHER SPECIFIED SEPTICEMIAS
0389
UNSPECIFIED SEPTICEMIA
78552
SEPTIC SHOCK OCT03-
SHUCK W/U MENTION OF TRAUMA- OTHER
STSTEIVIIG INFLAIVIIVIATURT RESPONSE STINDROIVIE DUE TO INFECTIOUS PROCESS VV/O ORGAN DISPONCTION 199592
SYSTEMIC INFLAMMATORY RESPONSE SYNDROME DUE TO INFECTIOUS PROCESS W/ ORGAN DYSEUNCTION
9980

0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
POSTOPERATIVE SHOCK
*No longer valid in FY2005
FTR 5 - Shock or Cardiac Arrest: Denomniator
A diagnosis of shock or cardiac arrest in any secondary field or any procedure for shock or cardiac arrest
Include ICD-9-CM Shock or Cardiac Arrest diagnosis codes:
ICARDIAC ARREST
COMPLICATIONS FOLLOWING ABORTION AND ECTOPIC AND MOLAR PREGNANCIES. SHOCK
66910
SHOCK DURING OR FOLLOWING LABOR AND DELIVERY – UNSPECIFIED AS TO EPISODE OF CARE OR NOT
APPLICABLE
66911
SHOCK DURING OR FOLLOWING LABOR AND DELIVERY – DELIVERED, W/ OR W/O MENTION OF ANTEPARTUM
CONDITION
66912
SHOCK DURING OR FOLLOWING LABOR AND DELIVERY – DELIVERED, W/ MENTION OF POSTPARTUM
00913 CHOCK DURING OR FOLLOWING LAROR AND DELIVERY ANTERARTUM CONDITION OR COMPLICATION
SHOCK DURING UK FULLOWING LABOR AND DELIVERT - ANTEFARTUW CONDITION OR COMPLICATION
SHOCK DURING OR FOULOWING LABOR AND DELIVERY – POSTPARTUM CONDITION OR COMPLICATION
7855
SHOCK NOS
78550
SHOCK, UNSPECIFIED
78551
CARDIOGENIC SHOCK
17091
RESPIRATORY ARREST
9950
OTHER ANAPHYLACTIC SHOCK
9954
SHOCK DUE TO ANESTHESIA
9980
ANAPHYLAUTIC SHOUK DUE TO SERUM
102-3-CIM SHOCK OF CARDIAC AFTEST PROCEDURE CODES.
NONMECHANICAL METHODS OF RESUSCITATION
9960
CARDIOPULMONARY RESUSCITATION, NOS
9963
CLOSED CHEST CARDIAC MASSAGE
FTR 6 - GI Hemorrhage/Acute Ulcer: Denominator
A diagnosis of hemorrhage or acute ulcer in any secondary field
ICD-9-CM GI Hemorrhage/Acute Ulcer diagnosis codes:
IESUPTIAGEAL VARIGES W/ BLEEDING
140020

0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
ESOPHAGEAL VARICES IN DISEASES CLASSIFIED ELSEWHERE W/ BLEEDING
5307
GASTROESOPHAGEAL LACERATION-HEMORRHAGE SYNDROME
53062 ESOPHAGEAL HEMORRHAGE
Gastric ulcer:
53100
ACUTE W/ HEMORRHAGE – W/O MENTION OF OBSTRUCTION
53101
ACUTE W/ HEMORRHAGE – W/ OBSTRUCTION
53110 ACLITE W/ DEDEODATION W/O MENITION OF OPSTRUCTION
53111
ACUTE W/ PERFORATION – W/ OBSTRUCTION
53120
ACUTE W/ HEMORRHAGE AND PERFORATION – W/O MENTION OF OBSTRUCTION
53121
ACUTE W/ HEMORRHAGE AND PERFORATION – W/ OBSTRUCTION
53'13U ACLITE W/O MENTION OF HEMODEHACE OF DEDEORATION - W/O MENTION OF OPSTELICTION
53131
ACUTE W/O MENTION OF HEMORRHAGE OR PERFORATION – W/ OBSTRUCTION
53190
UNSPECIFIED AS ACUTE OR CHRONIC, W/O MENTION OF HEMORRHAGE OR PERFORATION – W/O MENTION OF
OBSTRUCTION
23191 LINISDECIEIED AS ACUTE OR CHRONIC, W/O MENITION OF HEMORPHACE OR DEDEORATION - W/ ORSTRUCTION
Duodenal ulcer:
53200
ACUTE W/ HEMORRHAGE – W/O MENTION OF OBSTRUCTION
53201
ACUTE W/ HEMORRHAGE – W/ OBSTRUCTION
53210 ACLITE W/ DEDEORATION W/O MENITION OF ORSTRUCTION
53211
ACUTE W/ PERFORATION – W/ OBSTRUCTION
53220
ACUTE W/ HEMORRHAGE AND PERFORATION – W/O MENTION OF OBSTRUCTION
ACUTE W/ HEMORKHAGE AND PERFORATION - W/ OBSTRUCTION 53230
ACUTE W/O MENTION OF HEMORRHAGE OR PERFORATION – W/O MENTION OF OBSTRUCTION
53231
ACUTE W/O MENTION OF HEMORRHAGE OR PERFORATION – W/ OBSTRUCTION
53290
UNSPECIFIED AS ACUTE OR CHRONIC, W/O MENTION OF HEMORRHAGE OR PERFORATION – W/O MENTION OF
UBSTRUCTION 53201
UNSPECIFIED AS ACUTE OR CHRONIC, W/O MENTION OF HEMORRHAGE OR PERFORATION – W/ OBSTRUCTION
Peptic ulcer:
53300
SITE UNSPECIFIED ACUTE W/ HEMORRHAGE – W/O MENTION OF OBSTRUCTION
STE UNSPECIFIED ACUTE W/ HEMOKKHAGE - W/ OBSTRUCTION 53310

0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
SITE UNSPECIFIED ACUTE W/ PERFORATION – W/O MENTION OF OBSTRUCTION
ISTE UNSPECIFIED ACUTE W/ PERFORATION - W/ OBSTRUCTION
SITE UNSPECIFIED ACUTE W/ HEMORRHAGE AND PERFORATION – W/O MENTION OF OBSTRUCTION
SITE UNSPECIFIED ACUTE W/ HEMORRHAGE AND PERFORATION – W/O MENTION OF OBSTRUCTION
SITE UNSPECIFIED ACUTE W/O MENTION OF HEMORRHAGE AND PERFORATION – W/O MENTION OF OBSTRUCTION
SITE UNSPECIFIED ACUTE W/O MENTION OF HEMORRHAGE AND PERFORATION – W/ OBSTRUCTION
SITE UNSPECIFIED AS ACUTE OR CHRONIC, W/O MENTION OF HEMORRHAGE OR PERFORATION – W/O MENTION OF OBSTRUCTION
UNSPECIFIED AS ACUTE OR CHRONIC, W/O MENTION OF HEMORRHAGE OR PERFORATION – W/ OBSTRUCTION Gastrojejunal ulcer:
53400 ACUTE W/ HEMORRHAGE – W/O MENTION OF OBSTRUCTION
ACUTE W/ HEMORRHAGE – W/ OBSTRUCTION
ACUTE W/ PERFORATION – W/O MENTION OF OBSTRUCTION
ACUTE W/ PERFORATION – W/ OBSTRUCTION
ACUTE W/ HEMORRHAGE AND PERFORATION – W/O MENTION OF OBSTRUCTION
ACUTE W/ HEMORRHAGE AND PERFORATION – W/ OBSTRUCTION
ACUTE W/O MENTION OF HEMORRHAGE OR PERFORATION – W/O MENTION OF OBSTRUCTION
ACUTE W/O MENTION OF HEMORRHAGE OR PERFORATION – W/ OBSTRUCTION
UNSPECIFIED AS ACUTE OR CHRONIC, W/O MENTION OF HEMORRHAGE OR PERFORATION – W/O MENTION OF OBSTRUCTION
53491
Gastritis and duodenitis:
ACUTE GASTRITIS – W/ HEMORRHAGE
ATROPHIC GASTRITIS – W/ HEMORRHAGE 53521
GASTRIC MUCOSAL HYPERTROPHY – W/ HEMORRHAGE 53531
ALCOHOLIC GASTRITIS – W/ HEMORRHAGE
OTHER SPECIFIED GASTRITIS – W/ HEMORRHAGE
UNSPECIFIED GASTRITIS AND GASTRODUODENITIS – W/ HEMORRHAGE
DUODENITIS – W/ HEMORRHAGE 53783

	0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
	ANGIODYSPLASIA OF STOMACH AND DUODENUM – W/ HEMORRHAGE
	53784 DIEULAFOY LESION (HEMORRHAGIC) OF STOMACH AND DUODENUM
	56202 DIVERTICULOSIS OF SMALL INTESTINE – W/ HEMORRHAGE
	56203 DIVERTICULITIS OF SMALL INTESTINE – W/ HEMORRHAGE
	56212 DIVERTICULOSIS OF COLON – W/ HEMORRHAGE
	5693
	HEMORRHAGE OF RECTUM AND ANUS 56985
	ANGIODYSPLASIA OF INTESTINE – W/ HEMORRHAGE
	DIEULAFOY LESION (HEMORRHAGIC) OF INTESTINE
	HEMATEMESIS
	BLOOD IN STOOL
	5789 HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED
Exclusions	Exclude cases:
	• age 90 years and older
	• transferred to an acute care facility (DISP = 2)
	• missing discharge disposition (DISP-missing), gender (SEA-missing), age (AGE-missing), quarter (DQTR-missing), year
	(TERE-INISSING) OF PHILCIPAL OLDERS (DATE-INISSING)
	hemorrhade/acute ulcer). See 2a.10.
Exclusion	Exclude cases:
Details	• age 90 years and older
	• transferred to an acute care facility (DISP = 2)
	• missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year
	(YEAR=missing) or principal diagnosis (DX1 =missing)
	NOTE: Additional exclusion criteria is specific to each diagnosis (pneumonia, DVT/PE, sepsis, shock/cardiac arrest, or GI
	hemorrhage/acute ulcer). See below for specifics.
	• with a diagnosis of pulmonary embolism or deep vein thrombosis in the primary diagnosis field (Defined in 2a.8)
	• with a diagnosis of abortion-related or postpartum obstetric pulmonary embolism in the primary diagnosis field
	ICD-9-CM Abortion-related and Postpartum Obstetric Pulmonary Embolism diagnosis codes:
	63460 SPONTANEOUS ABORTION W/ EMBOUSM - UNSPECIFIED
	63461
	SPONTANEOUS ABORTION W/ EMBOLISM - INCOMPLETE 63462
	SPONTANEOUS ABORTION W/ EMBOLISM - COMPLETE 63560
	LEGAL ABORTION W/ EMBOLISM - UNSPECIFIED
	LEGAL ABORTION W/ EMBOLISM - INCOMPLETE
	LEGAL ABORTION W/ EMBOLISM - COMPLETE
	63660 ILLEGAL ABORTION W/ EMBOLISM - UNSPECIFIED

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63661
ILLEGAL ABORTION W/ EMBOLISM - INCOMPLETE
ILLEGAL ABORTION W/ EMBOLISM - COMPLETE
ABORTION NOS W/ EMBOLISM - UNSPECIFIED
ABORTION NOS W/ EMBOLISM - INCOMPLETE
63762
ABORTION NOS W/ EMBOLISM - COMPLETE
6386
ATTEMPTED ABORTION W/ EMBOLISM
6396
10/32U
IOBSTETRICAL BLOOD-GLOT EMBOLISM, UNSPECIFIED AS TO EPISODE OF CARE OR NOT APPLICABLE
OBSTETRICAL BLOOD-CLOT EMBOLISM, DELIVERED, W/ OR W/O MENTION OF ANTEPARTUM CONDITION
67322
OBSTETRICAL BLOOD-CLOT EMBOLISM, DELIVERED, W/ MENTION OF POSTPARTUM COMPLICATION
67323
OBSTETRICAL BLOOD-CLOT EMBOLISM, ANTEPARTUM CONDITION OR COMPLICATION
OBSTETRICAL BLOOD-CLOT EMBOLISM, POSTPARTUM CONDITION OR COMPLICATION
with a diagnosis of neumonia or respiratory complications in the primary diagnosis field (Defined in 2a.8)
• with any diagnosis code for viral pneumonia
• with any diagnosis of or procedure for immunocompromised state.
MDC 4 (diseases/disorders of respiratory system)
See Patient Safety Indicators Appendices:
Appendix I – Immunocompromised State Diagnosis and Procedure Codes
PSI appendices at: http://www.qualityindicators.ahrq.gov/downloads/psi/TechSpecs42/PSI%20Appendices.pdf:
RESPIRATORY COMPLICATIONS
ICD-9-CM Viral Pneumonia diagnosis codes:
4800
ADENOVIRAL PNEUMONIA
4801
RESPIRATORY SYNCYTIAL VIRAL PNEUMONIA
480.3
PNEUMONIA DUE TO SARS OCT03-
4808
VIRAL PNEUMONIA NOT ELSEWHERE CLASSIFIED
4809
VIRAL PNEUMONIA UNSPECIFIED
ARSO
PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
4831
PNEUMONIA DUE TO CHLAMYDIA
4838

0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
4841
PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
4843
PNEUMONIA IN WHOOPING COUGH
4845
PNEUMONIA IN AN I HRAX
IPNEUMUNIA IN ASPERGILLUSIS 1/8/7
PNELIMONIA IN OTHER SYSTEMIC MYCOSES
4848
PNEUMONIA IN INFECTIOUS DISEASE NOT ELSEWHERE CLASSIFIED
4870
INFLUENZA W/ PNEUMONIA
4871
FLU W/ RESPIRATORY MANIFEST NOT ELSEWHERE CLASSIFIED
4878
IFLU W/ MANIFESTATION NOT ELSEWHERE CLASSIFIED
IFLU D/T AVIAN FLU VIRUS
INFLUENZA DUE TO IDENTIFIED AVIAN INFLUENZA VIRUS OCT09-
4881
INFLUENZA DUE TO IDENTIFIED NOVEL H1N1 INFLUENZA VIRUS OCT09-
FTR 4 – Sepsis: Exclusions
• with a diagnosis of sepsis in the principal diagnosis field (Defined in 2a.8)
with any diagnosis of infection
 with any diagnosis of or procedure for immunocompromised state
• with a length of stay of less than 4 days
See Patient Safety Indicators Appendices:
Appendix F – Infection Diagnosis Codes Annondix L Immunocompromised State Diagnosis and Procedure Codes
* Appendix I – Infinditocompromised State Diagnosis and Procedure Codes IPSI annendices at: http://www.gualityindicators ahrg.gov/downloads/nsi/TechSnecs/12/PSI%20Annendices.pdf
IFTR 5 - Shock or Cardiac Arrest: Exclusions
• with a primary diagnosis of shock or cardiac arrest (Defined in 2a.8)
• with a primary diagnosis of trauma
• with a primary diagnosis of hemorrhage or GI hemorrhage
with a primary diagnosis of abortion-related shock
 MDC 4 (diseases/disorders of respiratory system)
MDC 5 (diseases/disorders of circulatory system)
See Patient Safety Indicators Appendices:
• Appendix G – Trauma Diagnosis Codes
IPSI appendices at: http://www.qualityindicators.anrq.gov/downloads/psi/TechSpecs42/PSI%20Appendices.pdf.
10D-3-014 Hemorrage diagnosis codes.
ACLITE POSTHEMORRHAGIC ANEMIA
4590
OTHER DISORDERS OF CIRCULATORY SYSTEM, HEMORRHAGE, UNSPECIFIED
56881
HEMOPERITONEUM (NONTRAUMATIC)
9582
CERTAIN EARLY COMPLICATIONS OF TRAUMA, SECONDARY AND RECURRENT HEMORRHAGE

0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
ICD-9-CM Gastrointestinal (GI) Hemorrhage diagnosis codes:
ESOPHAGEAL VARICES W/ BLEEDING
45620 ESOPHAGEAL VARICES IN DISEASES CLASSIFIED ELSEWHERE W/ BLEEDING
GASTROESOPHAGEAL LACERATION – HEMORRHAGE SYNDROME
ESOPHAGEAL HEMORRHAGE
GASTRIC ULCER ACUTE W/ HEMORRHAGE – W/O MENTION OF OBSTRUCTION 53101
GASTRIC ULCER ACUTE W/ HEMORRHAGE – W/ OBSTRUCTION
GASTRIC ULCER ACUTE W/ HEMORRHAGE AND PERFORATION – W/O MENTION OF OBSTRUCTION
GASTRIC ULCER ACUTE W/ HEMORRHAGE AND PERFORATION – W/ OBSTRUCTION
GASTRIC ULCER CHRONIC OR UNSPECIFIED W/ HEMORRHAGE – W/O MENTION OF OBSTRUCTION
GASTRIC ULCER CHRONIC OR UNSPECIFIED W/ HEMORRHAGE – W/ OBSTRUCTION
GASTRIC ULCER CHRONIC OR UNSPECIFIED W/ HEMORRHAGE AND PERFORATION – W/O MENTION OF OBSTRUCTION 53161
GASTRIC ULCER CHRONIC OR UNSPECIFIED W/ HEMORRHAGE AND PERFORATION – W/ OBSTRUCTION
DUODENAL ULCER ACUTE W/ HEMORRHAGE – W/O MENTION OF OBSTRUCTION
DUODENAL ULCER ACUTE W/ HEMORRHAGE – W/ OBSTRUCTION 53220
DUODENAL ULCER ACUTE W/ HEMORRHAGE AND PERFORATION – W/O MENTION OF OBSTRUCTION 53221
DUODENAL ULCER ACUTE W/ HEMORRHAGE AND PERFORATION – W/ OBSTRUCTION
DUODENAL ULCER CHRONIC OR UNSPECIFIED W/ HEMORRHAGE – W/O MENTION OF OBSTRUCTION
DUODENAL ULCER CHRONIC OR UNSPECIFIED W/ HEMORRHAGE – W/ OBSTRUCTION
DUODENAL ULCER CHRONIC OR UNSPECIFIED W/ HEMORRHAGE AND PERFORATION – W/O MENTION OF OBSTRUCTION
DUODENAL ULCER CHRONIC OR UNSPECIFIED W/ HEMORRHAGE AND PERFORATION – W/ OBSTRUCTION
PEPTIC ULCER, SITE UNSPECIFIED, ACUTE W/ HEMORRHAGE – W/O MENTION OF OBSTRUCTION
PEPTIC ULCER, SITE UNSPECIFIED, ACUTE W/ HEMORRHAGE – W/ OBSTRUCTION
PEPTIC ULCER, SITE UNSPECIFIED, ACUTE W/ HEMORRHAGE AND PERFORATION – W/O MENTION OF OBSTRUCTION
PEPTIC ULCER, SITE UNSPECIFIED, ACUTE W/ HEMORRHAGE AND PERFORATION – W/ OBSTRUCTION
PEPTIC ULCER, SITE UNSPECIFIED, CHRONIC OR UNSPECIFIED W/ HEMORRHAGE – W/O MENTION OF OBSTRUCTION

0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
53341
PEPTIC ULCER, SITE UNSPECIFIED, CHRONIC OR UNSPECIFIED W/ HEMORRHAGE – W/ OBSTRUCTION
MENTION OF OBSTRUCTION
53361
PEPTIC ULCER, SITE UNSPECIFIED, CHRONIC OR UNSPECIFIED W/ HEMORRHAGE AND PERFORATION – W/
OBSTRUCTION
53400
GASTROJEJUNAL ULCER, ACUTE W/ HEMORRHAGE – W/O MENTION OF OBSTRUCTION
53420
GASTROJEJUNAL ULCER, ACUTE W/ HEMORRHAGE AND PERFORATION – W/O MENTION OF OBSTRUCTION
53421
GASTROJEJUNAL ULCER, ACUTE W/ HEMORRHAGE AND PERFORATION – W/ OBSTRUCTION
GASTROJEJUNAL ULCER, CHRONIC OR UNSPECIFIED W/ HEMORRHAGE – W/O MENTION OF OBSTRUCTION
GASTROJEJUNAL ULCER, CHRONIC OR UNSPECIEIED W/ HEMORRHAGE – W/ OBSTRUCTION
53460
GASTROJEJUNAL ULCER, CHRONIC OR UNSPECIFIED W/ HEMORRHAGE AND PERFORATION – W/O MENTION OF
OBSTRUCTION
GASTROJEJUNAL ULCER, CHRONIC OR UNSPECIFIED W/ HEMORRHAGE AND PERFORATION - W/ OBSTRUCTION
GASTRITIS AND DUODENITIS, ACUTE GASTRITIS W/ HEMORRHAGE
53511
GASTRITIS AND DUODENITIS, ATROPHIC GASTRITIS W/ HEMORRHAGE
GASTRITIS AND DUODENTITS, GASTRIC MUCOSAL HYPERTROPHY, W/ HEMORRHAGE
GASTRITIS AND DUODENITIS, ALCOHOLIC GASTRITIS, W/ HEMORRHAGE
53541
GASTRITIS AND DUODENITIS, OTHER SPECIFIED GASTRITIS – W/ HEMORRHAGE
53551
GASTRITIS AND DUODENTTIS, UNSPECIFIED GASTRITIS AND GASTRODUODENTTIS – W/ HEMORRHAGE
19390 I GASTRITIS AND DUODENITIS DUODENITIS – W/ HEMORRHAGE
53783
OTHER SPECIFIED DISORDERS OF STOMACH AND DUODENUM, ANGIODYSPLASIA OF STOMACH AND
DUODENUM – W/ HEMORRHAGE
DIEULAFUY LESION (HEMORRHAGIC) OF STOMACH AND DUODENUM
DIVERTICULOSIS OF SMALL INTESTINE – W/ HEMORRHAGE
56203
DIVERTICULITIS OF SMALL INTESTINE – W/ HEMORRHAGE
DIVERTICULUSIS OF CULUN – W/ HEMUKRHAGE
DIVERTICULITIS OF COLON – W/ HEMORRHAGE
5693
HEMORRHAGE OF RECTUM AND ANUS
56985

0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
ANGIODYSPLASIA OF INTESTINE - W/ HEMORRHAGE
56986
DIEULAFOY LESION (HEMORRHAGIC) OF INTESTINE
5780
GASTROINTESTINAL HEMORRHAGE, HEMATEMESIS
GASTRUINTESTINAL HEMORRHAGE, BLOUD IN STOUL
12/09 ICASTROINTESTINAL HEMORRHAGE HEMORRHAGE OF CASTROINTESTINAL TRACT LINSDECIEIED
ICD-9-CM Abortion-related Shock diagnosis codes:
63450
SPONTANEOUS ABORTION W/ SHOCK - UNSPECIFIED
63451
SPONTANEOUS ABORTION W/ SHOCK - INCOMPLETE
63452
SPONTANEOUS ABORTION W/ SHOCK - COMPLETE
63550
LEGAL ABORTION W/ SHOCK - UNSPECIFIED
LEGAL ABORTION W/ SHOCK - INCOMPLETE
U EGAL ABORTION W/ SHOCK - COMPLETE
63650
ILLEGAL ABORTION W/ SHOCK - UNSPECIFIED
63651
ILLEGAL ABORTION W/ SHOCK - INCOMPLETE
63652
ILLEGAL ABORTION W/ SHOCK - COMPLETE
ABORTION NOS W/ SHOCK - UNSPECIFIED
ABORTION NUS W/ SHOCK - INCOMPLETE
ABORTION NOS W/ SHOCK - COMPLETE
6385
ATTEMPTED ABORTION W/ SHOCK
FTR 6 - GI Hemorrhage/Acute Ulcer: Exclusions
• with a primary diagnosis of hemorrhage or acute ulcer (Defined in 2a.8)
with a primary diagnosis of trauma
with a primary diagnosis of alcoholism
• with a primary diagnosis of anemia
• MDC 6 (diseases and disorders of the digestive system)
• MDC 7 (diseases and disorders of the nepatobiliary system and pancreas)
Appendix G. Trauma Diagnosis Codes
PSI appendices at: http://www.gualitvindicators.ahrg.gov/downloads/nsi/TechSpecs42/PSI%20Appendices.ndf
ICD-9-CM Alcoholism diagnosis codes:
2910
ALCOHOL WITHDRAWAL DELIRIUM
2911
ALCOHOL AMNESTIC SYNDROME
2912
OTHER ALCOHOLIC DEMENTIA
ALCOHOL WITHDRAWAL HALLUCINUSIS

0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
2914
IDIOSYNCRATIC ALCOHOL INTOXICATION
2915
ALCOHOLIC JEALOUSY
29181
OTHER SPECIFIED ALCOHOLIC PSYCHOSES, ALCOHOL WITHDRAWAL
29182
ALCOHOL INDUCED SLEEP DISORDERS OCT05-
29189
OTHER SPECIFIED ALCOHOLIC PSYCHOSES, OTHER
UNSPECIFIED ALCOHOLIC PSTCHOSIS
30302
ACUTE ALCOHOLIC INTOXICATION - EPISODIC
30303
ACUTE ALCOHOLIC INTOXICATION - IN REMISSION
30390
OTHER AND UNSPECIFIED ALCOHOL DEPENDENCE - UNSPECIFIED
30391
OTHER AND UNSPECIFIED ALCOHOL DEPENDENCE - CONTINUOUS
30392
OTHER AND UNSPECIFIED ALCOHOL DEPENDENCE - EPISODIC
30393
OTHER AND UNSPECIFIED ALCOHOL DEPENDENCE - IN REMISSION
INONDEPENDENT ADUSE OF DRUGS, ALCONOL ADUSE - UNSPECIFIED
NONDEPENDENT ARUSE OF DRUGS, ALCOHOL, ARUSE - CONTINUOUS
30502
NONDEPENDENT ABUSE OF DRUGS, ALCOHOL ABUSE - EPISODIC
30503
NONDEPENDENT ABUSE OF DRUGS, ALCOHOL ABUSE – IN REMISSION
4255
ALCOHOLIC CARDIOMYOPATHY
53530
ALCOHOLIC GASTRITIS, W/O MENTION OF HEMORRHAGE
53531
ALCOHOLIC GASTRITIS, W/ HEMORRHAGE
5712
ALCOHOLIC CIRRHOSIS OF LIVER
5713
ALCOHOLIC LIVER DAMAGE. UNSPECIFIED
9800
TOXIC EFFECT OF ALCOHOL, ETHYL ALCOHOL
9809
TOXIC EFFECT OF ALCOHOL, UNSPECIFIED ALCOHOL
ICD-9-CM Anemia diagnosis codes:

	0351 Death among surgical inpatients with serious, treatable complications (PSI 4)
	2800 SECONDARY TO BLOOD LOSS [CHRONIC] 2851 ACUTE POSTHEMORRHAGIC ANEMIA
Risk Adjustment	risk adjustment method widely or commercially available The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) and covariates for gender, age in years (in 5-year age groups), modified CMS DRG and AHRQ Comorbidities. The reference population used in the model is the universe of discharges for states that participate in the HCUP State Inpatient Databases (SID) for the year 2007 (updated annually), a database consisting of 43 states and approximately 30 million adult discharges. The expected rate is computed as the sum of the predicted value for each case divided by the number of cases for the unit of analysis of interest (i.e., hospital, state, and region). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference population rate. URL http://qualityindicators.ahrq.gov/downloads/psi/PSI_Risk_Adjustment_Tables_(Version_4_2).pdf None
Stratification	User has an option to stratify by Gender, age (5-year age groups), race / ethnicity, primary payer, and custom stratifiers.
Type Score	Rate/proportion better quality = lower score
Algorithm	Each indicator is expressed as a rate, is defined as outcome of interest / population at risk or numerator / denominator. The AHRQ Quality Indicators (AHRQ QI) software performs five steps to produce the rates. 1) Discharge-level data is used to mark inpatient records containing the outcome of interest and 2) the population at risk. For provider indicators, the population at risk is also derived from hospital discharge records; for area indicators, the population at risk is derived from U.S. Census data. 3) Calculate observed rates. Using output from steps 1 and 2, rates are calculated for user-specified combinations of stratifiers. 4) Calculate expected rates. Regression coefficients from a reference population database are applied to the discharge records and aggregated to the provider or area level. 5) Calculate risk-adjusted rate. Use the indirect standardization to account for case-mix. 6) Calculate smoothed rate. A Univariate shrinkage factor is applied to the risk-adjusted rates. The shrinkage estimate reflects a reliability adjustment unique to each indicator. Full information on calculation algorithms and specifications can be found at http://qualityindicators.ahrq.gov/PSI_download.htm

	0515 Ambulatory surgery patients with appropriate method of hair removal
Steward	ASC Quality Collaboration 5686 Escondida Blvd S St. Petersburg Florida 33715
Description	Percentage of ASC admissions with appropriate surgical site hair removal.
Туре	Process
Data Source	Paper medical record/flow-sheet Facilities may review records such as a pre-surgical checklist, nursing notes, operating room record, and operative report as needed for documentation of method of hair removal. Clinical logs designed to capture information relevant to preoperative hair removal may also be used. No specific collection instrument is required, although the ASC Quality Collaboration has developed a sample data collection instrument that may be used as desired. Facilities may use any collection instrument that allows tracking of the method of hair removal for all admissions with surgical site hair removal. URL Not required http://ascquality.org/documents/ASCQualityCollaborationImplementationGuide.pdf Not required URL http://ascquality.org/documents/ASCQualityCollaborationImplementationGuide.pdf Not required
Level	Facility/Agency
Setting	Ambulatory Care: Amb Surgery Center
Numerator Statement	ASC admissions with surgical site hair removal with a razor or clippers from the scrotal area, or with clippers or depilatory cream from all other surgical sites
Numerator Details	Time Window: In-facility, prior to discharge DEFINITIONS: Admission: completion of registration upon entry into the facility
Denominator Statement	All ASC admissions with surgical site hair removal
Denominator Categories	Female; Male All ages
Denominator Details	Time Window: In-facility, prior to discharge

	0515 Ambulatory surgery patients with appropriate method of hair removal
	DEFINITIONS:
Exclusions	ASC admissions who perform their own hair removal
Exclusion Details	To collect data for the denominator exclusion, centers must track patients who perform their own hair removal
Risk	no risk adjustment necessary
Adjustment	Not applicable
Stratification	The measure is not stratified
Type Score	Rate/proportion better quality = higher score
Algorithm	 The number of admissions with surgical site hair removal is determined. The number of admissions who performed their own surgical site hair removal is determined. The value determined in step 1b is subtracted from the value determined in step 1a to yield the measure denominator. The number of admissions with appropriate surgical site hair removal (hair removal with razor or clippers from the scrotal area, or hair removal with clippers or depilatory cream from all other surgical sites) is determined. This value is the measure numerator. The number of ASC admissions with appropriate surgical site hair removal (step 2) is divided by the number of ASC admissions with surgical site hair removal (steps 1a through 1c) during the reporting period, yielding the rate of appropriate surgical site hair removal for the reporting period.

	0301 Surgery patients with appropriate hair removal
Steward	Centers for Medicare & Medicaid Services 7500 Security Boulevard, Mail Stop S3-01-02 Baltimore Maryland 21244- 1850
Description	Percentage of surgery patients with surgical hair site removal with clippers or depilatory or no surgical site hair removal.
Туре	Process
Data Source	Electronic administrative data/claims, Electronic Health/Medical Record, Paper medical record/flow-sheet Most facilities use vendors to collect the data electronically. CMS provides a free, downloadable tool called CART. A paper tool modeled after the data collected electronically is provided as an attachment. CART downloads can be found on QualityNet.org at http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier2&cid=1138900279093 Attachment SCIPCARTpapertool_10.01.10.doc URL http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier4&cid=1228754600169
Level	Can be measured at all levels, Facility/Agency, Population: National, Program: QIO
Setting	Hospital
Numerator Statement	Surgery patients with surgical hair site removal with clippers or depilatory or no surgical site hair removal
Numerator Details	Time Window: Admission to discharge. Data Elements: Preoperative Hair Removal Included Populations: An ICD-9-CM Principal Procedure Code of selected surgeries (as defined in Appendix A, Table 5.10 for ICD-9-CM codes).
Denominator Statement	All selected surgery patients Include patients with an ICD-9-CM Principal Procedure Codes of selected surgeries.
Denominator Categories	Female; Male 18 years of age and older
Denominator Details	Time Window: Admission to discharge
	Data Elements: Admission Date Anesthesia Start Date Birthdate Clinical Trial

	0301 Surgery patients with appropriate hair removal
	Discharge Date ICD-9-CM Principal Procedure Code Laparoscope Include patients with an ICD-9-CM Principal Procedure code or ICD-9-CM Other Procedure Codes of selected surgeries.
Exclusions	Excluded Populations: Patients less than 18 years of age Patients who have a length of Stay greater than 120 days Patients whose ICD-9-CM principal procedure was performed entirely by laparoscope. Patients enrolled in clinical trials Patients whose ICD-9-CM principal procedure occurred prior to the date of admission Patients who performed their own hair removal
Exclusion Details	The data elements include: Clinical Trial and Laparoscope. Affirmative answers to these data elements excludes the patient from the measure.
Risk Adjustment	no risk adjustment necessary N/A
Stratification	NA
Type Score	Rate/proportion better quality = higher score
Algorithm	 SCIP-Infection (Inf)-6: Surgery Patients with Appropriate Hair Removal Variable Key: Patient Age, Surgery Days 1. Start processing. Run cases that are included in the Surgical Care Improvement Project (SCIP) Initial Patient Population and pass the edits defined in the Transmission Data Processing Flow: Clinical through this measure. 2. Calculate Patient Age. The Patient Age, in years, is equal to the Admission Date minus the Birthdate. Use the month and day portion of admission date and birthdate to yield the most accurate age. 3. Check Patient Age a. If Patient Age is less than 18 years, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing. b. If Patient Age is greater than or equal to 18 years, continue processing and proceed to Laparoscope. 4. Check Laparoscope is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing. b. If Laparoscope is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing. b. If Laparoscope acuels 1 or 3, the case will proceed to a Measure Category Assignment of B and will not be in the Measure
	Population. Stop processing. c. If Laparoscope equals 2, continue processing and proceed to Clinical Trial. 5. Check Clinical Trial a. If Clinical Trial is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing.
	 b. If Clinical Trial equals Yes, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing. c. If Clinical Trial equals No, continue processing and proceed to Anesthesia Start Date. 6. Check Anesthesia Start Date a. If the Anesthesia Start Date is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing. b. If the Anesthesia Start Date equals Unable To Determine, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing. c. If Anesthesia Start Date equals Unable To Determine, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing. c. If Anesthesia Start Date equals a Non Unable To Determine Value, continue processing and proceed to the Surgery Days calculation. 7. Calculate Surgery Days. Surgery Days, in days, is equal to the Anesthesia Start Date minus the Admission Date. 8. Check Surgery Days a. If the Surgery Days is less than zero, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing. b. If the Surgery Days is greater than or equal to zero, continue processing and proceed to Preoperative Hair Removal. 9. Check Preoperative Hair Removal – Note: No allowable value can occur more than once. Allowable values of '1' or '7'

0301 Surgery patients with appropriate hair removal
a. If Preoperative Hair Removal is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing
b. If Any Preoperative Hair Removal equals 6, the case will proceed to a Measure Category Assignment of B and will not be
In the Measure Population. Stop processing. c. If Any Preoperative Hair Removal equals 1, 2, 3, 4, 5, 7, or 8 and None equals 6, continue processing and recheck
Preoperative Hair Removal.
a. If Any Preoperative Hair Removal equals 2, 5, or 7, the case will proceed to a Measure Category Assignment of D and will
be in the Measure Population. Stop processing.
Category Assignment of E and will be in the Numerator Population.

	1550 Hospital-level risk-standardized complication rate (RSCR) following elective primary total hip arthroplasty (THA) and total knee arthroplasty (TKA)
Steward	Centers for Medicare & Medicaid Services 7500 Security Boulevard, Mail Stop S3-01-02 Baltimore Maryland 21244- 1850
Description	This measure estimates hospital risk-standardized complication rates (RSCRs) associated with primary elective THA and TKA in patients 65 years and older. The measure uses Medicare claims data to identify complications occurring from the date of index admission to 90 days post date of the index admission.
Туре	Outcome
Data Source	 Electronic administrative data/claims The datasets used to create the measures are described below. 1. 2008 Part A (inpatient) data Part A inpatient data includes claims paid for Medicare inpatient hospital care, skilled nursing facility care, some home health agency services, and hospice care. For purposes of this project, Part A is used to refer to inpatient services only and includes data from 2 time periods: a. Index admission: Index admission data are based on the inclusion/exclusion criteria for THA/TKA, and comorbidities (if any) are identified from the secondary diagnoses associated with the index admission. b. Pre-index: 12 months prior to the index admission ("pre-index"). 2. 2008 Part A (outpatient) data – 12 months pre-index Hospital outpatient refers to Medicare claims paid for the facility component of surgical or diagnostic procedures, emergency room care, and other non-inpatient services performed in a hospital outpatient department or ambulatory surgical/diagnostic center. 3. Part B data – 12 months pre-index Part B data refers to Medicare claims for the services of physicians (regardless of setting) and other outpatient care, services, and supplies. For purposes of this project, Part B services included only face-to-face encounters between a care provider and patient. We thus do not include services such as laboratory tests, medical supplies, or other ambulatory services. 4. 2008 Medicare Enrollment Database This database contains Medicare beneficiary demographic, benefit/coverage, enrollment status on admission, and vital status information. These data have previously been shown to accurately reflect patient vital status (Fleming Fisher et al., 1992). Fleming C., Fisher ES, Chang CH, Bubolz D, Malenda J. Studying outcomes and hospital utilization in the elderly: The advantages of a merged data base for Medicare and Veterans Affairs Hospitals. Medical Care. 1992; 30(5): 377-91.
	http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier3&cid=1182785083979 N/A
Setting	
Numerator Statement	I his outcome measure does not have a traditional numerator and denominator like a core process measure (e.g., percentage of adult patients with diabetes aged 18-75 years receiving one or more hemoglobin A1c tests per year); thus, we are using this field to define the outcome (i.e. adverse events) following THA and/or TKA procedures. The composite complication is a binary outcome (yes for any complication(s); no for no complications). Therefore, if a patient experiences 1 or more complications, the outcome variable will get coded as a "yes." Complications are counted in the

	1550 Hospital-level risk-standardized complication rate (RSCR) following elective primary total hip arthroplasty					
	(TRA) and total knee arthropiasty (TRA)					
	measure only if they occur during the index hospital admission or during a readmission. The complications captured in the numerator are identified during the index admission or associated with a readmission up to 90 days post date of index admission, depending on the complication. The follow-up period for complications from date of index admission is as follows: 1) Mechanical complications - 90 days 2) Periprosthetic joint infection (PJI) - 90 days 3) Wound infection - 90 days 4) Surgical site bleeding - 30 days					
	5) Fullionary emponent - 50 days					
	0) Deallin - 50 days					
	8) Pneumonia - 7 days					
	9) Sensis/senticemia - 7 days					
Numerator	Time Window: The specific time frame for the complication varies (depending on the complication) from 7 to 00 days post					
Details	date of the index admission (see "Numerator Details").					
	Complications are identified using the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM) diagnosis and procedure codes. The complications listed below are counted in the measure if coded in the primary or secondary diagnosis fields during either the index admission or a readmission. Multiple complications count only once toward the numerator. For example, if a patient experiences a mechanical complication and also has an acute myocardial infarction, the combined events will be counted only once in the measure. ICD-9 diagnosis and procedure codes used to identify complications are listed below:					
	Complications identified from the date of index admission to 7 days post date of index admission:					
	Presence of one of the following diagnosis codes: 410 xx excluding 410 x2					
	2 Pneumonia					
	Presence of one of the following diagnosis codes: 480, 480.0, 480.1, 480.2, 480.3, 480.8, 480.9, 481, 482, 482.0, 482.1, 482.2, 482.3, 482.30, 482.31, 482.32, 482.39, 482.4, 482.40, 482.41, 482.42, 482.49, 482.81, 482.82, 482.83, 482.83, 482.84, 482.89, 483.0, 483.1, 483.8, 485, 486, 487.0, 507.0					
	3. Sepsis/Septicernia Presence of one of the following diagnosis codes: 038, 038.0, 038.1, 038.10, 038.11, 038.12, 038.19, 038.2, 038.3, 038.4, 038.40, 038.41, 038.42, 038.43, 038.44, 038.49, 038.8, 038.9, 785.52, 785.59, 790.7, 995.91, 995.92, 998.0, 998.59, 790.7, 038.40, 038.41, 038.42, 038.43, 038.44, 038.49, 038.8, 038.9, 785.52, 785.59, 790.7, 995.91, 995.92, 998.0, 998.59, 790.7, 038.41, 038.42, 038.44, 038.44, 038.49, 038.8, 038.9, 785.52, 785.59, 790.7, 995.91, 995.92, 998.0, 998.59, 790.7, 038.44, 038.					
	Complications identified from date of index admission to 30 days post date of index admission: 4. Pulmonary Embolism					
	Presence of one of the following diagnosis codes: 415.1, 415.11, 415.19 5. Surgical Site Bleeding					
	Presence of one of the following diagnosis codes: 998.1,998.11, 998.12, 998.13, 286.5, 719.10, 719.16, 719.17 AND the following procedure code: Incision and Drainage: 86.04					
	6. Death (Source: Medicare Enrollment Database)					
	Complications identified from date of index admission to 90 days post date of index admission:					
	Presence of one of the following diagnosis codes: 998.6, 998.83, 998.30, 998.31, 998.32, 998.33, 998.5, 998.51, 998.59, 996.67					
	AND at least one of the following procedure codes: Incision and Drainage: 86.22, 86.28, 86.04 Revision: 81.53, 81.55, 81.59, 00.70, 00.71, 00.72, 00.73, 00.80, 00.81, 00.82, 00.83, 00.84					
	Removal: 80.05, 80.06, 80.09					
	8. Periprosthetic Joint Infection					
	Presence of the following diagnosis code: 996.66					
	AND at least one of the following procedure codes:					
	Incision and Drainage: 86.22, 86.28, 86.04					
	revision: 01.00, 01.00, 01.09, 00.70, 00.71, 00.72, 00.73, 00.80, 00.87, 00.82, 00.83, 00.84					
	1550 Hospital-level risk-standardized complication rate (RSCR) following elective primary total hip arthroplasty					
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	(ITA) and total knee arthropiasty (ITA) Removal: 80.05. 80.06. 80.00					
	9 Mechanical Complication					
	Presence of one of the following diagnosis codes: 996.4, 996.40, 996.41, 996.42, 996.44, 996.47, 996.49					
Denominator Statement	The target population for this measure includes admissions for patients at least 65 years of age undergoing elective primary THA and/or TKA procedures.					
Denominator Categories	Female; Male 65 years of age and older					
Denominator Details	Time Window: This measure was developed using claims data from calendar year 2007 and 2008. The time period for public reporting has not been determined.					
	The denominator includes patients aged 65 and older admitted to non-federal acute care hospitals for an elective, primary THA and/or TKA in 2007 and 2008. Patients are eligible for inclusion in the denominator if they had a THA and/or a TKA AND had continuous enrollment in Medicare FFS one year prior to the date of index admission. This cohort is defined using the following ICD-9-CM procedure codes identified in Medicare Part A Inpatient claims data: 81.51 Total Hip Arthroplasty 81.54 Total Knee Arthroplasty					
Exclusions	Patients will be excluded from the cohort if they meet any of the followed criteria:					
	 Patients with hip fractures Presence of one of the following diagnosis codes: 733.1, 733.10, 733.14, 733.15, 733.19, 733.8, 733.81, 733.82, 733.95, 733.96, 733.97, 808.0, 808.1, 820.00, 820.01, 820.02, 820.03, 820.09, 820.10, 820.11, 820.12, 820.13, 820.19, 820.20, 820.21, 820.22, 820.30, 820.31, 820.32, 820.8, 820.9, 821, 821.0, 821.00, 821.01, 821.1, 821.10, 821.11 Rationale: Patients with hip fractures have higher mortality, complication and readmission rates and the procedure (THA) is not elective. 					
	2. Patients undergoing revision procedures (with or without a concurrent THA/TKA) Presence of one of the following diagnosis codes: 81.53, 81.55, 81.59, 00.70, 00.71, 00.72, 00.73, 00.80, 00.81, 00.82,					
	00.83, 00.84 Rationale: Revision procedures may be performed at a disproportionately small number of hospitals and are associated					
	 Patients undergoing partial hip arthroplasty procedures (with or without a concurrent THA/TKA) Presence of the following diagnosis code: 81.52 					
	Rationale: Partial arthroplasties are primarily done for hip fractures and are typically performed on patients who are older, more frail, and with more comorbid conditions.					
	4. Patients undergoing resuracing procedures (with or without a concurrent THATTKA) Presence of one of the following diagnosis codes: 00.85, 00.86, 00.87 Rationale: Resurfacing procedures are a different type of procedure which are typically performed on younger, healthier					
	patients.					
	Rationale: If the patient is transferred from another acute care facility to the hospital where the index procedure occurs, it is likely that the procedure is not elective. 6. Patients who leave the hospital against medical advice (AMA)					
	Rationale: Hospitals and physicians do not have the opportunity to provide the highest quality care. 7. Patients with more than two THA/TKA procedure codes during the index hospitalization					
	Rationale: Patients with more than two procedure codes for THA/TKA are excluded because it is rare that a patient would have 3 arthroplasty procedures done at one time. This is likely to be a coding error.					
	8. Patients with multiple admissions for THA/TKA in the 12 months studied; one hospitalization per patient was randomly selected for inclusion after applying the other exclusion criteria					
	kalionale: Admissions for the same patient are statistically dependent and it is preferable to include one admission per year in the measure.					
Exclusion Details	See "Denominator Exclusion" section					
Risk Adjustment	risk-adjustment devised specifically for this measure/condition The measure estimates hospital-level RSCRs using hierarchical logistic regression models. In brief, the approach simultaneously models outcomes at two levels (patient and hospital) to account for the variance in patient outcomes within					

	1550 Hospital-level risk-standardized complication rate (RSCR) following elective primary total hip arthroplasty (THA) and total knee arthroplasty (TKA)				
	and between hospitals (Normand et al., 2007). At the patient level, the model adjusts the log-odds of a complication for age, sex, and selected clinical covariates. The second level models the hospital-specific intercepts as arising from a normal distribution. The hospital intercept represents the underlying risk of complication at the hospital, after accounting for case mix. If there were no differences among hospitals, then after adjusting for case mix, the hospital intercepts should be identical across all hospitals.				
	The measure adjusts for key variables that were clinically relevant and had strong relationships with the outcome (e.g. demographic factors, disease severity indicators, and indicators of frailty). For each patient, covariates are obtained from Medicare claims extending 12 months prior to and including the index admission. The model adjusts for case mix differences based on the clinical status of the patient at the time of admission. We use condition categories (CCs), which are clinically meaningful groupings of more than 15,000 ICD-9-CM diagnosis and procedure codes. Conditions that may represent adverse outcomes due to care received during the index admission are not considered for inclusion in the risk adjusted model. Although they may increase the risk of mortality and complications, including them as covariates in a risk-adjusted model could attenuate the measure's ability to characterize the quality of care delivered by hospitals. Hence, these conditions are not adjusted for if they only appear in the index admission and not in the 12 months prior to admission. The risk adjustment model included 33 variables which are listed below:				
	1. Age-65 (years above 65, continuous) 2. Sex				
	THA/TKA Procedure 3. THA procedure 4. Number of procedures performed				
	Clinical Risk Factors 5. Skeletal deformities (ICD-9 code 755.63) 6. Post traumatic osteoarthritis (ICD-9 codes 716.15, 716.16) 7. Morbid obesity (ICD-9 code 278.01) 8. Metastatic cancer and acute leukemia (CC 7)				
	 9. Cancer (CC 8-10) 10. Respiratory/Heart/Digestive/Urinary/Other Neoplasms (CC 11-13) 11. Diabetes and DM complications (CC 15-20,119,120) 12. Protein calorie maloutrition (CC 21) 				
	 Bone/Joint/Muscle Infections/Necrosis (CC 37) Rheumatoid Arthritis and Inflammatory Connective Tissue Disease (CC 38) Osteoarthritis of hip and knee (CC 40) 				
	 Osteoporosis and Other Bone/Cartilage Disorders (CC 41) Dementia and senility (CC 49, 50) Major psychiatric disorders (CC 54-56) Hemiplegia, paraplegia, paralysis, function disability (CC 67-69, 100-102, 177-178) 				
	 Cardio-respiratory failure and shock (CC 79) Chronic atherosclerosis (CC 83-84) Stroke (CC 95, 96) Vascular or circulatory disease (CC 104-106) 				
	 24. COPD (CC 108) 25. Pneumonia (CC 111-113) 26. Pleural effusion/pneumothorax (CC 114) 				
	 End-stage renal disease or dialysis (CC 129, 130) Renal Failure (CC 131) Decubitus ulcer or chronic skin ulcer (CC 148, 149) 				
	 30. Trauma (CC 154-156,158-161) 31. Vertebral Fractures (CC 157) 32. Other injuries (CC 162) 33. Major complications of medical care and trauma (CC 164) 				
	Normand S-LT, Shahian DM. 2007. Statistical and Clinical Aspects of Hospital Outcomes Profiling. Stat Sci 22 (2): 206-226. Attachment THA-TKA Complications Technical Report.pdf				
Stratification	I his measure is not stratified.				

	1550 Hospital-level risk-standardized complication rate (RSCR) following elective primary total hip arthroplasty (THA) and total knee arthroplasty (TKA)
Type Score	Rate/proportion better quality = lower score
Algorithm	The RSCR is calculated as the ratio of the number of "predicted" to the number of "expected" complications, multiplied by the national unadjusted complication rate. For each hospital, the "numerator" of the ratio is the number of complications predicted on the basis of the hospital's performance with its observed case mix, and the "denominator" is the number of complications expected on the basis of the nation's performance with that hospital's case mix. This approach is analogous to a ratio of "observed" to "expected" used in other types of statistical analyses. It conceptually allows for a comparison of a particular hospital's performance given its case-mix to an average hospital's performance with the same case-mix. Thus a lower ratio indicates lower-than-expected complication or better quality and a higher ratio indicates higher-than-expected complication or worse quality. The predicted hospital outcome (the numerator) is calculated by regressing the risk factors and the hospital-specific intercept on the risk of complications, multiplying the estimated regression coefficients by the patient characteristics in the hospital, transforming, and then summing over all patients attributed to the hospital to get a value. The expected number of complications outcome using all hospitals in our sample, multiplying the subsequent estimated regression coefficients by the patients by the patient characteristics observed in the hospital, transforming, and then summing over all patients and then summing over all patients in the hospital to get a value. Please see attachment for more details on the calculation algorithm.

	1551 Hospital-level 30-day all-cause risk-standardized readmission rate (RSRR) following elective primary total hip arthroplasty (THA) and total knee arthroplasty (TKA)				
Steward	Centers for Medicare & Medicaid Services 7500 Security Boulevard, Mail Stop S3-01-02 Baltimore Maryland 21244- 1850				
Description	This measure estimates hospital 30-day RSRRs following elective primary THA and TKA in patients 65 years and older. The measure uses Medicare claims data to develop a hospital-level RSRR for THA and TKA and will include patients readmitted for any reason within 30 days of discharge date of the index admission. Some patients are admitted within 30 days of the index hospitalization to undergo another elective THA/TKA procedure. These are considered planned readmissions and are NOT counted in the measure as readmissions.				
Туре	Outcome				
Data Source	Electronic administrative data/claims We obtained index admission, readmission, and in-hospital comorbidity data from Medicare's Standard Analytic File (SAF). Comorbidities were also assessed using Part A inpatient, outpatient, and Part B office visit Medicare claims in the 12 months prior to index admission. Enrollment and post-discharge mortality status were obtained from Medicare's enrollment database which contains beneficiary demographic, benefit/coverage, and vital status information. 1. 2008 Part A (inpatient) data Part A inpatient data includes claims for Medicare inpatient hospital care, skilled nursing facility care, some home health agency services, and hospice care. For purposes of this project, Part A is used to refer to inpatient services only and includes data from 2 time periods: a. Index admission: Index admission data are based on the inclusion/exclusion criteria for THA/TKA, and comorbidities (if any) are identified from the secondary diagnoses associated with the index admission. b. Pre-index: 12 months prior to the index admission ("pre-index"). 2. 2008 Part A (outpatient) data – 12 months pre-index Hospital outpatient refers to Medicare claims paid for the facility component of surgical or diagnostic procedures, emergency room care, and other non-inpatient services performed in a hospital outpatient department or ambulatory surgical/diagnostic center. 3. Part B data – 12 months pre-index Part B data refers to Medicare claims for the services of physicians (regardless of setting) and other outpatient care, services, and supplies. For purposes of this project, Part B services included only face-to-face encounters between a care provider and patient. We thus do not include services such as laboratory tests, medical supplies, or other ambulatory services. URL http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier3&cid=1182785083979 N/A				
Level	Facility/Agency				
Setting	Hospital				

	1551 Hospital-level 30-day all-cause risk-standardized readmission rate (RSRR) following elective primary total hip					
	arthroplasty (THA) and total knee arthroplasty (TKA)					
Numerator	This outcome measure does not have a traditional numerator and denominator like a core process measure (e.g., percentage					
Statement	of adult patients with diabetes aged 18-75 years receiving one or more hemoglobin A1c tests per year); thus, we are using					
	this field to define readmissions.					
	The outcome for this measure is a readmission to any acute care hospital, for any reason occurring within 30 days of the					
	discharge date of the index hospitalization. We do not count planned readmissions in the outcome (see numerator details).					
Numerator	Time Window 20 days from discharge date of index begaitalization					
Details						
Dotano	A readmission to any acute care hospital for any reason within 30 days of the discharge date of index hospitalization.					
	Planned (elective) readmissions: We do not count readmissions in the measure that are associated with a subsequent					
	"planned" THA/TKA procedure within 30-days of discharge from index hospitalization. Some patients may elect to stage their					
	orthopedic replacement procedures across hospitalizations (for example, a patient may have the left and right knees replaced					
	within one or two weeks of each other, potentially across multiple hospitalizations). In consultation with an expert panel we					
	define planned readmissions as a second admission with an ICD-9 procedure code for THA or TKA AND a primary discharge					
	diagnosis of osteparthritis, rheumatoid arthritis, ostephecrosis, or arthropathy (excluding sentic arthropathy)					
	The criteria for identifying a subsequent planned THA and/or TKA is as follows:					
	Admission with at least one of the following ICD-9 procedure codes within 30 days of discharge date of index					
	hospitalization:					
	81 51 – Primary total hip replacement					
	81 54 – Primary total knee replacement AND					
	2. A principal diagnosis code of one the following ICD-9 codes for osteoarthritis, rheumatoid arthritis, osteonecrosis, or					
	arthropathy:					
	• 714, 714,0, 714,1, 714,2, 714,3, 714,30, 714,31, 714,32, 714,33, 714,4, 714,8, 714,89, 714,9, 715, 715,0, 715,00,					
	715.09, 715.1, 715.10, 715.15, 715.16, 715.18, 715.2, 715.20, 715.25, 715.26, 715.28, 715.3, 715.30, 715.35, 715.36					
	715 38 715 8 715 80 715 89 715 9 715 90 715 95 715 96 715 98 716 5 716 50 716 55 716 56 716 58 716 59 716 59					
	716.80, 716.85, 716.86, 716.88, 716.89, 716.90, 716.90, 716.95, 716.96, 716.98, 716.99, 733.42, 733.43					
Denominator	The target population for this measure includes admissions for patients at least 65 years of age undergoing primary THA					
Statement	and/or TKA procedures					
Denominator	Employ Male, GE years of any and alder					
Cetegories	ו פווומוס, ואומוס טט אַכמוס טו מעָכ מווע טועסו					
Categories						
Denominator	Time Window: This measure was developed using claims data from calendar year 2007 and 2008. The time period for public					
Detalls	reporting has not been determined.					
	The dependencing of the second of and older admitted to per forderal courts are been itals for an elective, primary					
	The denominator includes patients aged 65 and older admitted to non-rederal acute care nospitals for an elective, primary					
	THA and/or TKA in 2007 and 2008. Patients are eligible for inclusion in the denominator if they had a THA and/or a TKA AND					
	This schort is defined using the following ICD 0. CM precedure codes identified in Medicare Dart A Innetiant claims date.					
	1 nis conort is defined using the following ICD-3-CM procedure codes identified in Medicare Part A Inpatient claims data.					
	01.51 Total File Arthroplasty					
Exclusions	Patients will be excluded from the cohort if they meet any of the followed criteria:					
	[733.90, 733.97, 606.0, 606.1, 620.00, 620.01, 620.02, 620.03, 620.09, 620.10, 620.11, 620.12, 620.13, 620.19, 620.20,					
	020.21, 020.22, 020.30, 020.31, 020.32, 020.0, 020.9, 021, 021.0, 021.00, 021.01, 021.11, 021.10, 021.11					
	(TLA) is generally not elective.					
	I(I TIA) is generally not elective.					
	2. Patients undergoing revision procedures (with or without a concurrent THA/TKA)					
	resence of one of the following procedure codes: \$1.55, \$1.55, \$1.55, \$0.70, 00.71, 00.72, 00.73, 00.80, 00.81, 00.82,					
	100.03, 00.04					
	Rationale: Revision procedures may be performed at a disproportionately small number of hospitals and are associated with					
	Inigner mortaility, complication, and readmission rates.					
	3. Patients undergoing partial nip arthropiasty procedures (with or without a concurrent THA/TKA)					
	Presence of the following procedure code: 81.52					
	Rationale: Partial arthroplasties are primarily done for hip fractures and are typically performed on patients who are older,					

	1551 Hospital-level 30-day all-cause risk-standardized readmission rate (RSRR) following elective primary total hip arthroplasty (THA) and total knew arthroplasty (TKA)					
	antinoplasty (THA) and total knee antinoplasty (TKA)					
	Inore irall, and with more comorbid conditions. 4. Patients undergoing resurfacing procedures (with or without a concurrent THA/TKA)					
	Presence of one of the following procedure codes: 00.85, 00.86, 00.87					
	Rationale: Resurfacing procedures are a different type of procedure which are typically performed on younger, healthier natients					
	patients. 5. Patients without at least 30-days post-discharge enrolment in Medicare					
	Rationale: The 30-day readmission outcome cannot be assessed for the standardized time period. 6. Patients who are transferred in to the index hospital					
	Rationale: If the patient is transferred from another acute care facility to the hospital where the index procedure occurs, it is					
	likely that the procedure is not elective.					
	7. Patients who were admitted for the index procedure and subsequently transferred to another acute care facility					
	Rationale: Attribution of readmission to the index hospital would not be possible in these cases, since the index hospital					
	performed the procedure but another hospital discharged the patient to the non-acute care setting.					
	8. Patients who leave against medical advice (AMA)					
	Rationale: Hospitals and physicians do not have the opportunity to provide the highest quality care for these patients.					
	9. Patients with more than two THA/TKA procedures codes during the index hospitalization					
	Rationale: Patients with more than two procedure codes for THA/TKA are excluded because it is rare that a patient would					
	have 3 arthroplasty procedures done at one time. This is likely to be a coding error.					
	10. Patients who die during the index admission					
	Rationale: Patients who die during the initial hospitalization are not eligible for readmission.					
	Additional otherwise qualifying THA and/or TKA admissions that occurred within 30 days of discharge date of an earlier index					
	admission are not considered as index admission. They are considered as potential readmissions. Any THA and/or TKA					
	admission is either an index admission or a potential readmission, but not both.					
Exclusion	See "Denominator Exclusion" section					
Detalls						
Risk	risk-adjustment devised specifically for this measure/condition					
Adjustment	The measure estimates hospital-level 30-day all-cause RSRRs using hierarchical logistic regression models. In brief, the					
	approach simultaneously models outcomes at two levels (patient and hospital) to account for the variance in patient					
	policomes within and between hospitals (Normand et al., 2007). To model the log-odds of 50-day all-cause readmission at the					
	Intercents as arising from a normal distribution. The hospital intercent represents the underlying risk of readmission at the					
	hospital, after accounting for case mix. If there were no differences among hospitals, then after adjusting for case mix, the					
	hospital intercepts should be identical across all hospitals.					
	The measure adjusts for key variables that are clinically relevant and have strong relationships with the outcome (e.g.					
	demographic factors, disease severity indicators, and indicators of frailty). For each patient, covariates are obtained from					
	Medicare claims extending 12 months prior to and including the index admission. The model adjusts for case mix differences					
	based on the clinical status of the patient at the time of admission. We use condition categories (CCs), which are clinically					
	meaningful groupings of more than 15,000 ICD-9-CM diagnosis and procedure codes. We do not risk-adjust for CCs that are					
	possible adverse events of care and that are only recorded in the index admission. In addition, only comorbidities that convey					
	information about the patient at that time or in the 12-months prior, and not complications that arise during the course of the					
	hospitalization are included in the risk-adjustment. The risk adjustment model included 33 variables which are listed below:					
	Demographics					
	1. Age-65 (years above 65, continuous)					
	TRA/THA Procedure					
	J. Number of procedures (2 vs 1)					
	Clinical Risk Factors					
	5 History of Infection (CC 1 3-6)					
	6. Metastatic cancer and acute leukemia (CC 7)					
	7. Cancer (CC 8-12)					
	8. Diabetes and DM complications (CC 15-20, 119, 120)					
	9. Protein-calorie malnutrition (CC 21)					
	10. Disorders of Fluid/Electrolyte/Acid-Base (CC 22, 23)					
	 Age-65 (years above 65, continuous) Sex TKA/THA Procedure THA procedure Number of procedures (2 vs.1) Clinical Risk Factors History of Infection (CC 1, 3-6) Metastatic cancer and acute leukemia (CC 7) Cancer (CC 8-12) Diabetes and DM complications (CC 15-20, 119, 120) Diabetes and DM complications (CC 024) 					

	1551 Hospital-level 30-day all-cause risk-standardized readmission rate (RSRR) following elective primary total hip arthroplasty (THA) and total knee arthroplasty (TKA)					
	11 Phoumatoid Arthritis and Inflammatory Connective Tissue Disease (CC 38)					
	12 Severe Hematological Disorders (CC 44)					
	13 Dementia and senility (CC 49, 50)					
	14. Major psychiatric disorders (CC 54-56)					
	15. Hemiplegia, paraplegia, paralysis, functional disability (CC 67-69, 100-102, 177-178)					
	16. Polyneuropathy (CC 71)					
	17. Congestive Heart Failure (CC 80)					
	18. Chronic Atherosclerosis (CC 83-84)					
	19. Hypertension (CC 89, 91)					
	20. Arrhythmias (CC 92, 93)					
	21. Stroke (CC 95, 96)					
	22. Vascular or circulatory disease (CC 104-106)					
	23. COPD (CC 108)					
	24. Pneumonia (CĆ 111-113)					
	25. End-stage renal disease or dialysis (CC 129, 130)					
	26. Renal Failure (CC 131)					
	27. Decubitus ulcer or chronic skin ulcer (CC 148, 149)					
	28. Cellulitis, Local Skin Infection (CC 152)					
	29. Other Injuries (CC162)					
	30. Major Symptoms, Abnormalities (CC 166)					
	31. Skeletal Deformities (ICD-9 code 755.63)					
	32. Post Traumatic Osteoarthritis (ICD-9 codes 716.15, 716.16)					
	[33. Morbid Obesity (ICD-9 code 278.01)					
	Normand S-LT, Shahian DM. 2007. Statistical and Clinical Aspects of Hospital Outcomes Profiling. Stat Sci 22 (2): 206-226.					
	Attachment THA-TKA Readmission Technical Report.pdf					
Stratification	This measure is not stratified.					
Type Score	Rate/proportion better quality = lower score					
	national unadjusted readmission rate. For each hospital, the "numerator" of the ratio is the number of readmissions within 30 days predicted on the basis of the hospital's performance with its observed case mix, and the "denominator" is the number of readmissions expected on the basis of the nation's performance with that hospital's case mix. This approach is analogous to a ratio of "observed" to "expected" used in other types of statistical analyses. It conceptually allows for a comparison of a particular hospital's performance given its case-mix to an average hospital's performance with the same case-mix. Thus a lower ratio indicates lower-than-expected readmission or better quality and a higher ratio indicates higher-than-expected readmission or better quality and a higher ratio indicates higher-than-expected readmission or better quality and a higher ratio indicates higher-than-expected readmission or better quality and a higher ratio indicates higher-than-expected readmission or better quality and a higher ratio indicates higher-than-expected readmission or better quality and a higher ratio indicates higher-than-expected readmission or better quality and a higher ratio indicates higher-than-expected readmission or better quality and a higher ratio indicates higher-than-expected readmission or worse quality. The predicted hospital outcome (the numerator) is calculated by regressing the risk factors and the hospital-specific intercept on the risk of readmission, multiplying the estimated regression coefficients by the patient characteristics in the hospital, transforming, and then summing over all patients attributed to the hospital to get a value. The expected number of readmission outcome using all hospitals in our sample, multiplying the subsequent estimated regression coefficients by the patient the text.					
	Please see attachment for more details on the calculation algorithm.					

	1536 Cataracts: Improvement in patient's visual function within 90 days following cataract surgery				
Steward	American Academy of Ophthalmology and Hoskins Center for Quality Eye Care 655 Beach Street San Francisco California, 94109-1336				
Description	Percentage of patients aged 18 years and older who had cataract surgery and had improvement in visual function achieved within 90 days following the cataract surgery				
Туре	Outcome				
Data Source	Patient Reported Data/Survey The data collection instrument is specified as an assessment tool that has been appropriately validated for the population for which it being used. Examples of tools for visual function assessment include, but are not limited to: National Eye Institute-Visual Function Questionnaire (VFQ), the Visual Function (VF)-14, the modified VF-8, the				

	1536 Cataracts: Improvement in patient's visual function within 90 days following cataract surgery				
	Activities of Daily Vision Scale (ADVS), the Catquest and the modified Catquest-9. For this measure, we are proposing the Rasch-scaled short version of the VF-14, otherwise referred to as the VF-8R hereafter. Attachment VF8 Pesudovs.pdf				
Level	Clinician: Individual				
Setting	Ambulatory Care: Ambulatory Surgery Center (ASC), Ambulatory Care: Clinic/Urgent Care, Ambulatory Care: Clinician Office				
Numerator Statement	Patients 18 years and older in sample who had improvement in visual function achieved within 90 days following cataract surgery, based on completing a pre-operative and post-operative visual function instrument				
Numerator Details	Time Window: One year Patients 18 years and older in sample who had an improvement in their visual function achieved within 90 days following				
	cataract surgery Patients in sample who completed a pre-operative and post-operative visual function instrument, and with the CPT Procedure Codes (with or without modifiers): 66840, 66850, 66852, 66920, 66930, 66940, 66982, 66983, 66984				
Denominator Statement	All patients aged 18 years and older in sample who had cataract surgery				
Denominator Categories	Female; Male 18 years and older				
Denominator Details	Time Window: One year				
	Denominator (Eligible Population): All patients aged 18 years and older in sample who had cataract surgery • CPT Procedure Codes (with or without modifiers): 66840, 66850, 66852, 66920, 66930, 66940, 66982, 66983, 66984				
Exclusions					
Exclusion Details					
Risk Adjustment	no risk adjustment necessary A risk adjustment methodology is not necessary if the stratification schema is utilized, as described above.				
Stratification	This measure can be stratified into two major groups: those patients with ocular co-morbidities and those patients without ocular co-morbidities. An improvement in visual function after cataract surgery would be expected in both groups, however the magnitude of the difference would vary by group. The Cataract Patient Outcomes Research Team found that an important preoperative patient characteristic that was independently associated with failure to improve on one of the outcomes measured (including the VF-14) was ocular comorbidity. The authors explained that this was expected, because it is reasonable to assume that other diseases that impair visual function would be correlated with a reduced improvement in functional status. The National Eye Care Outcomes Network also found that there were differences in the mean postooperative VF-14 scores across groups of patients with and without ocular co-morbidities, as seen in the table below. The study involving the Rasch-scaled short version of the VF-14 also found differences between the preoperative visual function tests, as seen below. National Eyecare Outcomes Network Mean VF-14 (postoperative) - Total 92.7 - With ocular comorbidity 89.9 - Without ocular comorbidity 99.6 Rasch-Scaled Short Version of the VF-14 Patients without ocular comorbidity - Preop VF-8R - 68.87 Postop VF-8R - 86.22 Mean Diff = 17.35 Patients with Ocular Comorbidity - Preop VF-8R - 67.71 Postop VF-8R - 81.58 Mean Diff = 13.87 A list of codes for comorbidities can be found in the AMA PCPI measure for 20/40 visual acuity after cataract surgery: Acute and subacute indocvolits 364.00				

1536 Cataracts: Improvement in patien	1536 Cataracts: Improvement in patient's visual function within 90 days following cataract surgery					
Acute and subacute iridocyclitis 3	62.02					
Acute and subacute iridocyclitis 3	64.03					
Acute and subacute iridocyclitis 3	64.04					
Acute and subacute iridocyclitis 3	64.05					
Amblyopia 368.01						
Amblyopia 368.02						
Amblyopia 368.03						
Burn confined to eye and adnexa 9	40.0					
Burn confined to eye and adnexa 9-	40.1					
Burn confined to eye and adnexa 9	40.2					
Burn confined to eye and adnexa 9-	40.3					
Burn confined to eye and adnexa 9-	40.4					
Burn confined to eye and adnexa 9	40.5					
Burn confined to eye and adnexa 9	40.9					
Cataract secondary to ocular disorders 3	66.32					
Cataract secondary to ocular disorders 3	66.33					
Certain types of iridocyclitis 364.21						
Certain types of iridocyclitis 364.22						
Certain types of iridocyclitis 364.23						
Certain types of iridocyclitis 364.24						
Certain types of iridocyclitis 364.3						
Choroidal degenerations 363.43						
Choroidal detachment 363.72						
Choroidal hemorrhage and rupture 3	63.61					
Choroidal hemorrhage and rupture 3	63.62					
Choroidal hemorrhage and rupture 3	63.63					
Chorioretinal scars 363.30						
Chorioretinal scars 363.31						
Chorioretinal scars 363.32						
Chorioretinal scars 363.33						
Chorioretinal scars 363.35						
Chronic iridocyclitis 364.10						
Chronic iridocyclitis 364.11						
Cloudy cornea 371.01						
Cloudy cornea 371.02						
Cloudy cornea 371.03						
Corpol odorno 371.04						
Corneal edema 3/1.20						
Corneal edema 371.21						
Corneal edema 371.22						
Corneal edema 371.23						
Corneal edema 371 //						
Corneal opacity and other disorders of as	vrnea 371.00					
Corneal opacity and other disorders of co	vinca 071.00 vinca 371.03					
Corneal opacity and other disorders of co	vinea 371.04					
Degenerative disorders of dobe	60.20					
Degenerative disorders of globe	60.20					
Degenerative disorders of globe	60.23					
Degenerative disorders of globe	60.20					
Degenerative disorders of globe	60.24 60.29					
Degeneration of macula and nosterior po	le 362.50					
Degeneration of macula and posterior po	le 362.50					
Degeneration of macula and posterior po	le 362.57					
Degeneration of macula and posterior po	le 362.52					

1536 Cataracts: Improvement in patient's visual function within 90 days following cataract surgery				
Degeneration of macula and posterior pole	362.54			
Degeneration of macula and posterior pole	362.55			
Degeneration of macula and posterior pole	362.56			
Degeneration of macula and posterior pole	362.57			
Disseminated chorioretinitis and disseminated re	tinochoroiditis	363.10		
Disseminated chorioretinitis and disseminated re-	inochoroiditis	363.11		
Disseminated chorioretinitis and disseminated re-	inochoroiditis	363.12		
Disseminated chorioretinitis and disseminated re-	inochoroiditis	363.13		
Disseminated chorioretinitis and disseminated re-	inochoroiditis	363.14		
Disseminated chorioretinitis and disseminated re-	inochoroiditis	363.15		
Diabetic retinopathy 362.01				
Diabetic retinopathy 362.02				
Diabetic retinopathy 362.03				
Diabetic retinopathy 362.04				
Diabetic retinopathy 362.05				
Diabetic retinopathy 362.06				
Diabetic macular edema 362.07				
Disorders of optic chiasm 377.51				
Disorders of optic chiasm 377.52				
Disorders of optic chiasm 377.53				
Disorders of optic chiasm 377.54				
Disorders of visual cortex 377.75				
Focal chorioretinitis and focal retinochoroiditis	363.00			
Focal chorioretinitis and focal retinochoroiditis	363.01			
Focal chorioretinitis and focal retinochoroiditis	363.03			
Focal chorioretinitis and focal retinochoroiditis	363.04			
Focal chorioretinitis and focal retinochoroiditis	363.05			
Focal chorioretinitis and focal retinochoroiditis	363.06			
Focal chorioretinitis and focal retinochoroiditis	363.07			
Focal chorioretinitis and focal retinochoroiditis	363.08			
Glaucoma 365.10				
Glaucoma 365.11				
Glaucoma 365.12				
Glaucoma 305.13				
Glaucoma 305.14				
Glaucoma 305.15				
Glaucoma 305.20				
Glaucoma 365.22				
Claucoma 265.24				
Glaucoma 365.31				
Glaucoma 365.32				
Glaucoma 365.51				
Glaucoma 365.52				
Glaucoma 365.52				
Glaucoma associated with concenital anomalies	dystrophies and sy	stamic syndromas	365 /1	
Glaucoma associated with concentral anomalies,	dystrophies, and sy	stemic syndromes	365 42	
Glaucoma associated with congenital anomalies,	dystrophies and sy	stemic syndromes	365 43	
Glaucoma associated with congenital anomalies,	dystrophies and sy	stemic syndromes	365 44	
Glaucoma associated with congenital anomalies,	dystrophies and sy	stemic syndromes	365.60	
Glaucoma associated with concentral anomalies,	dystrophies and sy	stemic syndromes	365.61	
Glaucoma associated with congenital anomalies,	dystrophies and sy	stemic syndromes	365.62	
Glaucoma associated with congenital anomalies	dystrophies, and sy	stemic syndromes	365.63	
Glaucoma associated with congenital anomalies.	dystrophies, and sy	stemic syndromes	365.64	
J		,		

1536 Cataracts: Improvement in patient's visual function within 90 days following cataract surgery				
Glaucoma associated with congenital anomalies, dystrophies, and s	systemic syndromes	365.65		
Glaucoma associated with congenital anomalies, dystrophies, and s	systemic syndromes	365.81		
Glaucoma associated with congenital anomalies, dystrophies, and s	systemic syndromes	365.82		
Glaucoma associated with congenital anomalies, dystrophies, and s	systemic syndromes	365.83		
Glaucoma associated with congenital anomalies, dystrophies, and s	systemic syndromes	365.89		
Glaucoma associated with congenital anomalies, dystrophies, and s	systemic syndromes	365.9		
Hereditary corneal dystrophies 371.50	- , ,			
Hereditary corneal dystrophies 371.51				
Hereditary corneal dystrophies 371.52				
Hereditary corneal dystrophies 371.53				
Hereditary corneal dystrophies 371.54				
Hereditary corneal dystrophies 371.55				
Hereditary corneal dystrophies 371.56				
Hereditary corneal dystrophies 371.50				
Hereditary corneal dystrophies 371.57				
Hereditary choroidal dystrophies 363 50				
Hereditary choroidal dystrophies 363.50				
Hereditary choroidal dystrophies 363.57				
Hereditary choroidal dystrophies 363.52				
Hereditary choroidal dystrophies 363.55				
Hereditary choroidal dystrophies 303.54				
Hereditary choroidal dystrophics 303.55				
Hereditary choroidal dystrophies 303.50				
Hereditary ratinal dystrophics 362.70				
Hereditary retinal dystrophics 362.70				
Hereditary retinal dystrophics 302.71				
Hereditary retinal dystrophics 302.72				
Hereditary retinal dystrophics 362.73				
Hereditary retinal dystrophics 302.74				
Hereditary retinal dystrophics 362.75				
Hereuliary Tellinar uystrophies 302.70				
High myopia 360.20				
High Hiyopia 500.21				
Injury to optic nerve and pathways 950.0				
Injury to optic herve and pathways 950.1				
Injury to optic herve and pathways 950.2				
Injury to optic herve and pathways 950.5				
Injury to optic herve and pathways 950.9				
Nelderate or accuration impairment better ave profound impairment le	260.10			
Moderate or severe impairment, better eye, protound impairment le	SSELEYE 309.10			
Moderate of severe impairment, better eye, profound impairment le	SSELEYE 309.11			
Moderate of severe impairment, better eye, profound impairment le	SSELEYE 309.12			
Moderate or severe impairment, better eye, protound impairment le	SSELEYE 309.13			
Moderate of severe impairment, better eye, profound impairment le	SSELEYE 309.14			
Moderate of severe impairment, better eye, profound impairment le	SSEL eye 309.15			
Moderate of severe impairment, better eye, profound impairment le	SSELEYE 309.10			
Moderate of severe impairment, better eye, profound impairment le				
Involuerate of severe impairment, better eye, protound impairment le	55ei eye 309.18			
Open would of eyeball 0/1.0				
Open wound of eyeball 071.1				
Open wound of eyeball 0/1.2				
Open wound of eyeball 871.3				
Open wound of eyeball 071.4				
Open wound of eyeball 871.5				

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Open wound of eyeball 871.7		
Open wound of eyeball 871.9		
Optic atrophy 377.10		
Optic atrophy 377.11		
Optic atrophy 377.12		
Optic atrophy 377.13		
Optic atrophy 377.14		
Optic atrophy 377.15		
Optic atrophy 377.16		
Optic neuritis 377.30		
Optic neuritis 377.31		
Optic neuritis 377.32		
Optic neuritis 377.33		
Optic neuritis 377.34		
Optic neuritis 377.39		
Other background retinopathy and reti	nal vascular changes 362.12	
Other background retinopathy and reti	nal vascular changes 362.16	
Other background retinopathy and reti	nal vascular changes 362.18	
Other corneal deformities 371.70		
Other corneal deformities 371.71		
Other corneal deformities 371.72		
Other corneal deformities 371.73		
Other disorders of optic nerve	377.41	
Other disorders of sclera 379.11		
Other disorders of sciera 379.12		
Other endophthalmitis 360.11		
Other endophthalmitis 360.12		
Other endophthalmitis 360.13		
Other endophthalmitis 300.14		
Other retinal disorders 362.81		
Other retinal disorders 362.82		
Other retinal disorders 362.83		
Other retinal disorders 362.84		
Other retinal disorders 362.85		
Other retinal disorders 362.89		
Other and unspecified forms of chorio	retinitis and retinochoroiditis	363 20
Other and unspecified forms of chorio	retinitis and retinochoroiditis	363.21
Other and unspecified forms of chorio	retinitis and retinochoroiditis	363.22
Prior penetrating keratoplasty 371.60		
Prior penetrating keratoplasty 371.61		
Prior penetrating keratoplasty 371.62		
Profound impairment, both eyes	369.00	
Profound impairment, both eyes	369.01	
Profound impairment, both eyes	369.02	
Profound impairment, both eyes	369.03	
Profound impairment, both eyes	369.04	
Profound impairment, both eyes	369.05	
Profound impairment, both eyes	369.06	
Profound impairment, both eyes	369.07	
Profound impairment, both eyes	369.08	
Purulent endophthalmitis 360.00		
Purulent endophthalmitis 360.01		
Purulent endophthalmitis 360.02		
Purulent endophtnalmitis 360.03		

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	Purulent endophthalmitis 360.04
	Retinal detachment with retinal defect 361.00
	Retinal detachment with retinal defect 361.01
	Retinal detachment with retinal defect 361.02
	Retinal detachment with retinal defect 361.03
	Retinal detachment with retinal defect 361.04
	Retinal detachment with retinal defect 361.05
	Retinal detachment with retinal defect 361.06
	Retinal detachment with retinal defect 361.07
	Retinal vascular occlusion 362.31
	Retinal vascular occlusion 362.32
	Retinal vascular occlusion 362.35
	Retinal vascular occlusion 362.36
	Retinopathy of prematurity 362.21
	Scleritis and episcleritis 379.04
	Scleritis and episcleritis 379.05
	Scleritis and episcleritis 379.06
	Scleritis and episcleritis 379.07
	Scleritis and episcleritis 379.09
	Separation of retinal layers 362.41
	Separation of retinal layers 362.42
	Separation of retinal layers 362.43
	Uveitis 360.11
	Uveitis 360.12
	Visual field defects 368.41
	References:
	1. Schein OD, Steinberg EP, Cassard SD et al. Predictors of outcome in patients who underwent cataract surgery.
	Ophthalmology 1995; 102:817-23.
	2. Lum F, Schachat AP, Jampel HD. The development and demise of a cataract surgery database. Jt Comm J Qual Improv.
	2002 Mar;28(3): 108-14.
	3. Gotnwal VK, Wright TA, Lamoureux EL, Pesudovs K. Measuring outcomes of cataract surgery using the Visual Function
	Index-14. J Cataract Refract Surg 2010, 36:1181-8.
Type Score	Rate/proportion better quality = higher score
Algorithm	The calculation of the measure would be determination of the number of patients in the sample who demonstrated
	improvement in visual function based on the pre-operative and post-operative visual function instrument over the number of
	patients in the sample who had cataract surgery.
	Currently in the scientific literature, there is no well-established method to define a threshold or interval that indicates
	improvement on the VF-8R. The Rasch scale has found to be more sensitive to change than the VF-14 in longitudinal
	studies and has a different scale for scoring than the VF-14. The VF-14 is based on summative scoring, which has no
	rationale for now numerical values are assigned and now a summary score is produced, and does not give a sense of the
	degree of change. The Rasch model is based on item Response theory, which is based on item difficulty in relationship to an
	Individual's ability and weighs the overall score accordingly, providing a gain in precision. Thus any difference between the
	pre-operative and post-operative scores on the VF-BR would indicate an improvement in functional activities. The average
	difference found between pre-operative and post-operative assessment on the VF-8R was 15.39 (Standard error = 2.66).
	In the literature, there have been two studies looking at the clinically important differences for the VF-14 index. One study
	found that the minimal clinically important difference was 15.57; another study found that the minimally clinically important
	difference was 5.5.
	Reletences.
	1. Dibao A, Quintana Jivi, Escobal A et al. Responsiveness and Clinically Important Differences for the VF-14 Index, SF-36
	and visual Adulty in Patients Undergoing Gataract Surgery. Opninalmology 2009; 116:418-424.
	2. Las mayas C, Diluau A, Quintana J et al. A comparison of standard sconing versus Rasch sconing of the visual Function-
	1 $+$ 1 $+$ $ +$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$

0528 Prophylactic antibiotic selection for surgical patients

	0528 Prophylactic antibiotic selection for surgical patients
Steward	Centers for Medicare & Medicaid Services
Description	Surgical patients who received prophylactic antibiotics consistent with current guidelines (specific to each type of surgical procedure).
Туре	Process
Data Source	Electronic administrative data/claims, Electronic Health/Medical Record, Paper medical record/flow-sheet Most facilities use vendors to collect and submit the data electronically. CMS provides a free, downloadable tool called CART. A paper tool modeled after the data collected electronically is provided as an attachment. CART downloads can be found on QualityNet.org at http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier2&cid=1138900279093 Attachment SCIPCARTpapertool_10.01.10-634328669255300860.doc URL
l evel	Can be measured at all levels. Facility/Agency. Population: National. Program: OIO
Setting	Hospital
Numerator	Purgical nations who received recommended prophylactic antibiotics for specific surgical procedures
Statement	
Numerator	Time Window: Admission to 24 hours after Anesthesia End Time
Details	Data Elements:
	Antibiotic Administration Route
	Antibiotic Alleray
	Antibiotic Name
	Oral Antibiotics
	Vancomycin
Denominator	All selected surgical patients with no evidence of prior infection.
Statement	Included Populations:
	AND
	An ICD-9-CM Principal Procedure Code of selected surgeries (as defined in Appendix A. Table 5.01-5.08 for ICD-9-CM
	codes).
Denominator	Female; Male Patients aged 18 and older
Categories	
Denominator	Time Window: admission to discharge
Details	
	Data Elements:
	Anestnesia End Date
	Anesthesia Start Date
	Admission Date
	Antibiotic Administration Date
	Antibiotic Administration Time
	Antibiotic Received
	Birthdate
	Discharge Date
	ICD-9-CM Principal Diagnosis Code
	ICD-9-CM Principal Procedure Code
	Infection Prior to Anesthesia
	Perioperative Death
Exclusions	Excluded Populations:
LAGIUSIUIIS	Patients less than 18 years of age

	0528 Prophylactic antibiotic selection for surgical patients
	Patients who have a length of Stay greater than 120 days Patients who had a principal diagnosis suggestive of preoperative infectious diseases (as defined in Appendix A, Table 5.09 for ICD-9-CM codes) Patients whose ICD-9-CM principal procedure was performed entirely by Laparoscope Patients enrolled in clinical trials Patients whose ICD-9-CM principal procedure occurred prior to the date of admission Patients with physician/advanced practice purse/physician assistant (physician/APN/PA) documented infection prior to
	Patients who expired perioperatively Patients who were receiving antibiotics more than 24 hours prior to surgery (except colon surgery patients taking oral prophylactic antibiotics) Patients who were receiving antibiotics within 24 hours prior to arrival (except colon surgery patients taking oral prophylactic antibiotics) Patients who did not receive any antibiotics before or during surgery, or within 24 hours after Anesthesia End Time (i.e.,
	patient did not receive prophylactic antibiotics) Patients who did not receive any antibiotics during this hospitalization
Exclusion Details	Data Elements: Birthdate Clinical Trial ICD-9-CM Principal Diagnosis Code Infection Prior to Anesthesia Laparoscope Perioperative Death
Risk Adjustment	NA
Stratification	The antibiotic prophylaxis measures are stratified according to surgery type. The tables are subsets of Table 5.10 (see link for Specification Manual and Appendix A, Tables 5.01 to 5.08. The specific procedures must be in the large table (Table 5.10) to be eligible for the SCIP measures. The measure specific tables for SCIP-Inf-2 are 5.01 to 5.08.
Type Score	Rate/proportion Better quality = Higher score
Algorithm	 Start processing. Run cases that are included in the Surgical Care Improvement Project (SCIP) Initial Patient Population and pass the edits defined in the Transmission Data Processing Flow: Clinical through this measure. Calculate Patient Age. The Patient Age, in years, is equal to the Admission Date minus the Birthdate. Use the month and day portion of admission date and birthdate to yield the most accurate age. Check Patient Age
	 a. If Patient Age is less than 18 years, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for Centers for Medicare and Medicaid Services (CMS). Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If Patient Age is greater than or equal to 18 years, continue processing and proceed to ICD-9-CM Principal Procedure Code.
	 4. Check ICD-9-CM Principal Procedure Code a. If the ICD-9-CM Principal Procedure Code is not on Table 5.01 or 5.02 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.08, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the ICD-9-CM Principal Procedure Code is on Table 5.01 or 5.02 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.08, continue processing and proceed to recheck ICD-9-CM Principal Diagnosis Code. 5. Check ICD-9-CM Principal Diagnosis Code
	 a. If the ICD-9-CM Principal Diagnosis Code is on Table 5.09, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the ICD-9-CM Principal Diagnosis Code is not on Table 5.09, continue processing and proceed to Laparoscope.
	6. Check Laparoscope a. If Laparoscope is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission.

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b. If Laparoscope equals 1 or 3, the case will proceed to a Measure Category Assignment of B and will not be in the Measure
Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a)
for The Joint Commission.
c. If Laparoscope equals 2, continue processing and proceed to Clinical Trial.
7. Check Clinical Trial
a. If Clinical Trial is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop
processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint
Commission.
b. If Clinical Trial equals Yes, the case will proceed to a Measure Category Assignment of B and will not be in the Measure
Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a)
tor The Joint Commission.
c. If Clinical Trial equals No, continue processing and proceed to Anesthesia Start Date.
8. Check Anesthesia Start Date
a. If the Anesthesia Start Date is missing, the case will proceed to a Measure Category Assignment of X and will be rejected.
Stop processing for UMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SUIP-Inf-za) for The Joint
Commission.
D. If the Anesthesia Start Date equals Unable 10 Determine, the case will proceed to a measure Category Assignment of D and will be in the Measure Deputation. Step proceeding for CMS. Drespend to step 57 and sheet the Stratified Measures for CMS.
and will be in the Measure Population. Stop processing for GMS. Proceed to step 57 and check the Stratilied Measures for Overall Pate (SCIP lef 2a) for The Joint Commission
UVerall Rate (SUP-IIII-2a) for The Joint Contrinsion.
c. If Affestitesia Start Date equals a Norr Offable To Determine value, continue processing and proceed to the Surgery Days
Calculation. 0. Calculate Surgery Dave, Surgery Dave, in dave, is equal to the Anesthesia Start Date minus the Admission Date
10. Check Surgery Days. Surgery Days, in days, is equal to the Anesthesia Start Date minus the Admission Date.
a. If the Surgery Days is less than zero, the case will proceed to a Measure Category Assignment of B and will not be in the
Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-
Inf-2a) for The Joint Commission
b. If the Surgery Days is greater than or equal to zero, continue processing and proceed to Infection Prior to Anesthesia
11. Check Infection Prior to Anesthesia
a. If Infection Prior to Anesthesia is missing, the case will proceed to a Measure Category Assignment of X and will be
rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for
The Joint Commission.
b. If Infection Prior to Anesthesia equals Yes, the case will proceed to a Measure Category Assignment of B and will not be in
the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate
(SCIP-Inf-2a) for The Joint Commission.
c. If Infection Prior to Anesthesia equals No, continue processing and proceed to Perioperative Death.
12. Check Perioperative Death
a. If Perioperative Death is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop
processing for CMS.
Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission.
b. If Perioperative Death equals Yes, the case will proceed to a Measure Category Assignment of B and will not be in the
Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-
Int-2a) for The Joint Commission.
c. If Perioperative Death equals No, continue processing and proceed to Surgical Incision Date.
13. Uneck Surgical Incision Date
a. If the Surgical Incision Date is missing, the case will proceed to a Measure Category Assignment of X and will be rejected.
Normalization.
and will be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for
Overall Rate (SCIP-Inf-2a) for The Joint Commission
c. If Surgical Incision Date equals a Non I Inable To Determine Value, continue processing and proceed to Antibiotic
Received
14. Check Antibiotic Received
a. If Antibiotic Received equals 1 or 2, continue processing and proceed to recheck ICD-9-CM Principal Procedure Code
b. If Antibiotic Received equals 4, the case will proceed to a Measure Category Assignment of B and will not be in the

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Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-
Inf-2a) for The Joint Commission.
c. If Antibiotic Received equals 3, continue processing and proceed to step 18 and check Antibiotic Name. Do not check ICD-
9-CM Principal Procedure Code, Oral Antibiotics or Antibiotic Received.
15. Recheck ICD-9-CM Principal Procedure Code only if Antibiotic Received equals 1 or 2
a. If the ICD-9-CM Principal Procedure Code is not on Table 5.03, the case will proceed to a Measure Category Assignment
of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified
Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission.
 16. Check Oral Antibiotics
a. If Oral Antibiotics is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission.
b. If Oral Antibiotics equals No, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission
c. If Oral Antibiotics equals Yes, continue processing and proceed to recheck Antibiotic Received.
a. If Antibiotic Received equals 1, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission.
 b. If Antibiotic Received equals 2, continue processing and proceed to Antibiotic Name. 18 Check Antibiotic Name
a. If the Antibiotic Grid is not populated, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint
Commission. Note: The front-end edits reject cases containing invalid data and/or an incomplete Antibiotic Grid. A complete Antibiotic Grid requires all data elements in the row to contain either a valid value and/or Unable to Determine.
 b. If the Antibiotic Name is on Table 2.1, continue processing and proceed to Antibiotic Administration Route. 19. Check Antibiotic Administration Route
a. If the Antibiotic Administration Route is equal to 3 or 10 for all antibiotic doses, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission
b. If the Antibiotic Administration Route is equal to 1 or 2 for any antibiotic dose, continue processing and proceed to
Antibiotic Administration Date. Proceed only with antibiotic doses on Table 2.1 that are administered via routes 1 or 2. 20. Check Antibiotic Administration Date
a. If the Antibiotic Administration Date is equal to Unable to Determine for all antibiotic doses, the case will proceed to a
Measure Category Assignment of D and will be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission.
b. If the Antibiotic Administration Date is equal to a Non Unable to Determine date for at least one antibiotic dose, continue
processing and proceed to the Antibiotic Days I calculation. Note: Proceed only with antibiotic doses that have an associated
21. Calculate Antibiotic Days I. Antibiotic Days I. in days, is equal to the Surgical Incision Date minus the Antibiotic
Administration Date.
22. Check Antibiotic Days I
a. If the Antibiotic Days I is greater than 1 for at least one antibiotic dose, continue processing and recheck the ICD-9-CM
Principal Procedure Code. Do not recheck step 25 Antibiotic Days I, step 26 Surgical Incision Time, step 27 Antibiotic
Administration Time, or step 29 Antibiotic Timing I.
b. If the Antibiotic Days I is less than or equal to 1 for all antibiotic doses, continue processing. Proceed to step 25 and
recheck Antibiotics Days I. Do not recheck ICD-9-CM Principal Procedure Code or Oral Antibiotics. 23. Recheck ICD-9-CM Principal Procedure Code only if the Antibiotics Days was greater than 1 for at least one antibiotic desc
a If the ICD-9-CM Principal Procedure Code is not on Table 5.03, the case will proceed to a Measure Category Assignment
of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission
b. If the ICD-9-CM Principal Procedure Code is on Table 5.03, continue processing and check Oral Antibiotics.

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24. Check Oral Antibiotics
a. If Oral Antibiotics is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission
b. If Oral Antibiotics equals No, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a)
c. If Oral Antibiotics equals Yes, continue processing. Proceed to step 33 and check Anesthesia End Date. Do not recheck step 25 Antibiotic Days I, step 26 Surgical Incision Time, step 27 Antibiotic Administration Time, or step 29 Antibiotic Timing I. 25.Recheck Antibiotic Days I only if Antibiotic Days I is less than or equal to 1 for all antibiotic doses a. If the Antibiotic Days I is less than or equal to zero for all antibiotic doses, continue processing. Proceed to step 33 and
check Anesthesia End Date. Do not check step 26 Surgical Incision Time, step 27 Antibiotic Administration Time, or step 29 Antibiotic Timing I.
b. If the Antibiotic Days I is equal to 1 for ANY antibiotic dose, continue processing and proceed to Surgical Incision Time. 26. Check Surgical Incision Time
a. If the Surgical Incision Time is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission.
b. If the Surgical Incision Time is equal to Unable to Determine, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission.
c. If the Surgical Incision Time is equal to a Non Unable to Determine Value, continue processing and check Antibiotic Administration Time.
27. Check Antibiotic Administration Time a. If the Antibiotic Administration Time equals Unable to Determine for all antibiotic doses, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission.
b. If the Antibiotic Administration Time equals a Non Unable to Determine time for at least one antibiotic dose, continue processing and recheck Antibiotic Administration Time. 28. Recheck Antibiotic Administration Time.
 a. If the Antibiotic Administration Time equals Unable to Determine for ANY antibiotic dose with Antibiotic Days equal to 1, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the Antibiotic Administration Time equals a Non Unable to Determine time for All antibiotic doses with Antibiotic Days equal to 1, the equals to 1, continue processing and proceed to the Antibiotic Timing L calculation
29. Calculate Antibiotic Timing I. Antibiotic Timing I, in minutes, is equal to the Surgical Incision Date and Surgical Incision Time minus the Antibiotic Administration Date and Antibiotic Administration Time. Calculate Antibiotic Timing I for all antibiotic doses with Non Unable to Determine date and time. Proceed with antibiotic doses that have Antibiotic Timing I calculated, or Antibiotic Days I less than or equal to zero. 30. Check Antibiotic Timing I
a. If the Antibiotic Timing I is greater than 1440 minutes for any antibiotic dose, continue processing and recheck the ICD-9- CM Principal Procedure Code. Proceed with antibiotic doses that have Antibiotic Timing I calculated, or Antibiotic Days I less than or equal to zero.
b. If the Antibiotic Timing I is less than or equal to 1440 minutes for all antibiotic doses with non Unable to Determine date and time, continue processing and proceed to step 33 and check Anesthesia End Date. Proceed with antibiotic doses that have Antibiotic Timing I calculated, or Antibiotic Days I less than or equal to zero. Do not recheck ICD-9-CM Principal Procedure Code or Oral Antibiotics
31. Recheck ICD-9-CM Principal Procedure Code only if Antibiotic Timing I is greater than 1440 for any antibiotic dose a. If the ICD-9-CM Principal Procedure Code is not on Table 5.03, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission.
 b. If the ICD-9-CM Principal Procedure Code is on Table 5.03, continue processing and check Oral Antibiotics. 32. Check Oral Antibiotics
a. If Oral Antibiotics is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint

the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for O	verall Rate
(SCIP-Inf-2a) for The Joint Commission.	
2. If the Abxday flag equals Yes for ANY dose, continue processing and recheck the Antibiotic Administration Re	oute. Proceed
only with doses where the Abxflag is equal to Yes.	
b. If the Antibiotic Timing II is less than or equal to 1440 minutes for at least one dose of ANY antibiotic, continu	e processing
and proceed to Antibiotic Administration Route. Proceed with antibiotic doses that have Antibiotic Timing II calcu	llated, or
Abxday flag equal to Yes.	of cot logot
41. Recheck Antibiotic Administration Route. For each case, proceed UNLY with those antibiotic doses that sati	sty at least
a If the Antibiotic Administration Poute equals 1 for all doses of all Antibiotics, the case will proceed to a Measu	re Category
Assignment of D and will be in the Measure Population. Stop processing for CMS. Proceed to step 57 and chec	k the
Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission	K UIC
b. If the Antibiotic Administration Route equals 2 for any dose of any antibiotic, continue processing and proceed	d to recheck
the ICD-9-CM Principal Procedure Code. Note: For each case include only those antibiotics with route IV for fur	ther
processing.	
42. Recheck ICD-9-CM Principal Procedure Code	
a. If the ICD-9-CM Principal Procedure Code is on Table 5.03, continue processing and proceed to step 46 and	recheck
Antibiotic Name. Do not recheck to determine if ICD-9-CM Principal Procedure Code is on Tables 5.01, 5.02, 5.	04, 5.05, 5.06,
5.07, or 5.08 or if Antibiotic Name is on Table 3.2.	
b. If the ICD-9-CM Principal Procedure Code is on Tables 5.01, 5.02, 5.04, 5.05, 5.06, 5.07, or 5.08, continue pl	ocessing and
proceed to recheck ICD-9-CM Principal Procedure Code.	
43. Recheck ICD-9-CM Principal Procedure Code	
a. If the ICD-9-CM Principal Procedure Code is on Table 5.06 or 5.07, continue processing and proceed to rech	eck Antibiotic
Name. 1. If the Antibiotic Nerro is an Table 2.7, the same will arread to a Massure Category Assignment of E and will	he is the
1. If the Antibiotic Name is on Table 3.7, the case will proceed to a Measure Category Assignment of E and will Numerater Deputation. Step proceeding for CMS. Dressed to atom 57 and check the Stratified Measures for Over	be in the
(SCIP lef 2a) for The Joint Commission	
2 If the Antibiotic Name is not on Table 3.7 continue processing and proceed to step 46 and recheck Antibiotic	Name Do
not recheck to determine if ICD-9-CM Principal Procedure Code is on Tables 5.01, 5.02, 5.04, 5.05, or 5.08 or if	Antibiotic
Name is on Table 3.2.	
b. If the ICD-9-CM Principal Procedure Code is on Tables 5.01, 5.02, 5.04, 5.05, or 5.08, continue processing a	nd proceed to
recheck ICD-9-CM Principal Procedure Code.	
44.Recheck ICD-9-CM Principal Procedure Code	
a. If the ICD-9-CM Principal Procedure Code is on Table 5.01, 5.02, or 5.08, continue processing and proceed t	o recheck
Antibiotic Name.	
1. If the Antibiotic Name is on Table 3.1, the case will proceed to a Measure Category Assignment of E and will	be in the
Numerator Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Ove	rall Rate
(SCIP-Ini-Za) for The Joint Commission.	Nama Da
2. If the Antibiotic Name is not on Table 5. I, continue processing and proceed to step 40 and recretick Antibiotic name is not recheck to determine if ICD-0-CM Principal Procedure Code is on Tables 5.04 or 5.05 or if Antibiotic Name is	Name. Do s on Table
b. If the ICD-9-CM Principal Procedure Code is on Tables 5.04 or 5.05, continue processing and proceed to rec	heck
Antibiotic Name.	
45. Recheck Antibiotic Name	
a. If the Antibiotic Name is on Table 3.2, the case will proceed to a Measure Category Assignment of E and will	be in the
Numerator Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Ove	rall Rate
(SCIP-Inf-2a) for The Joint Commission.	
b. If the Antibiotic Name is not on Table 3.2, continue processing and proceed to recheck Antibiotic Name.	
46. Recheck Antibiotic Name	11
a. If the Antibiotic Name is on Table 3.6b, the case will proceed to a Measure Category Assignment of E and will	i be in the
Summerator Population. Stop processing for UNS. Proceed to step 57 and check the Stratified Measures for Uve	rali kate
h. If the Antihiotic Name is not on Table 3.6h. continue processing and proceed to recheck Antihiotic Name	
47 Recheck Antibiotic Name	
a. If the Antibiotic Name is on Table 3.5, the case will proceed to a Measure Category Assignment of E and will	be in the

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Numerator Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate
(SCIP-Inf-2a) for The Joint Commission.
b. If the Antibiotic Name is not on Table 3.5, continue processing and proceed to recheck Antibiotic Name.
48. Recheck Antibiotic Name
a. If the Antibiotic Name is on Table 3.2, continue processing and recheck Antibiotic Name.
1. If the Antibiotic Name is on Table 3.6a, the case will proceed to a Measure Category Assignment of E and will be in the
Numerator Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate
(SCIP-Inf-Za) for The Joint Commission.
2. If the Antibiotic name is not on Table 3.6a, continue processing and proceed to recneck ICD-9-CM Principal Procedure
UUUU. h. If the Antibiotic Name is not on Table 3.2, continue processing and proceed to received ICD 0, CM Principal Procedure
D. If the Antibiotic Name is not of Table 3.2, continue processing and proceed to reclieck ICD-9-Civi Philopal Procedure
49 Recheck ICD-9-CM Principal Procedure Code
a If the ICD-9-CM Principal Procedure Code is on Table 5.01, 5.02, 5.04, 5.05, or 5.08, continue processing and proceed to
recheck Antibiotic Name.
b. If the ICD-9-CM Principal Procedure Code is on Tables 5.03, 5.06 or 5.07, continue processing and proceed to step 54 and
check Antibiotic Allergy. Do not check step 50 and 52 to see if Antibiotic Name is on Tables 3.8 or 3.9. step 51 Antibiotic
Allergy or step 53 Vancomycin.
50. Recheck Antibiotic Name only if the ICD-9-CM Principal Procedure Code is on Table 5.01, 5.02, 5.04, 5.05, or 5.08
a. If none of the Antibiotic Names are on Table 3.8 and 3.9, the case will proceed to a Measure Category Assignment of D
and will be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for
Overall Rate (SCIP-Inf-2a) for The Joint Commission.
b. If at least one of the Antibiotic Names are on Table 3.8 or 3.9, continue processing and proceed to Antibiotic Allergy.
51. Check Antibiotic Allergy only if at least one of the Antibiotic Names are on Table 3.8 or 3.9
a. If Antibiotic Allergy is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop
processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint
Commission.
b. If Antibiotic Allergy equals Yes, the case will proceed to a Measure Category Assignment of E and will be in the Numerator
Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a)
TOF The Joint Commission.
c. Il Antibiolic Allergy equals No, continue processing and proceed to recheck Antibiolic Name.
DZ. RECIECK ANUDICIC Name a. If none of the Antibiotic Names are on Table 3.8, the case will proceed to a Measure Category Assignment of D and will be
in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate
(SCIP-Inf-2a) for The Joint Commission
b If at least one of the Antibiotic Names are on Table 3.8 continue processing and proceed to check Vancomycin
53. Check Vancomycin
a. If Vancomycin is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop
processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint
Commission.
b. If any Vancomycin value equals 9 and none of the values equal 1, 2, 3, 4, 5, 6, 7, 8, 10, or 11, the case will proceed to a
Measure Category Assignment of D and will be in the Measure Population. Stop processing for CMS. Proceed to step 57 and
check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission.
c. If any Vancomycin value equals 1, 2, 3, 4, 5, 6, 7, 8, 10, or 11 and none of the values equals 9, the case will proceed to a
Measure Category Assignment of E and will be in the Numerator Population. Stop processing for CMS. Proceed to step 57
and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission.
54. Check Antibiotic Allergy only if the ICD-9-CM Principal Procedure Code is on Table 5.03, 5.06, or 5.07
a. If Antibiotic Allergy is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop
processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint
UCITIMISSION.
ID. II AITUDIOLIC AITERTY equals NO, The case will proceed to a measure Category Assignment of D and will be in the Measure Deputation Stan proceeding for CMS, Breezed to stan 57 and check the Stratified Measures for Overall Bets (COD Let 25)
ropulation. Stop processing for GNS. Froceed to step 57 and check the Stratilied Measures for Overall Rate (SUP-INT-2a)
nor the sound commission. In If Antibiotic Alleray equals Ves, continue processing and proceed to recheck Antibiotic Name
55 Recheck Antibiotic Name

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a. If at least one of the Antibiotic Names is on Table 3.9, continue processing and recheck Antibiotic Name.
1. If at least one of the Antibiotic Names is on Tables 2.11 or 3.12 or 2.7, the case will proceed to a Measure Category
Assignment of E and will be in the Numerator Population. Stop processing for CMS. Proceed to step 57 and check the
Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission.
2. If none of the Antibiotic Names are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name.
b. If none of the Antibiotic Names are on Table 3.9, continue processing and recheck Antibiotic Name.
56. Recheck Antibiotic Name
a. If at least one of the Antibiotic Names is on Table 3.6a, continue processing and recheck Antibiotic Name.
1. If at least one of the Antibiotic Names is on Tables 2.11 or 3.12, the case will proceed to a Measure Category Assignment
of E and will be in the Numerator Population. Stop processing for CMS. Proceed to Stratified Measures for Overall Rate
(SCIP-Inf-2a) for The Joint Commission.
2. If none of the Antibiotic Names are on Tables 2.11 or 3.12, the case will proceed to a Measure Category Assignment of D
and will be in the Measure Population. Stop processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-Inf-
2a) for The Joint Commission.
b. If none of the Antibiotic Names are on Table 3.6a, the case will proceed to a Measure Category Assignment of D and will
be in the measure population. Stop processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-Inf-2a) for
The Joint Commission.
57. For The Joint Commission Only, continue processing for the Stratified Measures. Note: Initialize the Measure Category
Assignment for each strata measure (b-g) to equal B, not in the Measure Population. Do not change the Measure Category
Assignment that was already calculated for the overall rate (SCIP-Inf-2a). The rest of the algorithm will reset the appropriate
Measure Category Assignment to be equal to the overall rate's (SCIP-Inf-2a) Measure Category Assignment.
58. Check Overall Rate Category Assignment
a. If the Overall Rate Category Assignment is equal to B or X, set the Measure Category Assignment for the strata measures
(SCIP-Inf-2b through SCIP-Inf-2h) to equal B, not in the Measure Population. Stop processing.
b. If the Overall Rate Category Assignment is equal to D or E, continue processing and check the ICD-9-CM Principal
Procedure Code.
Specifications Manual for National Hospital Inpatient Quality Measures
Discharges 10-01-10 (4Q10) through 03-31-11 (1Q11) SCIP-Inf-2-30
59. Check ICD-9-CM Principal Procedure Code
a. If the ICD-9-CM Principal Procedure Code is on Table 5.01, for Stratified Measure SCIP-Inf-2b, set the Measure Category
Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2a. Stop processing.
b. If the ICD-9-CM Principal Procedure Code is on Table 5.02 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.08, continue
processing and recheck the If the ICD-9-CM Principal Procedure Code.
60. Recheck ICD-9-CM Principal Procedure Code
a. If the ICD-9-CM Principal Procedure Code is on Table 5.02, for Stratified Measure SCIP-Inf-2c, set the Measure Category
Assignment for measure SCIP-Inf-2c to equal the Measure Category Assignment for measure SCIP-Inf-2a. Stop processing.
b. If the ICD-9-CM Principal Procedure Code is on Table 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.08, continue processing and
recheck the If the ICD-9-CM Principal Procedure Code.
61. Recheck ICD-9-CM Principal Procedure Code
a. If the ICD-9-CM Principal Procedure Code is on Table 5.04, for Stratified Measure SCIP-Inf-2d, set the Measure Category
Assignment for measure SCIP-Inf-2d to equal the Measure Category Assignment for measure SCIP-Inf-2a. Stop processing.
b. If the ICD-9-CM Principal Procedure Code is on Table 5.03 or 5.05 or 5.06 or 5.07 or 5.08, continue processing and
recheck the If the ICD-9-CM Principal Procedure Code.
62. Recheck ICD-9-CM Principal Procedure Code
a. If the ICD-9-CM Principal Procedure Code is on Table 5.05, for Stratified Measure SCIP-Inf-2e, set the Measure Category
Assignment for measure SCIP-Inf-2e to equal the Measure Category Assignment for measure SCIP-Inf-2a. Stop processing.
b. If the ICD-9-CM Principal Procedure Code is on Table 5.03 or 5.06 or 5.07 or 5.08, continue processing and recheck the If
the ICD-9-CM Principal Procedure Code.
63. Recheck ICD-9-CM Principal Procedure Code
a. If the ICD-9-CM Principal Procedure Code is on Table 5.03, for Stratified Measure SCIP-Inf-2f, set the Measure Category
Assignment for measure SCIP-Inf-2f to equal the Measure Category Assignment for measure SCIP-Inf-2a. Stop processing.
b. If the ICD-9-CM Principal Procedure Code is on Table 5.06 or 5.07 or 5.08, continue processing and recheck the If the
ICD-9-CM Principal Procedure Code.
64. Recheck ICD-9-CM Principal Procedure Code
a. If the ICD-9-CM Principal Procedure Code is on Table 5.06 or 5.07, for Stratified Measure SCIP-Inf-2g, set the Measure

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Category Assignment for measure SCIP-Inf-2g to equal the Measure Category Assignment for measure SCIP-Inf-2a. Stop
processing.
b. If the ICD-9-CM Principal Procedure Code is on Table 5.08, for Stratified Measure SCIP-Inf-2h, set the Measure Category
Assignment for measure SCIP-Inf-2h to equal the Measure Category Assignment for measure SCIP-Inf-2a. Stop processing.

	0126 Selection of antibiotic prophylaxis for cardiac surgery patients
Steward	Society of Thoracic Surgeons
Description	Percent of patients aged 18 years and older undergoing cardiac surgery who received preoperative prophylactic antibiotics recommended for the operation.
Туре	Process
Data Source	Registry data STS Adult Cardiac Surgery Database – Version 2.73 URL Data Collection Form http://www.sts.org/sites/default/files/documents/STSAdultCVDataCollectionForm2_73_Annotated.pdf URL http://www.sts.org/sites/default/files/documents/STSAdultCVDataSpecificationsV2_73.pdf
Level	Clinicians: Group, Facility/Agency, Population: Counties or cities, Population: National, Population: Regional/network, Population: States
Setting	Hospital
Numerator Statement	Number of patients undergoing cardiac surgery who received a first generation or second generation cephalosporin prophylactic antibiotic (e.g., cefazolin, cefuroxime, cefamandole) preoperatively or in the event of a documented allergy, an alternate antibiotic choice (e.g., vancomycin, clindamycin) was ordered and administered preoperatively.
Numerator	Time Window:
Details	Number of cardiac surgery procedures in which appropriate antibiotic selection [AbxSelect (STS Adult Cardiac Surgery Database Version 2.73)] is marked "yes"
Denominator Statement	Number of patients undergoing cardiac surgery
Denominator Categories	Female; Male 18 and older
Denominator Details	Time Window: 12 months
	Number of cardiac surgery procedures; A cardiac procedure is determined as a procedure for which at least one of the following is not marked "no" or "missing" (note: full terms for STS field names are provided in brackets []): OpCAB[Coronary Artery Bypass], OpValve[Valve Surgery], VADProc [VAD Implanted or Removed], VSAV [Aortic Valve Procedure], VSMV [Mitral Valve Procedure], OpTricus [Tricuspid Valve Procedure Performed], OpPulm[Pulmonic Valve Procedure Performed], OpOCard [Other Cardiac Procedure other than CABG or Valve], OCarLVA [Left Ventricular Aneurysm Repair], OCarVSD [Ventricular Septal Defect Repair], OCarSVR [Surgical Ventricular Restoration], OCarCong [Congenital Defect Repair], OCarTrma [surgical procedure for an injury due to Cardiac Trauma], OCarCrTx [Cardiac Transplant], OCarACD [Arrhythmia Correction Surgery], OCAoProcType[Aortic Procedure Type], EndoProc [Endovascular Procedure (TEVAR)], OCTumor [resection of an intracardiac tumor], OCPulThromDis [Pulmonary Thromboembolectomy,, OCarOthr [Other Cardiac Procedure other than those listed previously], ECMO [Extracorporeal Membrane Oxygenation], OCarLasr [- Transmyocardial Laser Revascularization], OCarASD [Atrial Septal Defect Repair], OCarAFibSur [Atrial Fibrillation Surgical Procedure]
Exclusions	 Exclusions include: Patients who had a principal diagnosis suggestive of preoperative infectious diseases Patients whose ICD-9-CM principal procedure was performed entirely by Laparoscope Patients enrolled in clinical trials Patients with documented infection prior to surgical procedure of interest Patients who expired perioperatively Patients who were receiving antibiotics more than 24 hours prior to surgery Patients who were receiving antibiotics within 24 hours prior to arrival Patients who did not receive any antibiotics before or during surgery, or within 24 hours after anesthesia end time

	0126 Selection of antibiotic prophylaxis for cardiac surgery patients
	 (i.e., patient did not receive prophylactic antibiotics) Patients who did not receive any antibiotics during this hospitalization This list will be provided in the STS Adult Cardiac Surgery Database Data Manager's Training Manual as acceptable exclusions. AbxSelect is marked "Exclusion"
Exclusion Details	See above
Risk Adjustment	no risk adjustment necessary N/A
Stratification	N/A
Type Score	Rate/proportion better quality = higher score
Algorithm	N/A

	0264 Prophylactic intravenous (IV) antibiotic timing
Steward	ASC Quality Collaboration 5686 Escondida Blvd S St. Petersburg Florida 33715
Description	Rate of ASC patients who received IV antibiotics ordered for surgical site infection prophylaxis on time
Туре	Process
Data Source	Paper Records ASC medical records, as well as medication administration records, and variance reports may serve as data sources. No specific collection instrument is required although the ASC Quality Collaboration has developed a sample data collection instrument that may be used as desired. Facilities may use any collection instrument that allows tracking of the timing of prophylactic IV antibiotic administration for all admissions with a preoperative order for prophylaxis. URL Not required http://ascquality.org/documents/ASCQualityCollaborationImplementationGuide.pdf Not required URL http://ascquality.org/documents/ASCQualityCollaborationImplementationGuide.pdf Not required
Level	Facility
Setting	Ambulatory Care: Ambulatory Surgery Center (ASC)
Numerator Statement	Number of ambulatory surgical center (ASC) admissions with a preoperative order for a prophylactic IV antibiotic for prevention of surgical site infection who received the prophylactic antibiotic on time
Numerator Details	Time Window: In-facility, prior to discharge DEFINITIONS: Admission: completion of registration upon entry into the facility Prophylactic IV antibiotic for prevention of surgical site infection: an antibiotic prescribed with the intent of reducing the probability of an infection related to an invasive procedure; for purposes of this measures, the following are considered prophylactic for surgical site infection: ampicillin/sulbactam, aztreonam, cefazolin, cefmetazole, cefotetan, cefoxitin, cefuroxime, ciprofloxacin, clindamycin, ertapenem, erythromycin, gatifloxacin, gentamicin, levofloxacin, metronidazole, moxifloxacin, neomycin and vancomycin On time: antibiotic infusion is initiated within one hour prior to the time of the initial surgical incision or the beginning of the procedure (e.g., introduction of endoscope, insertion of needle, inflation of tourniquet) or two hours prior if vancomycin or a fluoroquinolone is administered
Denominator Statement	All ASC admissions with a preoperative order for a prophylactic IV antibiotic for prevention of surgical site infection
Denominator Categories	Female; Male All ages
Denominator Details	Time Window: In-facility, prior to discharge DEFINITIONS: Admission: completion of registration upon entry into the facility Prophylactic IV antibiotic for prevention of surgical site infection: an antibiotic prescribed with the intent of reducing the probability of an infection related to an invasive procedure; for purposes of this measures, the following are considered prophylactic for surgical site infection: ampicillin/sulbactam, aztreonam, cefazolin, cefmetazole, cefotetan, cefoxitin, cefuroxime, ciprofloxacin, clindamycin, ertapenem, erythromycin, gatifloxacin, gentamicin, levofloxacin, metronidazole,

	0264 Prophylactic intravenous (IV) antibiotic timing
	moxifloxacin, neomycin and vancomycin
Exclusions	ASC admissions with a preoperative order for a prophylactic IV antibiotic for prevention of infections other than surgical site infections (e.g., bacterial endocarditis). ASC admissions with a preoperative order for a prophylactic antibiotic not administered by the intravenous route.
Exclusion Details	The denominator exclusions do not require additional data collection. They are included to offer additional clarification to the measure user to help ensure only the specified admissions are included for measurement.
Risk Adjustment	no risk adjustment necessary Not applicable
Stratification	The measure is not stratified
Type Score	Rate/proportion better quality = higher score
Algorithm	The number of admissions with a preoperative order for a prophylactic IV antibiotic for prevention of surgical site infection who received the prophylactic antibiotic on time is divided by the number of ASC admissions with a preoperative order for a prophylactic IV antibiotic during the reporting period, yielding the rate of on time prophylactic IV antibiotic administration for the reporting period.

	0527 Prophylactic antibiotic received within 1 hour prior to surgical incision
Steward	Centers for Medicare & Medicaid Services
Description	Surgical patients with prophylactic antibiotics initiated within one hour prior to surgical incision. Patients who received vancomycin or a fluoroquinolone for prophylactic antibiotics should have the antibiotics initiated within two hours prior to surgical incision. Due to the longer infusion time required for vancomycin or a fluoroquinolone, it is acceptable to start these antibiotics within two hours prior to incision time.
Туре	Process
Data Source	Electronic administrative data/claims, Electronic Health/Medical Record, Paper medical record/flow-sheet Most facilities use vendors to collect and submit the data electronically. CMS provides a free, downloadable tool called CART. A paper tool modeled after the data collected electronically is provided as an attachment. CART downloads can be found on QualityNet.org at http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier2&cid=1138900279093 Attachment SCIPCARTpapertool_10.01.10-634328669255300860.doc URL http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier4&cid=1228754600169
Level	Can be measured at all levels, Facility/Agency, Population: National, Program: QIO
Setting	Hospital
Numerator Statement	Number of surgical patients with prophylactic antibiotics initiated within one hour prior to surgical incision (two hours if receiving vancomycin, in Appendix C, Table 3.8, or a fluoroquinolone, in Appendix C, Table 3.10).
Numerator Details	Time Window: Admission to Surgical Incision Time Data Elements: Anesthesia Start Date Antibiotic Administration Date Antibiotic Administration Time Surgical Incision Date
Denominator Statement	All selected surgical patients with no evidence of prior infection. Table 5.10 is the complete table of selected major surgeries
Denominator Categories	Female; Male Patients aged 18 and older
Denominator Details	Time Window: admission to discharge Included Populations: An ICD-9-CM Principal Procedure Code of selected surgeries (as defined in Appendix A, Table 5.10 for ICD-9-CM codes). AND An ICD-9-CM Principal Procedure Code of selected surgeries (as defined in Appendix A, Table 5.01-5.08 for ICD-9-CM

	0527 Prophylactic antibiotic received within 1 hour prior to surgical incision
	codes).
Exclusions	Patients less than 18 years of age Patients who have a Length of Stay greater than 120 days Patients who had a hysterectomy and a caesarean section performed during this hospitalization Patients who had a principal diagnosis suggestive of preoperative infectious diseases (as defined in Appendix A, Table 5.09 for ICD-9-CM codes) Patients whose ICD-9-CM principal procedure was performed entirely by Laparoscope Patients enrolled in clinical trials Patients whose ICD-9-CM principal procedure occurred prior to the date of admission Patients whose ICD-9-CM principal procedure occurred prior to the date of admission Patients with physician/advanced practice nurse/physician assistant (physician/APN/PA) documented infection prior to surgical procedure of interest Patients who had other procedures requiring general or spinal anesthesia that occurred within 3 days (4 days for CABG or Other Cardiac Surgery) prior to or after the procedure of interest (during separate surgical episodes) during this hospital stay Patients who were receiving antibiotics more than 24 hours prior to surgery Patients who were receiving antibiotics within 24 hours prior to arrival (except colon surgery patients taking oral prophylactic patients who were receiving antibiotics within 24 hours prior to arrival (except colon surgery patients taking oral prophylactic
Exclusion Details	antibiotics) Data Elements: Admission Date Antibiotic Received Birthdate Clinical Trial Discharge Date Infection Prior to Anesthesia Laparoscope Oral Antibiotics Other Surgeries
Risk	no risk adjustment necessary
Adjustment	
Stratification	The antibiotic prophylaxis measures are stratified according to surgery type. The tables are subsets of Table 5.10 (see link for Specification Manual and Appendix A, Tables 5.01 to 5.08. The specific procedures must be in the large table (Table 5.10) to be eligible for the SCIP measures. The measure specific tables for SCIP-Inf-1 are 5.01 to 5.08.
Type Score	Rate/proportion better quality = higher score
Algorithm	 1.Start processing. Run cases that are included in the Surgical Care Improvement Project (SCIP) Initial Patient Population and pass the edits defined in the Transmission Data Processing Flow: Clinical through this measure. 2.Calculate Patient Age. The Patient Age, in years, is equal to the Admission Date minus the Birthdate. Use the month and day portion of admission date and birthdate to yield the most accurate age. 3.Check Patient Age a.If the Patient Age is less than 18 years, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for Centers for Medicare and Medicaid Services (CMS). Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. b.If the Patient Age is greater than or equal to 18 years, continue processing and proceed to ICD-9-CM Principal Procedure Code. 4.Check ICD-9-CM Principal Procedure Code a.If the ICD-9-CM Principal Procedure Code a.If the ICD-9-CM Principal Procedure Code is not on Table 5.01 or 5.02 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.08, the case will proceed to a the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. b.If the ICD-9-CM Principal Procedure Code a.If the ICD-9-CM Principal Procedure Code is not and will not be in the Measure Population. Stop processing for CMS. Proceed to a tep 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. b.If the ICD-9-CM Principal Procedure Code is on Table 5.01 or 5.02 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.08, continue processing and proceed to recheck ICD-9-CM Principal Procedure Code. 5.Recheck ICD-9-CM Principal Procedure Code is on Table 5.01 or 5.02 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.08, continue processing and proceed to recheck ICD-9-CM Principal Procedure Code. 5.Recheck ICD-9-CM Principal Procedure Code is on Table

 Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. 2/if all of the (LO3-40.M Other Procedure Code is are missing or none are on Table 4.07, continue processing and proceed to (LO3-9.04.M Principal Diagnosis Code. 6) Check (LO3-9.04.M Principal Procedure Code is not to at ble 5.06 or 5.07, continue processing and proceed to ICD-9-04. Principal Diagnosis Code is not Table 5.09, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. b) if the (CD3-9.04.Principal Diagnosis Code is not on Table 5.09, continue processing and proceed to Laparoscope. 7.Check Laparoscope 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. b) if the processing for CMS. Proceed to table Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. c) if Laparoscope equals 1 or 3, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to table Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. c) if Laparoscope equals 1 or 3, the case will proceed to a Measure Category Assignment of X and will not be in the Measure Population. Stop processing for CMS. Proceed to table 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. c) if Laparoscope construction and the proceed to a Measure Category Assignment of X and will not be in the Measure Population. Stop processing for CMS. Proceed to table 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. b) if Clinical Trial equals Ves, the case will proceed to a Measure Category Assignment of X and will not be in the Measure Population. Stop processin	0527 Prophylactic antibiotic received within 1 hour prior to surgical incision
 2.If all of the ICD-9-CM Other Procedure Codes are missing or none are on Table 4.07, continue processing and proceed to ICD-9-CM Principal Diagnosis Code. b) If the ICD-9-CM Principal Diagnosis Code c) Check ICD-9-CM Principal Diagnosis Code is not Table 5.09 the case will proceed to a Measure Category Assignment of B and will not be in the Measure Fopulation. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. b) If the ICD-9-CM Principal Diagnosis Code is not Table 5.09, continue processing and proceed to Laparoscope. 7. Check Laparoscope is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. b) If the ICD-9-CM Principal Diagnosis Code is not an Table 5.09, continue processing and proceed to Laparoscope all Laparoscope is a discussing throaced to a Measure Category Assignment of X and will not be in the Measure Population. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. c) If Laparoscope equals 1 or 3, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. c) If Clinical Trial equals Yes, the case will proceed to a Measure Category Assignment of X and will not be in the Measure Population. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. c) If Clinical Trial equals Yes, the case will proceed to a Measure Category Assignment of X and will not be in the Measure Population. Stop processing for CMS. Proceed to step 36 and check the	Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission.
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processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission. b.If Other Surgeries equals Yes, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a)	a.If Other Surgeries is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop
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b.If Other Surgeries equals Yes, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a)	Commission.
Population. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a)	b.If Other Surgeries equals Yes, the case will proceed to a Measure Category Assignment of B and will not be in the Measure
	Population. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a)

0527 Prophylactic antibiotic received within 1 hour prior to surgical incision
for The Joint Commission.
c.If Other Surgeries equals No, continue processing and proceed to Surgical Incision Date.
14.Check Surgical Incision Date
a.If the Surgical Incision Date is missing, the case will proceed to a Measure Category Assignment of X and will be rejected.
Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP- Inf-1a) for The Joint
Commission.
b. If the Surgical Incision Date equals Unable To Determine, the case will proceed to a Measure Category Assignment of D
and will be in the Measure Population. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for
Overall Rate (SCIP-Inf-1a) for The Joint Commission.
c. If Surgical Incision Date equals a Non Unable To Determine Value, continue processing and proceed to Antibiotic Received.
15. Check Antibiotic Received
a If Antibiotic Received equals 1 or 2 continue processing and proceed to recheck ICD-9-CM Principal Procedure Code
b. If Antibiotic Received equals 4, the case will proceed to a Measure Category Assignment of D and will be in the Measure
Population Stop processing for CMS Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a)
for The Joint Commission
c If Antibiotic Received equals 3 continue processing and proceed to step 19 and check Antibiotic Name. Do not check ICD-
9-CM Principal Procedure Code. Oral Antibiotics or Antibiotic Received
16 Recheck ICD-9-CM Principal Procedure Code only if Antibiotic Received equals 1 or 2
a If the ICD-9-CM Principal Procedure Code is not on Table 5.03, the case will proceed to a Measure Category Assignment of
B and will not be in the measure population. Ston processing for CMS. Proceed to sten 36 and check the Stratified Measures
for Overall Rate (SCIP-Inf-1a) for The Joint Commission
h If the ICD-9-CM Principal Procedure Code is on Table 5.03, continue processing and proceed to check Oral Antibiotics
17 Check Oral Antibiotics
a If Oral Antibiotics is missing the case will proceed to a Measure Category Assignment of X and will be rejected. Stop
increasing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint
b. If Oral Antibiotics equals No, the case will proceed to a Measure Category Assignment of B and will not be in the Measure
Donulation Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a)
for The Joint Commission
c If Oral Antibiotics equals Yes, continue processing and proceed to recheck Antibiotic Received
18 Recheck Antibiotic Received
a If Antibiotic Received equals 1, the case will proceed to a Measure Category Assignment of D and will be in the Measure
Population Stop processing for CMS Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a)
for The Joint Commission
h If Antibiotic Received equals 2 continue processing and proceed to Antibiotic Name
19 Check Antibiotic Name
a If the Antibiotic Grid is not nonulated, the case will proceed to a Measure Category Assignment of X and will be rejected
Ston processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate
(SCIP.Inf.1a) for The Joint Commission. Note: The front-end edits reject cases containing invalid data and/or an incomplete
Antibiotic Grid. A complete Antibiotic Grid requires all data elements in the row to contain either a valid value and/or I Inable to
Determine
b If the Antibiotic Name is on Table 2.1, continue processing and proceed to Antibiotic Administration Route
20 Check Antibiotic Administration Route
a If the Antibiotic Administration Route is equal to 3 or 10 for all antibiotic doses, the case will proceed to a Measure Category
Assignment of D and will be in the Measure Population. Stop processing for CMS. Proceed to step 36 and check the
Stratified Measures for Overall Rate (SCIP.Inf.1a) for The Joint Commission
b If the Antibiotic Administration Route is equal to 1 or 2 for any antibiotic dose, continue processing and proceed to Antibiotic
Administration Date. Proceed only with antibiotic doses on Table 2.1 that are administered via routes 1 or 2
21 Check Antibiotic Administration Date
a If the Antibiotic Administration Date is equal to Unable to Determine for all antibiotic doses, the case will proceed to a
Measure Category Assignment of D and will be in the Measure Population. Stop processing for CMS. Proceed to step 36 and
check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission
b If the Antibiotic Administration Date is equal to a Non Unable to Determine date for at least one antibiotic dose continue
processing and proceed to the Antihiotic Days I calculation. Note: Proceed only with antihiotic doses that have an associated
non Unable to Determine date

	0527 Prophylactic antibiotic received within 1 hour prior to surgical incision
-	22.Calculate Antibiotic Days I. Antibiotic Days I, in days, is equal to the Surgical Incision Date minus the Antibiotic
	Administration Date.
	23.Check Antibiotic Days I
	a. If the Antibiotic Days I is greater than 1 for at least one antibiotic dose, continue processing and recheck the ICD-9-CM
	Principal Procedure Code
	h If the Antihiotic Days Lis less than or equal to 1 for all antihiotic doses, continue processing. Proceed to step 26 and
	recheck Antibiotics Days His loss and His equal to His an antibiotic desces, continue proceeding. His book to step 20 and
	2/ Rechark ICD-0-CM Principal Procedure Code only if the Antibiotic Days Lis greater than 1 for at least one antibiotic does
	a If the ICD 9 CM Principal Procedure Code is not on Table 5.03 the case will proceed to a Measure Category Assignment of
	B and will not be in the Measure Donulation. Ston processing for CMS, Proceed to step 36 and check the Stratified Measures
	for Overall Pote (SCIP Inf 1a) for The Joint Commission
	b If the ICD 0 CM Dringing Dreadure Code is an Table 5.02, continue processing and sheek Oral Antibiation
	25 Chock Oral Antibiotics
	2.5. Ofect Oral Antibiotics
	a.n Oral Antibiotics is missing, the case will proceed to a measure category Assignment of X and will be rejected. Stop
	processing for GMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SGP-Inf-1a) for The Joint
	b. If Oral Antibiotics equals No, the case will proceed to a Measure Category Assignment of B and will not be in the Measure
	Population. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a)
	for The Joint Commission.
	c.If Oral Antibiotics equals Yes, continue processing and proceed to step 27 and check Surgical Incision Time. Do not
	recheck Antibiotic Days I.
	26.Recheck Antibiotic Days I
	a.If the Antibiotic Days I is less than zero for all antibiotic doses, the case will proceed to a Measure Category Assignment of
	D and will be in the Measure Population. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for
	Overall Rate (SCIP-Inf-1a) for The Joint Commission.
	b.If the Antibiotic Days I is greater than or equal to zero for any antibiotic dose, continue processing and proceed to Surgical
	Incision Time.
	27.Check Surgical Incision Time
	a.If the Surgical Incision Time is missing, the case will proceed to a Measure Category Assignment of X and will be rejected.
	Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint
	Commission.
	b.If the Surgical Incision Time is equal to Unable to Determine, the case will proceed to a Measure Category Assignment of D
	and will be in the Measure Population. Stop processing for CMS. Proceed to step 36 and check the Stratified Measures for
	Overall Rate (SCIP-Inf-1a) for The Joint Commission.
	c.If the Surgical Incision Time is equal to a Non Unable to Determine Value, continue processing and check Antibiotic
	Administration Time.
	28.Check Antibiotic Administration Time
	a.If the Antibiotic Administration Time equals Unable to Determine for all antibiotic doses, the case will proceed to a Measure
	Category Assignment of D and will be in the Measure Population. Stop processing for CMS. Proceed to step 36 and check
	the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission.
	b.If the Antibiotic Administration Time equals a Non Unable to Determine time for at least one antibiotic dose, continue
	processing and proceed to the Antibiotic Timing I calculation. Note: Proceed only with antibiotic doses that have an
	associated non Unable to Determine time.
	29.Calculate Antibiotic Timing I. Antibiotic Timing I, in minutes, is equal to the Surgical Incision Date and Surgical Incision
	Time minus the Antibiotic Administration Date and Antibiotic Administration Time.
	30.Check Antibiotic Timing I
	a If the Antibiotic Timing Lis greater than 1440 minutes for any antibiotic dose, continue processing and recheck the ICD-9-
	CM Principal Procedure Code.
	b.If the Antibiotic Timing I is less than or equal to 1440 minutes for all antibiotic doses, continue processing. Proceed to step
	33 and recheck Antibiotic Timing I. Do not recheck ICD-9-CM Principal Procedure Code or Oral Antibiotics.
	31. Recheck ICD-9-CM Principal Procedure Code only if the Antibiotic Timing Lis greater than 1440 minutes for any antibiotic
	dose
	a. If the ICD-9-CM Principal Procedure Code is not on Table 5.03, the case will proceed to a Measure Category Assignment of
	B and will not be in the Measure Population. Ston processing for CMS. Proceed to step 36 and check the Stratified Measures
	for Overall Rate (SCIP-Inf-1a) for The Joint Commission.

0527 Prophylactic antibiotic received within 1 hour prior to surgical incision
b.If the ICD-9-CM Principal Procedure Code is on Table 5.03, continue processing and check Oral Antibiotics.
32.Check Oral Antibiotics
a.If Oral Antibiotics is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop
processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint
Commission
b If Oral Antibiotics equals No, the case will proceed to a Measure Category Assignment of B and will not be in the Measure
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r opulation. Stop Creating ter Manual for National Happital Innationt Quality Magguran
Discharges 10 01 10 (4010) through 02 21 11 (1011) CCID left 1 19
Discritiges 10-01-10 (4Q10) (infough 05-31-11 (1Q11) SCIP-Ini-1-10
Continuission.
c.If Oral Antibiotics equals Yes, continue processing and proceed to recneck Antibiotic Timing I.
33. Recneck Antibiotic Timing I
a.If the Antibiotic Timing Tis greater than or equal to zero minutes and less than or equal to 60 minutes for at least one
antibiotic dose, the case will proceed to a Measure Category Assignment of E and will be in the Numerator Population. Stop
processing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint
Commission.
b.It the Antibiotic Liming Lis less than zero minutes or greater than 60 minutes for all antibiotic doses, continue processing
and recheck Antibiotic Name.
34.Recheck Antibiotic Name
a. If the Antibiotic Name is on Table 3.8 or Table 3.10 for at least one dose, continue processing and recheck Antibiotic Timing
Ι.
b.If the Antibiotic Name is not on Table 3.8 or Table 3.10 for any dose, the case will proceed to a Measure Category
Assignment of D and will be in the Measure Population. Do not recheck Antibiotic Timing I. Stop processing for CMS.
Proceed to step 36 and check the Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission.
35.Recheck Antibiotic Timing I
a. If the Antibiotic Timing I is greater than 60 minutes and less than or equal to 120 minutes for at least one antibiotic dose on
Table 3.8 or Table 3.10, the case will proceed to a Measure Category Assignment of E and will be in the Numerator
Population. Stop processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint
Commission.
b.If the Antibiotic Timing I is less than zero minutes or greater than 120 minutes for all antibiotic doses on Table 3.8 or Table
3.10, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing
for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-Inf-1a) for The Joint Commission.
36. For The Joint Commission Only, continue processing for the Stratified Measures. Note: Initialize the Measure Category
Assignment for each strata measure (b-g) to equal B, not in the Measure Population. Do not change the Measure Category
Assignment that was already calculated for the overall rate (SCIP-Inf-1a). The rest of the algorithm will reset the appropriate
Measure Category Assignment to be equal to the overall rate's (SCIP-Inf-1a) Measure Category Assignment.
37.Check Overall Rate Category Assignment
a. If the Overall Rate Category Assignment is equal to B or X, set the Measure Category Assignment for the strata measures
(SCIP-Inf-1b through SCIP-Inf-1h) to equal B, not in the Measure Population. Stop processing.
b. If the Overall Rate Category Assignment is equal to D or E, continue processing and check the ICD-9-CM Principal
Procedure Code.
38 Check ICD-9-CM Principal Procedure Code
a If the ICD-9-CM Principal Procedure Code is on Table 5.01 for Stratified Measure SCIP-Inf-1b, set the Measure Category
Assignment for measure SCIP-Inf-1b to equal the Measure Category Assignment for measure SCIP-Inf-1a. Stop processing
b If the ICD-9-CM Principal Procedure Code is on Table 5.02 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.08 continue
processing and recheck the ICD-9-CM Principal Procedure Code
39 Recheck ICD-9-CM Principal Procedure Code
a If the ICD-9-CM Principal Procedure Code is on Table 5.02 for Stratified Measure SCIP-Inf-1c set the Measure Category
Assignment for measure SCIP-Inf-1c to equal the Measure Category Assignment for measure SCIP-Inf-1a. Stop processing
h If the ICD-9-CM Principal Procedure Code is on Table 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.08 continue processing and
rechark the ICD.9-CM Principal Procedure Code
10 Recheck ICD 0 CM Principal Procedure Code.
HUNGUIGUN ICU-J-UNI FINICIPAL FIDUCUULE COULE
a.ii uie iou-9-oivi Filiicipai Procedure Code is oir rable 5.04, for Stratilied Measure SCIP-Int-10, set the Measure Category
Assignment for measure SCIP-Int- to to equal the Measure Category Assignment for measure SCIP-Int-Ta. Stop processing.

0527 Prophylactic antibiotic received within 1 hour prior to surgical incision
b.If the ICD-9-CM Principal Procedure Code is on Table 5.03 or 5.05 or 5.06 or 5.07 or 5.08, continue processing and recheck the ICD-9-CM Principal Procedure Code. 41.Recheck ICD-9-CM Principal Procedure Code
a.If the ICD-9-CM Principal Procedure Code is on Table 5.05, for Stratified Measure SCIP-Inf-1e, set the Measure Category Assignment for measure
SCIP-Inf-1e to equal the Measure Category Assignment for measure SCIP-Inf-1a. Stop processing.
b.If the ICD-9-CM Principal Procedure Code is on Table 5.03 or 5.06 or 5.07 or 5.08, continue processing and recheck the ICD-9-CM Principal Procedure Code.
42.Recheck ICD-9-CM Principal Procedure Code
 a.If the ICD-9-CM Principal Procedure Code is on Table 5.03, for Stratified Measure SCIP-Inf-1f, set the Measure Category Assignment for measure SCIP-Inf-1f to equal the Measure Category Assignment for measure SCIP-Inf-1a. Stop processing. b.If the ICD-9-CM Principal Procedure Code is on Table 5.06 or 5.07 or 5.08, continue processing and recheck the ICD-9-CM Principal Procedure Code. 43.Recheck ICD-9-CM Principal Procedure Code
a.If the ICD-9-CM Principal Procedure Code is on Table 5.06 or 5.07, for Stratified Measure SCIP-Inf-1g, set the Measure Category Assignment for measure SCIP-Inf-1a. Stop processing.
b.If the ICD-9-CM Principal Procedure Code is on Table 5.08, for Stratified Measure SCIP-Inf-1h, set the Measure Category Assignment for measure SCIP-Inf-1h to equal the Measure Category Assignment for measure SCIP-Inf-1a. Stop processing.

1APPENDIX B—NATIONAL VOLUNTARY CONSENSUS STANDARDS: SURGERY2ENDORSEMENT MAINTENANCE 2010 STEERING COMMITTEE AND NQF STAFF

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APPENDIX C—COMPARISON OF RELATED MEASURES

AAA Repair

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Desphylostic Artibiotics, Discontinued	
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Statin Medication	
0118: Anti-lipid treatment discharge	
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AAA	Repair	
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	Maintenance Measure 0357: Abdominal aortic aneurysm (AAA) repair volume (IQI 4)	Maintenance Measure 0359: Abdominal aortic artery (AAA) repair mortality rate (IQI 11)	Endorsed Measure 0736: Survival predictor for abdominal aortic aneurysm (AAA)	New Candidate Standard 1523: In- hospital mortality following elective open repair of small AAAs	New Candidate Standard 1534 : In-hospital mortality following elective EVAR of small AAAs
Status	Currently undergoing review	Currently undergoing review	Endorsed 9/2010	Currently undergoing review	Currently undergoing review
Steward	Agency for Healthcare Research and Quality	Agency for Healthcare Research and Quality	Leapfrog Group	Society for Vascular Surgery	Society for Vascular Surgery
Description	Count of adult hospital discharges in a one year time period with a procedure code of AAA repair.	Percent of adult hosptial discharges in a one-year time period with a procedure code of AAA repair and a diagnosis of AAA with an in-hospital death.	A reliability adjusted measure of AAA repair performance that optimally combines two important domains: AAA hospital volume and AAA operative mortality, to provide predictions on hospital AAA survival rates in patients age 18 and over.	Percentage of asymptomatic patients undergoing open repair of small abdominal aortic aneurysms (AAA) who die while in hospital. This measure is proposed for both hospitals and individual providers.	Percentage of patients undergoing elective endovascular repair of small asymptomatic abdominal aortic aneurysms (AAA) who die while in hospital. This measure is proposed for both hospitals and individual providers.
Type of Measure	Structure/management	Outcome	Outcome	Outcome	Outcome
Numerator	Discharges, age 18 years and older, with an abdominal aortic aneurysm repair procedure and a primary or secondary diagnosis of AAA. Time window: Time window can be determined by user, but is generally a calendar year.	Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator. Time window: Time window can be determined by user, but is generally a calendar year.	Survival rate for patients age 18 and over without AAA rupture who undergo an AAA repair. Time Window: During the hospital admission	Mortality following elective open repair of asymptomatic AAAs in men with < 6 cm dia and women with < 5.5 cm dia AAAs. Time window: Since hospitals have sufficient annual volume to generate accurate reporting levels, these are proposed for reporting every 12 months for hospital. Since surgeons	Mortality following elective endovascular AAA repair of asymptomatic AAAs in men with < 6 cm dia and women with < 5.5 cm dia AAAs. Time window: Since hospitals have sufficient annual volume to generate accurate reporting levels, these are proposed for reporting every 12 months for hospital. Since

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	Maintenance Measure 0357: Abdominal aortic aneurysm (AAA) repair volume (IQI 4)	Maintenance Measure 0359: Abdominal aortic artery (AAA) repair mortality rate (IQI 11)	Endorsed Measure 0736: Survival predictor for abdominal aortic aneurysm (AAA)	New Candidate Standard 1523: In- hospital mortality following elective open repair of small AAAs	New Candidate Standard 1534 : In-hospital mortality following elective EVAR of small AAAs
				have lower individual volume, we recommend annual reporting of the last 50 consecutive procedures, which may span more than one year, with suppression if < 10 procedures (i.e., reported as too low volume to report).	surgeons have lower individual volume, we recommend annual reporting of the last 50 consecutive procedures, which may span more than one year, with suppression if < 10 procedures (i.e., reported as too low volume to report).
Numerator Details	ICD-9-CM AAA procedure codes: 3834 AORTA RESECTION & ANAST 3844 RESECT ABDM AORTA W REPL 3864 EXCISION OF AORTA 3971 ENDO IMPLANT OF GRAFT IN AORTA ICD-9-CM AAA diagnosis codes: 4413 RUPT ABD AORTIC ANEURYSM 4414 ABDOM AORTIC ANEURYSM	Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.	For the observed mortality, the hospital submits the observed deaths for AAA cases in patients without rupture as identified using the denominator and exclusion codes.	ANY registry that includes hospitalization details, AAA diameter and discharge status is required to identify patients for numerator inclusion. The Society for Vascular Surgery Vascular Quality Initiative (SVS VQI) and the Vascular Study Group of New England (VSGNE) are examples of registries that record such information but the measure is not limited to these registries. Patients who died in hospital following elective open infrarenal AAA repair if their aneurysm was asymptomatic and small	ANY registry that includes hospitalization details, AAA diameter and discharge status is required to identify patients for numerator inclusion. The Society for Vascular Surgery Vascular Quality Initiative (SVS VQI) and the Vascular Study Group of New England (VSGNE) are examples of registries that record such information but the measure is not limited to these registries. Patients who died in hospital following endovascular infrarenal AAA repair (EVAR) if their asymptomatic aneurysm was repaired

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	Maintenance Measure 0357: Abdominal aortic aneurysm (AAA) repair volume (IQI 4)	Maintenance Measure 0359: Abdominal aortic artery (AAA) repair mortality rate (IQI 11)	Endorsed Measure 0736: Survival predictor for abdominal aortic aneurysm (AAA)	New Candidate Standard 1523: In- hospital mortality following elective open repair of small AAAs (< 6cm dia in men, <5.5	New Candidate Standard 1534: In-hospital mortality following elective EVAR of small AAAs electively and was
				cm dia in women, judged by preoperative imaging (CT, MR or ultrasound)).	asymptomatic and small (< 6cm dia in men, <5.5 cm dia in women, judged by preoperative imaging (CT, MR or ultrasound)).
Denominator	N/A	Discharges, age 18 years and older, with ICD-9-CM AAA repair code procedure and a diagnosis of AAA in any field. The denominator may be stratified by open vs. endovascular procedures, and ruptured vs. un- reuptured AAA. Time window: Time window can be determined by user, but is generally a calendar year.	All hospital patients age 18 and over without rupture who had an AAA repair. Time Window: 12 months	All elective open repairs of asymptomatic AAAs in men with < 6 cm dia and women with < 5.5 cm dia AAAs. Time window: Since hospitals have sufficient annual volume to generate accurate reporting levels, these are proposed for reporting every 12 months for hospital. Since surgeons have lower individual volume, we recommend annual reporting of the last 50 consecutive procedures, which may span more than one year, with suppression if < 10 procedures (i.e., reported as too low volume to report).	All elective endovascular repairs of asymptomatic AAAs in men with < 6 cm dia and women with < 5.5 cm dia AAAs. Time window: Since hospitals have sufficient annual volume to generate accurate reporting levels, these are proposed for reporting every 12 months for hospital. Since surgeons have lower individual volume, we recommend annual reporting of the last 50 consecutive procedures, which may span more than one year, with suppression if < 10 procedures (i.e., reported as too low volume to report).
Denominator Categories	Female, Male; 18 and	Female, Male; 18 and older		Female, Male; 18 years or	Female, Male; 18 years or older
Denominator	N/A	Discharges, age 18 years	For the volume predicted	ANY registry that	ANY registry that

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	Maintenance Measure	Maintenance Measure	Endorsed Measure 0736:	New Candidate	New Candidate Standard
	0357: Abdominal aortic	0359: Abdominal aortic	Survival predictor for	Standard 1523: In-	1534 : In-hospital mortality
	aneurysm (AAA) repair	artery (AAA) repair	abdominal aortic	hospital mortality	following elective EVAR
	volume (IOI 4)	mortality rate (IOI 11)	aneurysm (AAA)	following elective open	of small AAAs
				repair of small AAAs	
Details		and older, with ICD-9-CM	mortality, hospitals count	includes hospitalization	includes hospitalization
		AAA repair code	the number of all AAA	details, AAA diameter	details, AAA diameter
		procedure and a diagnosis	repair cases using the	and discharge status is	and discharge status is
		of AAA in any field.	following procedure	required to identify	required to identify
		ICD-9-CM AAA repair	codes.	patients for denominator	patients for denominator
		procedure codes:		inclusion. The Society for	inclusion. The Society for
		3834	ICD-9-CM Procedure	Vascular Surgery	Vascular Surgery Vascular
		AORTA RESECTION &	Codes for AAA repair	Vascular Quality	Quality Initiative (SVS
		ANAST	3834 Aorta Resection &	Initiative (SVS VQI) and	VQI) and the Vascular
		3844	Anast	the Vascular Study	Study Group of New
		RESECT ABDM AORTA	3844 Resection	Group of New England	England (VSGNE) are
		W REPL	Abdominal Aorta with	(VSGNE) are examples of	examples of registries that
		3864	replacement	registries that record such	record such information
		EXCISION OF AORTA	3864 Excision of aorta	information but the	but the measure is not
		3971	3925 Aorta-iliac-femoral	measure is not limited to	limited to these registries.
		ENDO IMPLANT OF	bypass	these registries. Patients	Patients who underwent
		GRAFT IN AORTA	3971 Endo Implant of	who underwent elective	endovascular AAA repair
			Graft in Aorta	open AAA repair are	are included if their
		ICD-9-CM AAA diagnosis		included if their	aneurysm was
		codes:	For the observed	aneurysm was	asymptomatic and small
		4413	mortality hospitals count	asymptomatic and small	(< 6cm dia in men, <5.5
		RUPT ABD AORTIC	the number of AAA	(< 6cm dia in men, <5.5	cm dia in women, judged
		ANEURYSM	repair cases that also	cm dia in women, judged	by preoperative imaging).
		4414	have a diagnosis of	by preoperative imaging	
		ABDOM AORTIC	unruptured AAA using	(CT, MR or ultrasound)).	
		ANEURYSM	the following codes.		
			ICD-9CM Codes for AAA		
			without rupture		
			441.4 Dissection of aorta		
			aneurysm unspecified		
			site		
			441.7 Thoracoabdominal		

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			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
	Maintenance Measure 0357: Abdominal aortic aneurysm (AAA) repair volume (IQI 4)	Maintenance Measure 0359: Abdominal aortic artery (AAA) repair mortality rate (IQI 11)	Endorsed Measure 0736: Survival predictor for abdominal aortic aneurysm (AAA)	New Candidate Standard 1523: In- hospital mortality following elective open repair of small AAAs	New Candidate Standard 1534: In-hospital mortality following elective EVAR of small AAAs
			aneurysm without rupture 441.9 Aortic aneurysm of unspecified site without rupture		
Exclusions	> 6 cm diameter - men > 5.5 cm diameter - women Symptomatic AAAs that required urgent/emergent (non- elective) repair	 Exclude cases: missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), quarter (DQTR=missing) or principal diagnosis (DX1 =missing) transferring to another short-term hospital (DISP=2) MDC 14 (pregnancy, childbirth, and puerperium) 	Patients with ruptured aneurysm or thoracoabdominal aneurysms.	> 6 cm minor diameter - men > 5.5 cm minor diameter - women Symptomatic AAAs that required urgent/emergent (non- elective) repair	> 6 cm diameter - men > 5.5 cm diameter - women Symptomatic AAAs that required urgent/emergent (non-elective) repair
Exclusion Details	This volume measure does not have a denominator.	Exclude cases: • missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1 =missing) • transferring to another short-term hospital	For the count of all AAA procedures exclude: 3845 Thoracoabdominal procedures. For the observed mortality domain, exclude all Thoracic Diagnosis Codes and dissection codes for AAA 441.0x General code 441.1 Thoracic aneurysm	Patients undergoing non- elective open repair of symptomatic AAAs or those with AAAs larger than the diameters noted above.	Patients undergoing non- elective open repair of symptomatic AAAs or those with AAAs larger than the diameters noted above.

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	Maintenance Measure 0357: Abdominal aortic aneurysm (AAA) repair	Maintenance Measure 0359: Abdominal aortic artery (AAA) repair	Endorsed Measure 0736: Survival predictor for abdominal aortic	New Candidate Standard 1523: In- hospital mortality	New Candidate Standard 1534 : In-hospital mortality following elective EVAR
	volume (IQI 4)	mortality rate (IQI 11)	aneurysm (AAA)	following elective open repair of small AAAs	of small AAAs
		(DISP=2) • MDC 14 (pregnancy, childbirth, and puerperium)	ruptured 441.2 Thoracic aneurysm without rupture 441.3 Abdominal aneurysm ruptured 441.5 Aortic aneurysm of unspecified site ruptured 441.6 Thoracoabdominal aneurysm ruptured. Mortality Domain does exclude thoracic aneurysm Procedure Code: 38.45 Resection of vessel with replacement, other thoracic vessels		
Risk Adjustment	No risk adjustment necessary	Risk adjustment method widely or commercially available. The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) and covariates for gender, age in years (in 5-year age groups), All Patient Refined-Diagnosis Related Group (APR-DRG) and APR-DRG risk-of- mortality subclass. The reference population used	We used an empirical Bayes approach to combine mortality rates with information on hospital volume at each hospital. In traditional empirical Bayes methods, a point estimate (e.g., mortality rate observed at a hospital) is adjusted for reliability by shrinking it towards the overall mean (e.g., overall mortality rate in the population). We modified this traditional approach by	No risk adjustment necessary	No risk adjustment necessary

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Maintenance Measure	Maintenance Measure	Endorsed Measure 0736:	New Candidate	New Candidate Standard
0357: Abdominal aortic	0359: Abdominal aortic	Survival predictor for	Standard 1523: In-	1534 : In-hospital mortality
aneurysm (AAA) repair	artery (AAA) repair	abdominal aortic	hospital mortality	following elective EVAR
volume (IQI 4)	mortality rate (IQI 11)	aneurysm (AAA)	following elective open	of small AAAs
			repair of small AAAs	
	in the model is the	shrinking the observed		
	universe of discharges for	mortality rate back		
	states that participate in	toward the mortality rate		
	the HCUP State Inpatient	expected given the		
	Databases (SID) for the	volume at that hospital –		
	year 2008 (updated	we refer to this as the		
	annually), a database	"volume-predicted		
	consisting of 43 states and	mortality". With this		
	approximately 30 million	approach, the observed		
	adult discharges. The	mortality rate is weighted		
	expected rate is computed	according to how reliably		
	as the sum of the	it is estimated, with the		
	predicted value for each	remaining weight placed		
	case divided by the	on the information		
	number of cases for the	regarding hospital		
	unit of analysis of interest	volume [volume-		
	(i.e., hospital). The risk	predicted mortality].		
	adjusted rate is computed			
	using indirect	Risk adjustment for		
	standardization as the	patient characteristics is		
	observed rate divided by	not used because in		
	the expected rate,	sensitivity analysis,		
	multiplied by the	composite measures		
	reference population rate.	based on an unadjusted		
	Risk adjustment factors:	mortality input and a		
	sex	risk-adjusted mortality		
	age 18-24; age 25-29; age	input had a correlation of		
	30-34; age 35-39; age 40-44;	(.95) and thus were		
	age 45-49; age 50-54; age	equally good at		
	55-59; age 60-64; age 65-69;	predicting future		
	age 70-74; age 75-79; age	performance.		
	80-84; age 85+			
	each age category*female	The formula for		

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Maintenance Measure	Maintenance Measure	Endorsed Measure 0736:	New Candidate	New Candidate Standard
0357: Abdominal aortic	0359: Abdominal aortic	Survival predictor for	Standard 1523: In-	1534 : In-hospital mortality
aneurysm (AAA) repair	artery (AAA) repair	abdominal aortic	hospital mortality	following elective EVAR
volume (IQI 4)	mortality rate (IQI 11)	aneurysm (AAA)	following elective open	of small AAAs
			repair of small AAAs	
	ADRG 1731 (other	calculating the survival		
	vascular procedures-	predictor has two		
	minor)	components, one is a		
	ADRG 1732 (other	volume predicted		
	vascular procedures-	mortality rate, and the		
	moderate)	second is an observed		
	ADRG 1733 (other	mortality rate.		
	vascular procedures-			
	major)	The volume predicted		
	ADRG 1734 (other	mortality rate reflects the		
	vascular procedures-	hospitals experience		
	extreme)	performing AAA		
	ADRG 1691 (major	surgeries (thus, it		
	thoracic and abdominal	includes all AAA		
	vascular procedures-	surgeries) and uses		
	minor)	mortality for all hospitals		
	ADRG 1692 (major	at that specific volume to		
	thoracic and abdominal	create the volume		
	vascular procedures-	predicted mortality. The		
	moderate)	input data from the		
	ADRG 1693 (major	hospitals for this domain		
	thoracic and abdominal	is a volume count of all		
	vascular procedures-	AAAs performed in the		
	major)	hospital.		
	ADRG 1694 (major			
	thoracic and abdominal	The second domain is the		
	vascular procedures-	observed mortality, for		
	extreme	this domain the		
	ADKG 9999 (other)	population is the group		
	MDC 5 (Cardiovascular)	ot AAA cases without		
	Transfer-in status	rupture, the data needed		
		tor this domain is the		
		number of observed		

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Maintenance Measure 0357: Abdominal aortic aneurysm (AAA) repair volume (IQI 4)	Maintenance Measure 0359: Abdominal aortic artery (AAA) repair mortality rate (IQI 11)	Endorsed Measure 0736: Survival predictor for abdominal aortic aneurysm (AAA)	New Candidate Standard 1523: In- hospital mortality following elective open repair of small AAAs	New Candidate Standard 1534 : In-hospital mortality following elective EVAR of small AAAs
		deaths occurring for AAA cases without rupture, within the inpatient setting. The general composite measure calculation is as		
		Predicted Survival = 1- Predicted Mortality Predicted Mortality = (weight)*(mortality) + (1- weight)*(volume predicted mortality)		
		Volume predicted mortality* = intercept - coefficient*ln(caseload), where the intercepts and coefficients are derived from regression using the NIS data and the caseload comes from the Leapfrog		
		Hospital Survey (answer to question #1 for each high-risk procedure). *Any negative values are reset to "0" Weight = mortality signal/(mortality signal + [mortality		

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Maintenance Measure	Maintenance Measure	Endorsed Measure 0736:	New Candidate	New Candidate Standard
0357: Abdominal aortic	0359: Abdominal aortic	Survival predictor for	Standard 1523: In-	1534: In-hospital mortality
aneurysm (AAA) repair	artery (AAA) repair	abdominal aortic	hospital mortality	following elective EVAR
volume (IOI 4)	mortality rate (IOI 11)	aneurysm (AAA)	following elective open	of small AAAs
			repair of small AAAs	
		sigma/caseload]), where	•	
		mortality signal and		
		sigma are derived from		
		the NIS data and the		
		caseload comes from the		
		Leapfrog Hospital Survey		
		(answer to question #1		
		for each high-risk		
		procedure).		
		- /		
		Method: We used an		
		empirical Bayes approach		
		to combine mortality		
		rates with information on		
		hospital volume at each		
		hospital. In traditional		
		empirical Bayes methods,		
		a point estimate (e.g.,		
		mortality rate observed at		
		a hospital) is adjusted for		
		reliability by shrinking it		
		towards the overall mean		
		(e.g., overall mortality		
		rate in the population).		
		We modified this		
		traditional approach by		
		shrinking the observed		
		mortality rate back		
		toward the mortality rate		
		expected given the		
		volume at that hospital –		
		we refer to this as the		
		"volume-predicted		

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Maintenance Measure	Maintenance Measure	Endorsed Measure 0736:	New Candidate	New Candidate Standard
0357: Abdominal aortic	0359 : Abdominal aortic	Survival predictor for	Standard 1523: In-	1534: In-hospital mortality
aneurysm (AAA) repair	artery (AAA) repair	abdominal aortic	hospital mortality	following elective EVAR
volume (IQI 4)	mortality rate (IQI 11)	aneurysm (AAA)	following elective open	of small AAAs
			repair of small AAAs	
		mortality". With this		
		approach, the observed		
		mortality rate is weighted		
		according to how reliably		
		it is estimated, with the		
		remaining weight placed		
		on the information		
		regarding hospital		
		volume [volume-		
		predicted mortality].		
		Rick adjustment for		
		nationt characteristics is		
		patient characteristics is		
		sensitivity analysis		
		composite measures		
		based on an unadjusted		
		mortality input and a		
		risk-adjusted mortality		
		input had a correlation of		
		(.95) and thus were		
		equally good at		
		predicting future		
		performance.		
		The formula for		
		calculating the survival		
		predictor has two		
		components, one is a		
		volume predicted		
		mortality rate, and the		
		second is an observed		
		mortality rate.		

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Maintena 0357: Abd aneurysm volume (I	nce Measure ominal aortic (AAA) repairMaintenance Me 0359: Abdominal artery (AAA) rep mortality rate (IQ	easureEndorsed Measure 073al aorticSurvival predictor forpairabdominal aorticQI 11)aneurysm (AAA)	6: New Candidate Standard 1523: In- hospital mortality following elective open repair of small AAAs	New Candidate Standard 1534 : In-hospital mortality following elective EVAR of small AAAs
		The volume predicted mortality rate reflects th hospitals experience performing AAA surgeries (thus, it includes all AAA surgeries) and uses mortality for all hospita at that specific volume create the volume predicted mortality. Th input data from the hospitals for this domai is a volume count of all AAAs performed in the hospital. The second domain is t observed mortality, for this domain the population is the group of AAA cases without rupture, the data needed for this domain is the number of observed deaths occurring for AAA cases without rupture, within the	he he he	
		inpatient setting. The general composite measure calculation is a	as	

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Maintenance Measure 0357: Abdominal aortic	Maintenance Measure 0359: Abdominal aortic	Endorsed Measure 0736: Survival predictor for	New Candidate Standard 1523: In-	New Candidate Standard 1534: In-hospital mortality
aneurysm (AAA) repair	artery (AAA) repair	abdominal aortic	hospital mortality	following elective EVAR
volume (IQI 4)	mortality rate (IQI 11)	aneurysm (AAA)	following elective open	of small AAAs
		follows:		
		Predicted Survival = 1-		
		Predicted Mortality		
		Predicted Mortality =		
		(weight)*(mortality) + (1-		
		weight)*(volume		
		predicted mortality)		
		Volume predicted		
		mortality* = intercept -		
		coefficient*ln(caseload),		
		where the intercepts and		
		coefficients are derived		
		from regression using the		
		INIS data and the caseload		
		Hospital Survey (answer		
		to question #1 for each		
		high-risk procedure).		
		*Any negative values are		
		reset to "0"		
		Weight = mortality		
		signal/(mortality signal +		
		[mortality		
		sigma/caseload]), where		
		mortality signal and		
		sigma are derived from		
		the NIS data and the		
		caseload comes from the		
		(answer to question #1		

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	Maintenance Measure 0357: Abdominal aortic aneurysm (AAA) repair volume (IQI 4)	Maintenance Measure 0359: Abdominal aortic artery (AAA) repair mortality rate (IQI 11)	Endorsed Measure 0736: Survival predictor for abdominal aortic aneurysm (AAA)	New Candidate Standard 1523: In- hospital mortality following elective open	New Candidate Standard 1534 : In-hospital mortality following elective EVAR of small AAAs
				repair of small AAAs	
			for each high-risk procedure).		
Stratification	The stratification of the	Gender, age (5-year age		N/A	N/A
	denominator for open vs.	groups), race/ ethnicity,			
	endovascular and	primary payer, custom			
	ruptured vs. unruptured	The stratification of the			
	involve the following	denominator for open vs.			
	codes in the denominator	endovascular and			
	specification:	ruptured vs. unruptured			
	AAA Repair	involves the following			
	ICD-9-CM Procedure	codes in the denominator			
	Codes:	specification:			
	OPEN;	AAA Repair			
	3834 =AORTA	ICD-9-CM Procedure			
	RESECTION & ANAST	Codes:			
	3844 = RESECT ABDM	OPEN			
	AORTA W REPL	3834 = AORTA			
	3864 = EXCISION OF	RESECTION & ANAST			
	AORTA	3844= 1RESECT ABDM			
	ENDOVASCULAR;	AORTA W REPL			
	3971 = ENDO IMPL	3864 = EXCISION OF			
	GRFT ABD AORTA	AORTA			
	Include Only: AAA	ENDOVASCULAR			
	ICD-9-CM Diagnosis	3971 = ENDO IMPL GRFT			
	Codes:	ABD AORTA			
	RUPTURED;	AAA			
	4413 = RUPT ABD	ICD-9-CM Diagnosis			
	AORTIC ANEURYSM	Codes:			
	UNRUPTURED	RUPTURED			
	4414 = ABDOM AORTIC	4413 = RUPT ABD			
	ANEURYSM	AORTIC ANEURYSM			
		UNRUPTURED			
		4414 = ABDOM AORTIC			

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	Maintenance Measure	Maintenance Measure	Endorsed Measure 0736:	New Candidate	New Candidate Standard
	0357: Abdominal aortic	0359: Abdominal aortic	Survival predictor for	Standard 1523: In-	1534 : In-hospital mortality
	aneurysm (AAA) repair	artery (AAA) repair	abdominal aortic	hospital mortality	following elective EVAR
	volume (IQI 4)	mortality rate (IQI 11)	aneurysm (AAA)	following elective open	of small AAAs
				repair of small AAAs	
		ANEURYSM			
Type Score	Count	Rate/proportion		Rate/proportion	Rate/proportion
Algorithm	The volume is the	Each indicator is		Identify denominator,	Identify denominator,
	number of discharges	expressed as a rate, is		exclude non-elective	exclude non-elective
	with a diagnosis of, and a	defined as outcome of		repair of symptomatic or	repair of symptomatic or
	procedure for AAA.	interest / population at		ruptured patients and	ruptured patients and
		risk or numerator /		men with AAA >6 cm,	men with AAA >6 cm,
		denominator. The AHRQ		and women with AAA	and women with AAA
		Quality Indicators (AHRQ		>5.5, find number of	>5.5, find number of
		QI) software performs five		deaths	deaths
		steps to produce the rates.		Outcome = deaths/ #	Outcome = deaths/ #
		1) Discharge-level data is		cases	cases
		used to mark inpatient			
		records containing the			
		outcome of interest and 2)			
		the population at risk. For			
		provider indicators, the			
		population at risk is also			
		derived from hospital			
		discharge records; for area			
		indicators, the population			
		at risk is derived from U.S.			
		Census data. 3) Calculate			
		observed rates. Using			
		output from steps 1 and 2,			
		rates are calculated for			
		user-specified			
		combinations of stratifiers.			
		4) Calculate expected			
		rates. Regression			
		coefficients from a			
		reference population			
		database are applied to the			

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	Maintenance Measure	Maintenance Measure	Endorsed Measure 0736:	New Candidate	New Candidate Standard
	0357: Abdominal aortic	0359: Abdominal aortic	Survival predictor for	Standard 1523: In-	1534 : In-hospital mortality
	aneurysm (AAA) repair	artery (AAA) repair	abdominal aortic	hospital mortality	following elective EVAR
	volume (IQI 4)	mortality rate (IQI 11)	aneurysm (AAA)	following elective open	of small AAAs
				repair of small AAAs	
		discharge records and			
		aggregated to the provider			
		or area level. 5) Calculate			
		risk-adjusted rate. Use the			
		indirect standardization to			
		account for case-mix. 6)			
		Calculate smoothed rate.			
		A Univariate shrinkage			
		factor is applied to the			
		risk-adjusted rates. The			
		shrinkage estimate reflects			
		a reliability adjustment			
		unique to each indicator.			
		Full information on			
		calculation algorithms and			
		specifications can be found			
		at			
		http://qualityindicators.a			
		hrq.gov/IQI_download.ht			
		m			
Data Source	Electronic administrative	Electronic administrative	Electronic administrative	Registry data	Registry data
	data/claims	data/claims	data/claims	<u> </u>	
Level of	Facility/agency	Facility/agency	Facility/agency	Clinicians: Individual,	Clinicians: Individual,
Measurement				group; Facility/agency;	group; Facility/agency;
/Analysis					
Care Settings	Hospital	Hospital	Hospital	Hospital	Hospital

Beta Blocker				
Status	Endorsed Measure 0235: Pre-op beta blocker in patient with isolated CABG (1) Endorsed 5/2007	Maintenance Measure 0127: Pre-operative beta blockade Currently undergoing	Endorsed Measure 0236: Pre-op beta-blocker in patient with isolated CABG (2) Endorsed 5/2007	Maintenance Measure 0284: Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period Currently undergoing
		maintenance review		maintenance review
Steward	Society of Thoracic Surgeons	Society of Thoracic Surgeons	Centers for Medicare & Medicaid Services	Centers for Medicare & Medicaid Services
Description	Percentage of procedures for which the patient received Beta Blockers within 24 hours preceding surgery/ Total number of isolated CABG procedures.	Percent of patients undergoing isolated CABG who received beta blockers within 24 hours preceding surgery.	Percentage of patients undergoing CABG with documented pre-operative beta blockade who had a coronary artery bypass graft	Percentage of patients on beta blocker therapy prior to admission who received a beta blocker during the peri- operative period. To be in the denominator, the patient must be on a beta-blocker prior to arrival. The case is excluded if the patient is not on a beta- blocker prior to arrival, as described below in 2a4.
Type of Measure	Process	Process	Process	Process
Numerator	Number of procedures for which the patient received Beta Blockers within 24 hours preceding surgery.	Number of procedures for which the patient received Beta Blockers within 24 hours preceding surgery.	Patients undergoing CABG with documented pre-operative beta blockade. 4115F Beta blocker administered within 24 hours prior to surgical incision	Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the peri- operative period.
Numerator Details		Number of isolated CABG procedures in which preoperative beta blockers [MedBeta (STS Adult Cardiac Surgery Database Version 2.73, Sequence number 1710)] is marked "yes".		Data element: Beta-Blocker Perioperative
Denominator	Total number of isolated CABG	Total number of isolated CABG	Patients with coronary artery	All surgery patients on beta

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Endorsed Measure 0235 : Pre-op beta blocker in patient with isolated CABG (1)	Maintenance Measure 0127: Pre-operative beta blockade	Endorsed Measure 0236: Pre-op beta-blocker in patient with isolated CABG (2)	Maintenance Measure 0284: Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period
procedures.	procedures.	bypass graft. CPT codes: 33510, 33511, 33512, 33513, 33514, 33516, , 33533, 33534, 33535, 33536	 blocker therapy prior to arrival. All surgery patients on daily beta blocker therapy prior to arrival Data Element Data Collection Question: Is there documentation that the patient was on a daily beta-blocker therapy prior to arrival? Yes/No Notes for Abstraction: If there is documentation that the beta-blocker was taken daily at "home" or is a "current" medication, select "Yes". If a beta-blocker is listed as a home medication without designation of how often or when it is taken, select "Yes". If there is documentation that the beta-blocker is a home/current medication and additional documentation indicates the beta-blocker was not taken daily, e.g., the medication reconciliation form lists a beta-blocker as a home/current medication, but documentation in the nurses

	Endorsed Measure 0235: Pre-op	Maintenance Measure 0127:	Endorsed Measure 0236: Pre-op	Maintenance Measure 0284:
	beta blocker in patient with	Pre-operative beta blockade	beta-blocker in patient with	Surgery patients on beta
	isolated CABG (1)	-	isolated CABG (2)	blocker therapy prior to
				admission who received a beta
				blocker during the
				perioperative period
				taking beta-blocker every day",
				select "No".
				• If there is documentation that
				the beta-blocker is on a
				schedule other than daily,
				select "No".
				• If there is documentation that
				the beta-blocker was given on a
				"prn" basis for cardiac or non-
				cardiac reasons, select "No".
Denominator		Female, Male; 18 and older		Female, Male; Patients >/= 18
Categories				years of age
Denominator Details		Number of isolated CABG		Data Elements:
		procedures excluding cases for		Admission Date
		which preoperative beta		Anesthesia Start Date
		blockers were contraindicated.		Beta-Blocker Current
				Medication
		Isolated CABG is determined as		Beta-Blocker During Pregnancy
		a procedure for which all of the		Birthdate
		following apply (note: full		Clinical Trial
		terms for STS field names are		Discharge Date
		provided in brackets []):		ICD-9-CM Principal Procedure
		- OpCAB [Coronary Artery		Code
		Bypass] is marked "Yes"		Laparoscope
		- (VADProc [VAD Implanted or		Perioperative Death
		Removed] is marked "No" or		Reason for Not Administering
		"Missing") or (VADProc is		Beta-Blocker-Perioperative
		marked "Yes, Implanted" and		Sex
		UnplVAD [Unplanned VAD		
		Insertion] is marked "yes")		
		- OCarASDTy [Atrial Septal		
		Defect Repair] is marked		

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE

Endorsed Measure 0235: Pre-op	Maintenance Measure 0127:	Endorsed Measure 0236: Pre-op	Maintenance Measure 0284:
beta blocker in patient with	Pre-operative beta blockade	beta-blocker in patient with	Surgery patients on beta
isolated CABG (1)	1	isolated CABG (2)	blocker therapy prior to
			admission who received a beta
			blocker during the
			perioperative period
	"PFO" or "missing"		
	- OCarAFibAProc [Atrial		
	Fibrillation Ablation Procedure]		
	is marked "primarily		
	epicardial" or "missing" and		
	- OpValve [Valve Surgery],		
	VSAV [Aortic Valve		
	Procedure], VSAVPr [Aortic		
	Valve Procedure Performed],		
	ResectSubA [Resection of sub-		
	aortic stenosis], VSMV [Mitral		
	Valve Procedure], VSMVPr		
	[Mitral Valve Procedure		
	Performed], OpTricus		
	[Tricuspid Valve Procedure		
	Performed], OpPulm [Pulmonic		
	Valve Procedure Performed],		
	OpONCard [Other Non-		
	Cardiac Procedure], OCarLVA		
	[Left Ventricular Aneurysm		
	Repair], OCarVSD [Ventricular		
	Septal Defect Repair], OCarSVR		
	[Surgical Ventricular		
	Restoration], OCarCong		
	[Congenital Defect Repair],		
	OCarTrma [surgical procedure		
	for an injury due to Cardiac		
	Trauma], OCarCrTx [Cardiac		
	Transplant], OCAoProcType		
	[Aortic Procedure Type],		
	EndoProc [Endovascular		
	Procedure (TEVAR)],		

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	Endorsed Measure 0235 : Pre-op beta blocker in patient with isolated CABG (1)	Maintenance Measure 0127: Pre-operative beta blockade	Endorsed Measure 0236: Pre-op beta-blocker in patient with isolated CABG (2)	Maintenance Measure 0284: Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period
		OCTumor [resection of an intracardiac tumor], OCPulThromDis [Pulmonary Thromboembolectomy], OCarOthr [other cardiac procedure] are all marked "no" or "missing"		penoperative penou
Exclusions		Cases are removed from the denominator if preoperative beta blocker was contraindicated.		 Patients less than 18 years of age Patients who have a Length of Stay greater than 120 days Patients enrolled in clinical trials Patients whose ICD-9-CM principal procedure occurred prior to the date of admission Patients who expired during the perioperative period Pregnant patients taking a beta-blocker prior to arrival Patients with a documented Reason for Not Administering Beta-Blocker-Perioperative Patients with Ventriular Assist Devices or Heart Transplantation
Exclusion Details		Procedures with preoperative beta blockers [MedBeta (STS Adult Cardiac Surgery Database Version 2.73, Sequence number 1710)] marked as "Contraindicated"		Data Elements: Beta-Blocker During Pregnancy Clinical Trial Perioperative Death Reason for Not Administering Beta-Blocker-Perioperative

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE

	Endorsed Measure 0235: Pre-op	Maintenance Measure 0127:	Endorsed Measure 0236: Pre-op	Maintenance Measure 0284:
	beta blocker in patient with	Pre-operative beta blockade	beta-blocker in patient with	Surgery patients on beta
	isolated CABG (1)	1	isolated CABG (2)	blocker therapy prior to
				admission who received a beta
				blocker during the
				perioperative period
Risk Adjustment	No risk adjustment necessary	No risk adjustment necessary	No risk adjustment necessary	No risk adjustment necessary
Stratification		N/A	N/A	N/A
Type Score		Rate/proportion	Rate/proportion	Rate/proportion
Algorithm		N/A		Variable Key: Patient Age,
				Surgery Days
				1. Start processing. Run cases
				that are included in the Surgical
				Care Improvement Project
				(SCIP) Initial Patient
				Population and pass the edits
				defined in the Transmission
				Data Processing Flow: Clinical
				through this measure.
				2. Calculate Patient Age. The
				Patient Age, in years, is equal
				to the Admission Date minus
				the Birthdate Use the month
				and day portion of admission
				date and birthdate to vield the
				most accurate age
				2 Chock Patient Ago
				5. Check Fallent Age
				a. If I attent Age is less than 10
				Moosure Category Assignment
				of B and will not have the
				of B and Will not be in the
				Measure Population. Stop
				processing.
				b. If Patient Age is greater than
				or equal to 18 years, continue
				processing and proceed to
				Laparoscope.
				4. Check Laparoscope

Endorsed Measure 0235: Pre-op	Maintenance Measure 0127:	Endorsed Measure 0236: Pre-op	Maintenance Measure 0284:
beta blocker in patient with	Pre-operative beta blockade	beta-blocker in patient with	Surgery patients on beta
isolated CABG (1)		isolated CABG (2)	blocker therapy prior to
× /			admission who received a beta
			blocker during the
			perioperative period
			a. If Laparoscope is missing, the
			case will proceed to a Measure
			Category Assignment of X and
			will be rejected. Stop
			processing.
			b. If Laparoscope equals 1 or 3,
			the case will proceed to a
			Measure Category Assignment
			of B and will not be in the
			Measure Population. Stop
			processing.
			c. If Laparoscope equals 2,
			continue processing and
			proceed to Clinical Trial.
			5.Check Clinical Trial
			a. If Clinical Trial is missing,
			the case will proceed to a
			Measure Category Assignment
			of X and will be rejected. Stop
			processing.
			b. If Clinical Trial equals Yes,
			the case will proceed to a
			Measure Category Assignment
			of B and will not be in the
			Measure Population. Stop
			processing.
			c. If Clinical Trial equals No,
			continue processing and
			proceed to Anesthesia Start
			Date.
			6.Check Anesthesia Start Date
			a. If the Anesthesia Start Date is

Endorsed Measure 0235: Pre-op	Maintenance Measure 0127:	Endorsed Measure 0236: Pre-op	Maintenance Measure 0284:
beta blocker in patient with	Pre-operative beta blockade	beta-blocker in patient with	Surgery patients on beta
isolated CABG (1)		isolated CABG (2)	blocker therapy prior to
			admission who received a beta
			blocker during the
			perioperative period
			missing, the case will proceed
			to a Measure Category
			Assignment of X and will be
			rejected. Stop processing.
			b. If the Anesthesia Start Date
			equals Unable To Determine,
			the case will proceed to a
			Measure Category Assignment
			of D and will be in the Measure
			Population. Stop processing.
			c. If Anesthesia Start Date
			equals a Non Unable To
			Determine Value, continue
			processing and proceed to the
			Surgery Days calculation.
			7. Calculate Surgery Days.
			Surgery Days, in days, is equal
			to the Anesthesia Start Date
			minus the Admission Date.
			8. Check Surgery Days
			a. If the Surgery Days is less
			than zero, the case will proceed
			to a Measure Category
			Assignment of B and will not
			be in the Measure Population.
			Stop processing.
			b. If the Surgery Days is greater
			than or equal to zero, continue
			processing and proceed to
			Perioperative Death.
			9. Check Perioperative Death
			a. If Perioperative Death is

Endorsed Measure 0235: Pre-op	Maintenance Measure 0127:	Endorsed Measure 0236: Pre-op	Maintenance Measure 0284:
beta blocker in patient with	Pre-operative beta blockade	beta-blocker in patient with	Surgery patients on beta
isolated CABG (1)		isolated CABG (2)	blocker therapy prior to
			admission who received a beta
			blocker during the
			perioperative period
			missing, the case will proceed
			to a Measure Category
			Assignment of X and will be
			rejected. Stop processing.
			b. If Perioperative Death equals
			Yes, the case will proceed to a
			Measure Category Assignment
			of B and will not be in the
			Measure Population. Stop
			processing.
			c. If Perioperative Death equals
			No, continue processing and
			proceed to Beta-Blocker
			Current Medication.
			10. Check Beta-Blocker Current
			Medication
			a. If the Beta-Blocker Current
			Medication is missing, the case
			will proceed to a Measure
			Category Assignment of X and
			will be rejected. Stop
			processing.
			b. If the Beta-Blocker Current
			Medication equals No, the case
			will proceed to a Measure
			Category Assignment of B and
			will not be in the Measure
			Population. Stop processing.
			c. If the Beta-Blocker Current
			Medication equals Yes,
			continue processing and
			proceed to Sex.

Endorsed Measure 0235: Pre-op	Maintenance Measure 0127:	Endorsed Measure 0236: Pre-op	Maintenance Measure 0284:
beta blocker in patient with	Pre-operative beta blockade	beta-blocker in patient with	Surgery patients on beta
isolated CABG (1)	-	isolated CABG (2)	blocker therapy prior to
		· · ·	admission who received a beta
			blocker during the
			perioperative period
			11.Check Sex
			a. If Sex is missing, the case will
			proceed to a Measure Category
			Assignment of X and will be
			rejected. Stop processing.
			b. If Sex equals Female,
			continue processing and check
			Beta-Blocker During
			Pregnancy.
			1. If Beta-Blocker During
			Pregnancy is missing, the case
			will proceed to a Measure
			Category Assignment of X and
			will be rejected. Stop
			processing.
			2. If Beta-Blocker During
			Pregnancy equals 1 or 3, the
			case will proceed to a Measure
			Category Assignment of B and
			will not be in the Measure
			Population. Stop processing.
			3. If Beta-Blocker During
			Pregnancy equals 2, continue
			processing and proceed to Beta-
			Blocker Preoperative.
			c. If Sex equals Male or
			Unknown, continue processing
			and proceed to Beta-Blocker
			Perioperative.
			12. Check Beta-Blocker
			Perioperative
			a. If Beta-Blocker Perioperative

Endorsed Measure 0235: Pre-op	Maintenance Measure 0127:	Endorsed Measure 0236: Pre-op	Maintenance Measure 0284:
beta blocker in patient with	Pre-operative beta blockade	beta-blocker in patient with	Surgery patients on beta
isolated CABG (1)	-	isolated CABG (2)	blocker therapy prior to
× /			admission who received a beta
			blocker during the
			perioperative period
			is missing, the case will
			proceed to a Measure Category
			Assignment of X and will be
			rejected. Stop processing.
			b. If Beta-Blocker Perioperative
			equals Yes, the case will
			proceed to a Measure Category
			Assignment of E and will be in
			the Numerator Population.
			Stop processing.
			c. If Beta-Blocker Perioperative
			equals No, continue processing
			and check Reason for Not
			Administering Beta-Blocker
			Perioperative.
			13. Check Reason for Not
			Administering Beta-Blocker
			Perioperative
			a. If Reason for Not
			Administering Beta-Blocker
			Perioperative is missing, the
			case will proceed to a Measure
			Category Assignment of X and
			will be rejected. Stop
			processing.
			b. If Reason for Not
			Administering Beta-Blocker
			Perioperative equals Yes, the
			case will proceed to a Measure
			Category Assignment of B and
			will not be in the Measure
			Population. Stop processing.

	Endorsed Measure 0235: Pre-op	Maintenance Measure 0127:	Endorsed Measure 0236: Pre-op	Maintenance Measure 0284:
	beta blocker in patient with	Pre-operative beta blockade	beta-blocker in patient with	Surgery patients on beta
	isolated CABG (1)		isolated CABG (2)	blocker therapy prior to
				admission who received a beta
				blocker during the
				perioperative period
				c. If Reason for Not
				Administering Beta-Blocker
				Perioperative equals No, the
				case will proceed to a Measure
				Category Assignment of D and
				will be in the Measure
				Population. Stop processing.
Data Source	Registry	Registry	Electronic administrative	Electronic administrative
			data/claims	data/claims; Paper medical
				record/flow sheet
Level of	Clinicians: Individual	Clinicians: Facility/agency	Clinicians: Group, Clinicians:	Facility/agency, Population:
Measurement			Individual, Facility/ Agency,	National, Population: Regional
/Analysis			Population: Community,	
			Population: Counties or cities,	
			Population: National,	
			Population: Regional/ network,	
			Population: States	
Care Settings	Hospital	Hospital	Hospital	Hospital

Cataracts		
	New Candidate Measure 1536: Cataracts:	Endorsed Measure 0565: Cataracts: 20/40 or
	Improvement in patient's visual function within	better visual acuity within 90 days following
	90 days following cataract surgery	cataract surgery
Status	Currently undergoing review	Endorsed 10/2009
Steward	American Academy of Ophthalmology and	American Medical Association-Physician
	Hoskins Center for Quality Eye Care	Consortium for Performance Improvement
Description	Percentage of patients aged 18 years and older	Percentage of patients aged 18 years and older
	who had cataract surgery and had improvement	with a diagnosis of uncomplicated cataract who
	in visual function achieved within 90 days	had cataract surgery and no significant ocular
	following the cataract surgery.	conditions impacting the visual outcome of
		surgery and had best-corrected visual acuity of
		20/40 or better (distance or near) achieved within
		90 days following the cataract surgery.
Type of Measure	Outcome	Outcome
Numerator	Patients 18 years and older in sample who had	Patients who had best-corrected visual acuity of
	improvement in visual function achieved within	20/40 or better (distance or near) achieved within
	90 days following cataract surgery, based on pre-	90 days following cataract surgery.
	operative and post-operative visual function	
	instrument.	
Numerator	Patients 18 years and older in sample who had an	Patients who had best-corrected visual acuity of $20/40$ so had best-co
Details	improvement in their visual function achieved	20/40 or better (distance or hear) achieved within
	Patients in sample who completed a pro-operative	CPT Category II code: 4175E Best corrected visual
	and post-operative visual function instrument	acuity of 20/40 or better (distance or pear)
	and with the CPT Procedure Coses (with or	achieved within the 90 days following cataract
	without modifiers): 66840, 66850, 66852, 66920,	surgery
	66930, 66940, 66982, 66983, 66984	
Denominator	All patients aged 18 years and older in sample	All patients aged 18 years and older who had
	who had cataract surgery.	cataract surgery and no significant pre-operative
		ocular conditions impacting the visual outcome of
		surgery.
Denominator	Female, Male; 18 years and older	
Categories		
Denominator	Denominator (Eligible Population): All patients	All patients aged 18 years and older who had
Details	aged 18 years and older in sample who had	cataract surgery and no significant pre-operative
	• CPT Procedure Codes (with or without	surgery
	modifiers): 66840, 66850, 66852, 66920, 66930	CPT Procedure Codes (with or without
	66940, 66982, 66983, 66984	modifiers): 66840, 66850, 66852, 66920, 66930.
		66940, 66982, 66983, 66984
		AND
		Patients aged 18 years and older
Exclusions		Patients with comorbid conditions that impact the
		visual outcome of surgery (See Denominator
		Exclusions Spreadsheet).
Exclusion		Patients with any of the following comorbid
Details		conditions that impact the visual outcome of
		surgery (See Denominator Exclusions
		Spreadsheet)

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	New Candidate Measure 1536: Cataracts:	Endorsed Measure 0565: Cataracts: 20/40 or
	Improvement in patient's visual function within	better visual acuity within 90 days following
	90 days following cataract surgery	cataract surgery
Risk	No risk adjustment necessary	No risk adjustment necessary
Adjustment		
Stratification	This measure can be stratified into two major	
	groups: those patients with ocular co-morbidities	
	and those patients without ocular co-morbidities.	
	An improvement in visual function after cataract	
	surgery would be expected in both groups,	
	however the magnitude of the difference would	
	vary by group. The Cataract Patient Outcomes	
	Research Team found that an important	
	preoperative patient characteristic that was	
	independently associated with failure to improve	
	on one of the outcomes measured (including the	
	VF-14) was ocular comorbidity. The authors	
	explained that this was expected, because it is	
	reasonable to assume that other diseases that	
	impair visual function would be correlated with a	
	reduced improvement in functional status. The	
	National Eye Care Outcomes Network also found	
	that there were differences in the mean	
	postoperative VF-14 scores across groups of	
	patients with and without ocular co-morbidities,	
	the Beach escaled chart version of the VE 14 else	
	the Rasch-scaled short version of the VF-14 also	
	notion and the preoperative and	
	differences between preenerative and	
	postoperative visual function tests as seen below	
	National Evecare Outcomes Network	
	Mean VF-14 (postoperative)	
	- Total 92.7	
	- With ocular comorbidity 89.9	
	- Without ocular comorbidity 94.6	
	Rasch-Scaled Short Version of the VF-14	
	Patients without Ocular Comorbidity - Preop VF-	
	8R - 68.87	
	Postop VF-8R - 86.22	
	Mean Diff = 17.35	
	Patients with Ocular Comorbidity - Preop VF-8R -	
	67.71	
	Postop VF-8R - 81.58	
	Mean Diff = 13.87	
	A list of codes for comorbidities can be found in	
	the AMA PCPI measure for 20/40 visual acuity	
	after cataract surgery:	
	Acute and subacute iridocyclitis 364.00	
	Acute and subacute iridocyclitis 364.01	
	Acute and subacute iridocyclitis 362.02	

New Candidate Measure 1536: Cataracts:	Endorsed Measure 0565: Cataracts: 20/40 or
Improvement in patient's visual function within	better visual acuity within 90 days following
90 days following cataract surgery	cataract surgery
Acute and subacute iridocyclitis 364.03	
Acute and subacute iridocyclitis 364.04	
Acute and subacute iridocyclitis 364.05	
Amblyopia 368.01	
Amblyopia 368.02	
Amblyopia 368.03	
Burn confined to eye and adnexa 940.0	
Burn confined to eye and adnexa 940.1	
Burn confined to eye and adnexa 940.2	
Burn confined to eye and adnexa 940.3	
Burn confined to eye and adnexa 940.4	
Burn confined to eye and adnexa 940.5	
Burn confined to eye and adnexa 940.9	
Cataract secondary to ocular disorders 366.32	
Cataract secondary to ocular disorders 366.33	
Certain types of iridocyclitis 364.21	
Certain types of iridocyclitis 364.22	
Certain types of iridocyclitis 364.23	
Certain types of iridocyclitis 364.24	
Certain types of iridocyclitis 364.3	
Choroidal degenerations 363.43	
Choroidal detachment 363.72	
Choroidal hemorrhage and rupture 363.61	
Choroidal hemorrhage and rupture 363.62	
Choroidal hemorrhage and rupture 363.63	
Chorioretinal scars 363.30	
Chorioretinal scars 363.31	
Chorioretinal scars 363.32	
Chorioretinal scars 363.33	
Chorioretinal scars 363.35	
Chronic iridocyclitis 364.10	
Chronic iridocyclitis 364.11	
Cloudy cornea 3/1.01	
Cloudy cornea 3/1.02	
Cloudy cornea 371.03	
Corneal adama 271.04	
Corneal edema 371.20	
Corneal edema 371.21	
Corneal edema 371.22	
Corneal edema 371.25	
Corneal edema 371.45	
Corneal events 371.44	
371.00	
Corneal onacity and other disorders of cornea	
271 03	
Corneal onacity and other disorders of cornea	
371 04	
Degenerative disorders of globe 360.20	
Degenerative disorders of globe 560.20	

New Candidate Measure 1536: Cataracts:	Endorsed Measure 0565: Cataracts: 20/40 or
Improvement in patient's visual function within	better visual acuity within 90 days following
90 days following cataract surgery	cataract surgery
Degenerative disorders of globe 360.21	
Degenerative disorders of globe 360.23	
Degenerative disorders of globe 360.24	
Degenerative disorders of globe 360.29	
Degeneration of macula and posterior pole 362.50	
Degeneration of macula and posterior pole 362.51	
Degeneration of macula and posterior pole 362.52	
Degeneration of macula and posterior pole 362.53	
Degeneration of macula and posterior pole 362.54	
Degeneration of macula and posterior pole 362.55	
Degeneration of macula and posterior pole 362.56	
Degeneration of macula and posterior pole 362.57	
Disseminated chorioretinitis and disseminated	
retinochoroiditis 363.10	
Disseminated chorioretinitis and disseminated	
retinochoroiditis 363.11	
Disseminated chorioretinitis and disseminated	
retinochoroiditis 363.12	
Disseminated chorioretinitis and disseminated	
retinochoroiditis 363.13	
Disseminated chorioretinitis and disseminated	
retinochoroiditis 363.14	
Disseminated chorioretinitis and disseminated	
retinochoroiditis 363.15	
Diabetic retinopathy 362.01	
Diabetic retinopathy 362.02	
Diabetic retinopathy 362.03	
Diabetic retinopathy 362.04	
Diabetic retinopathy 362.05	
Diabetic retinopathy 362.06	
Diabetic macular edema 362.07	
Disorders of optic chiasm 377.51	
Disorders of optic chiasm 377.52	
Disorders of optic chiasm 377.53	
Disorders of optic chiasm 377.54	
Disorders of visual cortex 377.75	
Focal chorioretinitis and focal retinochoroiditis	
363.00	
Focal chorioretinitis and focal retinochoroiditis	
363.01	
Focal chorioretinitis and focal retinochoroiditis	
363.03	
Focal chorioretinitis and focal retinochoroiditis	
363.04	
Focal chorioretinitis and focal retinochoroiditis	
363.05	
Focal chorioretinitis and focal retinochoroiditis	
363.06	
Focal chorioretinitis and focal retinochoroiditis	

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New Candidate Measure 1536: Cataracts:	Endorsed Measure 0565: Cataracts: 20/40 or
Improvement in patient's visual function within	better visual acuity within 90 days following
90 days following cataract surgery	cataract surgery
363.07	
Focal chorioretinitis and focal retinochoroiditis	
363.08	
Glaucoma 365.10	
Glaucoma 365.11	
Glaucoma 365.12	
Glaucoma 365.13	
Glaucoma 365.14	
Glaucoma 365.15	
Glaucoma 365.20	
Glaucoma 365.21	
Glaucoma 365.22	
Glaucoma 365.23	
Glaucoma 365.24	
Glaucoma 365.31	
Glaucoma 365.32	
Glaucoma 365.51	
Glaucoma 365.52	
Glaucoma 365.59	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.41	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.42	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.43	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.44	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.60	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.61	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.62	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.63	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.64	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.65	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.81	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.82	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.83	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.89	
Glaucoma associated with congenital anomalies,	
dystrophies, and systemic syndromes 365.9	

N	New Candidate Measure 1536: Cataracts:	Endorsed Measure 0565: Cataracts: 20/40 or
In	mprovement in patient's visual function within	better visual acuity within 90 days following
9	00 days following cataract surgery	cataract surgery
H	Hereditary corneal dystrophies 371.50	
H	Hereditary corneal dystrophies 371.51	
H	Hereditary corneal dystrophies 371.52	
H	Hereditary corneal dystrophies 371.53	
H	Hereditary corneal dystrophies 371.54	
H	Hereditary corneal dystrophies 371.55	
H	Hereditary corneal dystrophies 371.56	
H	Hereditary corneal dystrophies 371.57	
H	Hereditary corneal dystrophies 371.58	
H	Hereditary choroidal dystrophies 363.50	
H	Hereditary choroidal dystrophies 363.51	
H	Hereditary choroidal dystrophies 363.52	
H	Hereditary choroidal dystrophies 363.53	
H	Hereditary choroidal dystrophies 363.54	
H	Hereditary choroidal dystrophies 363.55	
H	Hereditary choroidal dystrophies 363.56	
H	Hereditary choroidal dystrophies 363.57	
H	Hereditary retinal dystrophies 362.70	
H	Hereditary retinal dystrophies 362.71	
H	Hereditary retinal dystrophies 362.72	
H	Hereditary retinal dystrophies 362.73	
H	Hereditary retinal dystrophies 362.74	
H	Hereditary retinal dystrophies 362.75	
H	Hereditary retinal dystrophies 362.76	
H	High myopia 360.20	
H	High myopia 360.21	
I	njury to optic nerve and pathways 950.0	
In	njury to optic nerve and pathways 950.1	
I	njury to optic nerve and pathways 950.2	
I	njury to optic nerve and pathways 950.3	
I	njury to optic nerve and pathways 950.9	
K	Keratitis 370.03	
N	Moderate or severe impairment, better eye,	
p	profound impairment lesser eye 369.10	
N	Moderate or severe impairment, better eye,	
p	profound impairment lesser eye 369.11	
N	Moderate or severe impairment, better eye,	
p	profound impairment lesser eye 369.12	
Ν	Moderate or severe impairment, better eye,	
p	profound impairment lesser eye 369.13	
N	Moderate or severe impairment, better eye,	
p	profound impairment lesser eye 369.14	
N	Moderate or severe impairment, better eye,	
p	profound impairment lesser eye 369.15	
N	Moderate or severe impairment, better eye,	
p	profound impairment lesser eye 369.16	
N	Moderate or severe impairment, better eye,	
p	profound impairment lesser eye 369.17	
N	Moderate or severe impairment, better eye,	

New Candidate Measure 1536: Cataracts:	Endorsed Measure 0565: Cataracts: 20/40 or
Improvement in patient's visual function within	better visual acuity within 90 days following
90 days following cataract surgery	cataract surgery
profound impairment lesser eye 369.18	
Nystagmus and iother irregular eye movements	
379.51	
Open wound of eyeball 871.0	
Open wound of eyeball 871.1	
Open wound of eyeball 871.2	
Open wound of eyeball 871.3	
Open wound of eyeball 871.4	
Open wound of eyeball 871.5	
Open wound of eyeball 871.6	
Open wound of eyeball 871.7	
Open wound of eyeball 871.9	
Optic atrophy 377.10	
Optic atrophy 377.11	
Optic atrophy 377.12	
Optic atrophy 377.13	
Optic atrophy 377.14	
Optic atrophy 377.15	
Optic atrophy 377.16	
Optic neuritis 377.30	
Optic neuritis 377.31	
Optic neuritis 377.32	
Optic neuritis 377.33	
Optic neuritis 377.34	
Optic neuritis 377.39	
Other background retinopathy and retinal	
vascular changes 362.12	
Other background retinopathy and retinal	
vascular changes 362.16	
Other background retinopathy and retinal	
vascular changes 362.18	
Other corneal deformities 371.70	
Other corneal deformities 371.71	
Other corneal deformities 371.72	
Other corneal deformities 371.73	
Other disorders of optic nerve 377.41	
Other disorders of sclera 379.11	
Other disorders of sclera 379.12	
Other endophthalmitis 360.11	
Other endophthalmitis 360.12	
Other endophthalmitis 360.13	
Other endophthalmitis 360.14	
Other endophthalmitis 360.19	
Other retinal disorders 362.81	
Other retinal disorders 362.82	
Other retinal disorders 362.83	
Other retinal disorders 362.84	
Other retinal disorders 362.85	
Other retinal disorders 362.89	

New Candidate Measure 1536: Cataracts:	Endorsed Measure 0565: Cataracts: 20/40 or
Improvement in patient's visual function within	better visual acuity within 90 days following
90 days following cataract surgery	cataract surgery
Other and unspecified forms of chorioretinitis and	
retinochoroiditis 363.20	
Other and unspecified forms of chorioretinitis and	
retinochoroiditis 363.21	
Other and unspecified forms of chorioretinitis and	
retinochoroiditis 363.22	
Prior penetrating keratoplasty 371.60	
Prior penetrating keratoplasty 371.61	
Prior penetrating keratoplasty 371.62	
Profound impairment, both eyes 369.00	
Profound impairment, both eyes 369.01	
Profound impairment, both eyes 369.02	
Profound impairment, both eyes 369.03	
Profound impairment, both eyes 369.04	
Profound impairment, both eyes 369.05	
Profound impairment, both eyes 369.06	
Profound impairment, both eyes 369.07	
Profound impairment, both eyes 369.08	
Purulent endophthalmitis 360.00	
Purulent endophthalmitis 360.01	
Purulent endophthalmitis 360.02	
Purulent endophthalmitis 360.03	
Purulent endophthalmitis 360.04	
Retinal detachment with retinal defect 361.00	
Retinal detachment with retinal defect 361.01	
Retinal detachment with retinal defect 361.02	
Retinal detachment with retinal defect 361.03	
Retinal detachment with retinal defect 361.04	
Retinal detachment with retinal defect 361.05	
Retinal detachment with retinal defect 361.06	
Retinal detachment with retinal defect 361.07	
Retinal vascular occlusion 362.31	
Retinal vascular occlusion 362.32	
Retinal vascular occlusion 362.35	
Retinal vascular occlusion 362.36	
Retinopathy of prematurity 362.21	
Scleritis and episcleritis 379.04	
Scleritis and episcleritis 379.05	
Scleritis and episcleritis 379.06	
Scleritis and episcleritis 379.07	
Scleritis and episcleritis 379.09	
Separation of retinal layers 362.41	
Separation of retinal layers 362.42	
Separation of retinal layers 362.43	
Uveitis 360.11	
Uveitis 360.12	
Visual field defects 368.41	
References:	
1. Schein OD, Steinberg EP, Cassard SD et al.	

	New Candidate Measure 1536: Cataracts:	Endorsed Measure 0565: Cataracts: 20/40 or		
	Improvement in patient's visual function within	better visual acuity within 90 days following		
	90 days following cataract surgery	cataract surgery		
	Predictors of outcome in patients who underwent			
	cataract surgery. Ophthalmology 1995; 102:817-23.			
	2. Lum F, Schachat AP, Jampel HD. The			
	development and demise of a cataract surgery			
	database. Jt Comm J Qual Improv. 2002			
	Mar;28(3):108-14.			
	3. Gothwal VK, Wright TA, Lamoureux EL,			
	Pesudovs K. Measuring outcomes of cataract			
	surgery using the Visual Function Index-14. J			
	Cataract Refract Surg 2010; 36:1181-8.			
Type Score	Rate/proportion			
Algorithm	Calculation for Reporting: The calculation of the			
	measure would be determination of the number			
	of patients in the sample who demonstrated			
	improvement in visual function based on the pre-			
	operative and post-operative visual function			
	instrument over the number of patients in the			
	sample who had cataract surgery.			
Data Source	Survey: Patient	Electronic administrative data/claims, electronic		
		health/medical record, paper medical		
		record/flow-sheet		
Level of	Clinicians: Individual	Clinicians: Individual, group		
Measurement				
/Analysis				
Care Settings	Ambulatory care: Ambulatory surgery center,	Ambulatory care: Clinic		
	clinic/urgent care, clinician office			
Failure to Rescue				
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	Maintenance Measure 0351:	Maintenance Measure 0352:	Maintenance Measure 0353:	
	Death among surgical	Failure to rescue in-hospital	Failure to rescue 30-day	
	inpatients with serious,	mortality (risk adjusted)	mortality (risk adjusted)	
	treatable complications (PSI 4)			
Status	Currently undergoing review	Currently undergoing review	Currently undergoing review	
Steward	Agency for Healthcare	Children's Hospital of	Children's Hospital of	
	Research and Quality	Philadelphia	Philadelphia	
Description	Percentage of cases having	Percentage of patients who	Percentage of patients who died	
	developed specified	died with a complication in the	with a complication within 30	
	complications of care with an	hospital.	days from admission.	
	in-hospital death.	-		
Type of	Outcome	Outcome	Outcome	
Measure	A 11 14 1 4.1			
Numerator	All discharges with a	Patients who died with a	Patients who died with a	
	disposition of "deceased"	complication plus patients who	complication plus patients who	
	(DISP=20) among cases	died without documented	died without documented	
	meeting the inclusion and	complications. Death is defined	complications. Death is defined	
	exclusion rules for the	as death in the hospital. All	as death within 30 days from	
	denominator.	patients in an FTR analysis	admission. All patients in an	
		have developed a complication	FIR analysis have developed a	
		(by definition). Complicated	complication (by definition).	
		patient has at least one of the	Complicated patient has at least	
		complications defined in	one of the complications defined	
		Appendix B (see website	in Appendix B (see website	
		http://www.research.chop.ed	http://www.research.chop.edu	
		u/programs/cor/outcomes.ph	/ programs/ cor/ outcomes.php).	
		p). Complications are defined	Complications are defined using	
		diagnosis and procedure codes	and procedure codes and the	
		and the DPC and of the	DRC and a of the surrout	
		and the DKG code of the	admission	
		Comorbidition are defined in	Comorbidition are defined in	
		Appendix C (see website	Appendix C (see website	
		http://www.rosoarch.chop.od	http://www.rosoarch.chop.edu	
		11/programs/cor/outcomes.ph	/programs/cor/outcomes.php)	
		n) using secondary ICD9	using secondary ICD9 diagnosis	
		diagnosis codes of the current	codes of the current admission	
		admission and primary or	and primary or secondary ICD9	
		secondary ICD9 diagnosis	diagnosis codes of previous	
		codes of previous admission	admission within 90 days of the	
		within 90 days of the admission	admission date of the current	
		date of the current admission	admission *When physician	
		*When physician part B is	part B is available the definition	
		available, the definition of	of complications and	
		complications and	comorbidities are augmented to	
		comorbidities are augmented	include CPT codes	
		to include CPT codes.		

	Maintenance Measure 0351:	Maintenance Measure 0352:	Maintenance Measure 0353:
	Death among surgical	Failure to rescue in-hospital	Failure to rescue 30-day
	inpatients with serious,	mortality (risk adjusted)	mortality (risk adjusted)
	treatable complications (PSI 4)		
Numerator	All discharges with a	Patients who died with	Patients who died with
Details	disposition of "deceased"	complication and patients who	complication and patients who
	(DISP=20) among cases	died without documented	died without documented
	meeting the inclusion and	complications. Death is defined	complications. Death is defined
	exclusion rules for the	as death in the hospital.	as death within 30 days from
	denominator.		admission.
Denominator	All surgical discharges age 18	General Surgery, Orthopedic	General Surgery, Orthopedic
	years and older or MDC 14	and vascular patients in	DPCs with complications plus
	(pregnancy, childbirth, and	specific DRGs with	DRGs with complications plus
	specific DRCs or MS-DRCs and	who died in the bosnital	without complications
	an ICD-9-CM code for an	without complications	Inclusions: adult patients
	operating room procedure	without complications.	admitted for one of the
	principal procedure within 2	Inclusions: adult patients	procedures in the General
	days of admission OR	admitted for one of the	Surgery, Orthopedic or Vascular
	admission type of elective	procedures in the General	DRGs (see appendix A
	(ATYPE=3) with potential	Surgery, Orthopedic or	http://www.research.chop.edu
	complications of care listed in	Vascular DRGs (see appendix	/programs/cor/outcomes.php)
	Death among Surgical	А	Inclusions: adult patients
	definition (e.g., pneumonia,	http://www.research.chop.ed	admitted for one of the
	DVT/PE, sepsis, shock/cardiac	u/programs/cor/outcomes.ph	procedures in the General
	arrest, or GI hemorrhage/acute	p)	Surgery, Orthopedic or Vascular
	ulcer).		DRGs (see appendix A)
Denominator	Female; 18 and older	Female, Male; 18-90	Female, Male; 18-90
Categories			
Denominator	All surgical discharges age 18	Adult patients admitted for one	Adult patients admitted for one
Details	(programate childbirth and	Conoral Surgary, Orthopodic or	Surgery Orthopodic or Vascular
	puerperium) defined by	Vascular DRCs (see Appendix	DRCs (see Appendix A
	specific DRGs or MS-DRGs and	A	http://www.research.chop.edu
	an ICD-9-CM code for an	http://www.research.chop.ed	/programs/cor/outcomes.php)
	operating room procedure.	u/programs/cor/outcomes.ph	who developed an in hospital
	principal procedure within 2	p)who developed an in hospital	complication and those who
	days of admission OR	complication and those who	died without a complication.
	admission type of elective	died without a complication.	1
	(ATYPE=3) with potential	-	
	complications of care listed in		
	Death among Surgical		
	definition (pneumonia,		
	DVT/PE, sepsis, shock/cardiac		
	arrest, or GI hemorrhage/acute		
	ulcer).		
	Can Dationt Cafair Indiana		
	See Patient Safety Indicators		
	• Appendix A - Operating		
	Room Procedure Codes		
	Appendix D – Surgical		
	I IPPCIAL DUISICAL		

	Maintenance Measure 0351:	Maintenance Measure 0352:	Maintenance Measure 0353:
	Death among surgical	Failure to rescue in-hospital	Failure to rescue 30-day
	inpatients with serious.	mortality (risk adjusted)	mortality (risk adjusted)
	treatable complications (PSI 4)		
	Discharge DRGs		
	• Appendix E – Surgical		
	Discharge MS-DRGs		
	PSI appendices at:		
	http://www.qualityindicators.		
	ahrq.gov/downloads/psi/Tec		
	hSpecs42/PSI%20Appendices.		
	pdf		
Exclusions	Exclude cases:	Patients over age 90, under age	Patients over age 90, under age
	• age 90 years and older	18.	18.
	• transferred to an acute care		
	facility (DISP = 2)		
	• missing discharge disposition		
	(DISP=missing), gender		
	(SEX=missing), age		
	(AGE=missing), quarter		
	(DQTR=missing), year		
	(YEAR=missing) or principal		
	diagnosis (DX1 =missing)		
	NOTE: Additional exclusion		
	criteria is specific to each		
	diagnosis (pneumonia,		
	DVT/PE, sepsis, shock/cardiac		
	arrest, or GI hemorrhage/acute		
	ulcer).		
Exclusion	Exclude cases:		
Details	 age 90 years and older 		
	 transferred to an acute care 		
	facility (DISP = 2)		
	• missing discharge disposition		
	(DISP=missing), gender		
	(SEX=missing), age		
	(AGE=missing), quarter		
	(DQTR=missing), year		
	(YEAR=missing) or principal		
	diagnosis (DXI =missing)		
	NOTE: Additional exclusion		
	criteria is specific to each		
	diagnosis (pneumonia,		
	DVT/PE, sepsis, shock/cardiac		
	arrest, or GI hemorrhage/acute		
	ulcer).		
Risk	Risk adjustment method	Risk Adjustment: Model was	Risk Adjustment: Model was
Adjustment	widely or commercially	developed using logistic	developed using logistic
	available. The predicted value	regression analysis. Associated	regression analysis. Associated
	for each case is computed using	data elements: age in years, sex,	data elements: age in years, sex,

	Maintenance Measure 0351:	Maintenance Measure 0352:	Maintenance Measure 0353:
	Death among surgical	Failure to rescue in-hospital	Failure to rescue 30-day
	inpatients with serious,	mortality (risk adjusted)	mortality (risk adjusted)
	treatable complications (PSI 4)		
	a hierarchical model (logistic	race, comorbidities, DRGs	race, comorbidities, DRGs
	regression with hospital	(combined with and without	(combined with and without
	random effect) and covariates	complications) and procedure	complications) and procedure
	for gender, age in years (in 5-	codes within DRGs, transfer	codes within DRGs, transfer
	year age groups), modified	status. Failure to rescue is	status. Failure to rescue is
	CMS DRG and AHRQ	adjusted using a logistic	adjusted using a logistic
	Comorbidities. The reference	regression model where y is a	regression model where y is a
	population used in the model is	failure and the total N is	failure and the total N is
	the universe of discharges for	composed of patients who	composed of patients who
	states that participate in the	develop a complication and	develop a complication and
	HCUP State Inpatient	patients who died without a	patients who died without a
	Databases (SID) for the year	complication. According to	complication.
	database consisting of 42 states	adjustment variables can very	model adjustment variables can
	and approximately 30 million	We have found that FTR results	wary We have found that FTR
	adult discharges. The expected	are fairly stable even with little	results are fairly stable even
	rate is computed as the sum of	adjustment, since all patients in	with little adjustment, since all
	the predicted value for each	an FTR analysis have	patients in an FTR analysis have
	case divided by the number of	developed a complication (by	developed a complication (by
	cases for the unit of analysis of	definition), they are a more	definition), they are a more
	interest (i.e., hospital, state, and	homogeneous group of patients	homogeneous group of patients
	region). The risk adjusted rate	than the entire population.	than the entire population.
	is computed using indirect	Hence severity adjustment	Hence severity adjustment plays
	standardization as the	plays somewhat less of a role	somewhat less of a role than in
	observed rate divided by the	than in other outcome	other outcome measures.
	expected rate, multiplied by the	measures.	
	reference population rate.		
Stratification	User has an option to stratify	Complicated patient has at	Complicated patient has at least
	by Gender, age (5-year age	least one of the complications	one of the complications defined
	groups), race / ethnicity,	defined in Appendix B	in Appendix B
	primary payer, and custom	(http://www.research.chop.ed	(http://www.research.chop.edu
	stratifiers.	u/programs/cor/outcomes.ph	/programs/cor/outcomes.php)
		p) Complications are defined	Complications are defined using
		diagnosis and procedure codes	and procedure codes and the
		and the DRC code of the	DRC code of the current
		current admission When	admission When Physician Part
		Physician Part B file is	B file is available the definition
		available, the definition of	of complications and
		complications and	comorbidities are augmented to
		comorbidities are augmented	include CPT codes.
		to include CPT codes.	
Type Score	Rate/proportion	Rate/proportion	Rate/proportion
Algorithm	Each indicator is expressed as a	Refer to website	Refer to website
	rate, is defined as outcome of	(http://www.research.chop.ed	(http://www.research.chop.edu
	interest / population at risk or	u/programs/cor/outcomes.ph	/programs/cor/outcomes.php)
	numerator / denominator. The	p)	
	AHRO Ouality Indicators		

	Maintenance Measure 0351:	Maintenance Measure 0352:	Maintenance Measure 0353:
	Death among surgical	Failure to rescue in-hospital	Failure to rescue 30-day
	inpatients with serious,	mortality (risk adjusted)	mortality (risk adjusted)
	treatable complications (PSI 4)		
	(AHRQ QI) software performs		
	five steps to produce the rates.		
	1) Discharge-level data is used		
	to mark inpatient records		
	containing the outcome of		
	interest and 2) the population		
	at risk. For provider indicators,		
	the population at risk is also		
	derived from hospital		
	discharge records; for area		
	indicators, the population at		
	risk is derived from U.S.		
	Census data. 3) Calculate		
	observed rates. Using output		
	from steps 1 and 2, rates are		
	calculated for user-specified		
	combinations of stratifiers. 4)		
	Calculate expected rates.		
	Regression coefficients from a		
	reference population database		
	are applied to the discharge		
	records and aggregated to the		
	provider or area level. 5)		
	Calculate risk-adjusted rate.		
	Use the indirect		
	standardization to account for		
	case-mix. 6) Calculate		
	smoothed rate. A Univariate		
	shrinkage factor is applied to		
	the risk-adjusted rates. The		
	shrinkage estimate reflects a		
	reliability adjustment unique to		
	each indicator. Full information		
	specifications can be found at		
	bttp://gualityindicators abra g		
	ov/PSI download htm		
Data Source	Electronic administrative	Electronic administrative	Electronic administrative
	data/claims	data/claims	data/claims
Level of	Facility/agency	Facility/agency; Health plan:	Facility/agency; Health plan:
Measurement	57 67 -5	Integrate delivery system;	Integrate delivery system;
/Analysis		Population: National,	Population: National,
		regional/network, states,	regional/network, states,
		counties or cities	counties or cities
Care Settings	Hospital	Hospital	Hospital
	· •	• •	· -

Status Steward Description	Maintenance Measure 0365: Pancreatic resection mortality rate (IQI 9) Currently undergoing review Agency for Healthcare Research and Quality Percentage of adult hospital discharges with procedure code of pancreatic resection with an in-hospital death, stratified by benign and malignant disease.	Maintenance Measure 0366: Pancreatic resection volume (IQI 2) Currently undergoing review Agency for Healthcare Research and Quality Number of adult hospital discharges with procedure for pancreatic resection, stratified by benign and malignant disease.	Endorsed Measure 0738: Survival predictor for pancreatic resection surgery Endorsed 9/2010 Leapfrog Group A reliability adjusted measure of pancreatic resection surgical performance that optimally combines two important domains: Pancreatic resection hospital volume and pancreatic operative mortality, to provide predictions on hospital pancreatic survival rates in patients age 18 and over.
Type of Measure	Outcome	Structure	Outcome
Numerator	Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator. Time window: Time window can be determined by user, but is generally a calendar year.	Hospital discharges, age 18 years and older, with ICD-9-CM codes for pancreatic resection procedure, stratified by benign and malignant disease. Time window: Time window can be determined by user, but is generally a calendar year.	Survival of pancreatic cancer patients age 18 and over who undergo a pancreatic resection. Time window: During the hospital admission
Numerator Details	Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.	Discharges, age 18 years and older, with ICD-9-CM codes for pancreatic resection procedure. ICD-9-CM pancreatic resection procedure codes: 526 TOTAL PANCREATECTOMY 527 RAD PANCREATICODUODENECT5 2.5 Partial pancreatectomy 52.51 Proximal pancreatectomy 52.52 Distal pancreatectomy 52.53 Radical subtotal pancreatectomy 52.59 Other partial pancreatectomy	For the observed mortality, the hospital submits the observed deaths for pancreatic resection cases in patients with pancreatic cancer as identified using the population codes.

Pancreatic Resection

	Maintenance Measure 0365:	Maintenance Measure 0366:	Endorsed Measure 0738:
	Pancreatic resection mortality	Pancreatic resection volume (IQI	Survival predictor for pancreatic
	rate (IQI 9)	2)	resection surgery
		Exclude cases:	
		• MDC 14 (pregnancy,	
Deneminator		childbirth, and puerperium)	
Denominator	Hospital discharges, age 18 years and older, with ICD-9- CM pancreatic resection code procedure and a diagnosis code of pancreatic cancer in any field, stratified by benign and malignant disease. Time window: Time window	N/A	All hospital patients age 18 and over with pancreatic cancer who had a pancreatic resection. Time Window : 12 months
	can be determined by user,		
	but is generally a calendar		
Donominator	year.	Econolo Malor 19 and older	
Categories	Female, Male; 18 and older	Female, Male; 18 and older	
Denominator	Discharges, age 18 years and	N/A	For the volume predicted
Details	older, with ICD-9-CM pancreatic resection code procedure and a diagnosis code for pancreatic cancer in any field. ICD-9-CM pancreatic resection procedure codes: 526 TOTAL PANCREATECTOMY 527 RAD PANCREATICODUODENEC T		For the volume predicted mortality, hospitals count the number of all pancreatic resection cases using the following codes. ICD-9-CM Procedure Codes for Pancreatectomy Any pancreaticoduodenectomy: 5251 Proximal Pancreatectomy 5253 Radical Subtot Pancreatectomy 526 Total Pancreatectomy 527 Radical Pancreatectomy For the observed mortality, the hospital counts the number of pancreatic resection cases that also have a pancreatic cancer diagnosis using the following codes
			ICD-9-CM Codes for pancreatic cancer 1521 MALIGNANT NEOPL JEJUNUM 1522 MALIGNANT NEOPLASM ILEUM 1523 MAL NEO MECKEL'S DIVERT 1528 MAL NEO SMALL BOWEL NEC

	Maintenance Measure 0365:	Maintenance Measure 0366:	Endorsed Measure 0738:
	Pancreatic resection mortality	Pancreatic resection volume (IQI	Survival predictor for pancreatic
	rate (IQI 9)	2)	resection surgery
	rate (IQI 9)		resection surgery 1529 MAL NEO SMALL BOWEL NOS 1560 MALIG NEO GALLBLADDER 1561 MAL NEO EXTRAHEPAT DUCTS 1562 MAL NEO EXTRAHEPAT 1568 MALIG NEO BILIARY NEC 1569 MALIG NEO BILIARY NOS 1570 MAL NEO PANCREAS HEAD 1571 MAL NEO PANCREAS BODY 1572 MAL NEO PANCREAS TAIL 1573 MAL NEO PANCREATIC DUCT 1574 MAL NEO ISLET LANGERHANS 1578 MALIG NEO PANCREAS NEC 1579 MALIG NEO PANCREAS
Exclusions	Exclude cases: • missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), quarter (YEAR=missing) or principal diagnosis (DX1 =missing) • transferring to another short-term hospital (DISP=2) • MDC 14 (pregnancy, childbirth, and puerperium) ICD-9-CM codes: 577.0 Acute pancreatitis 577.1 Chronic pancreatitis	N/A	NOS Patients who do not have a diagnosis of pancreatic cancer
Exclusion Details	Exclude cases: • missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year	N/A	Pancreatectomy cases without a pancreatic cancer diagnosis code.

	Maintenance Measure 0365:	Maintenance Measure 0366:	Endorsed Measure 0738:
	Pancreatic resection mortality	Pancreatic resection volume (IQI	Survival predictor for pancreatic
	rate (IQI 9)	2)	resection surgery
	(YEAR=missing) or principal		
	diagnosis (DX1 = missing)		
	• transferring to another		
	short-term hospital (DISP=2)		
	• MDC 14 (pregnancy,		
	childbirth, and puerperium)		
	ICD-9-CM codes:		
	577.0 Acute pancreatitis		
	577.1 Chronic pancreatitis		
Risk	Risk adjustment method	No risk adjustment necessary.	We used an empirical Bayes
Adjustment	widely or commercially	,	approach to combine mortality
,	available. The predicted value		rates with information on
	for each case is computed		hospital volume at each
	using a hierarchical model		hospital. In traditional empirical
	(logistic regression with		Bayes methods, a point estimate
	hospital random effect) and		(e.g., mortality rate observed at
	covariates for gender, age in		a hospital) is adjusted for
	years (in 5-year age groups),		reliability by shrinking it
	All Patient Refined-Diagnosis		towards the overall mean (e.g.,
	Related Group (APR-DRG)		overall mortality rate in the
	and APR-DRG risk-of-		population). We modified this
	mortality subclass. The		traditional approach by
	reference population used in		shrinking the observed
	the model is the universe of		mortality rate back toward the
	discharges for states that		mortality rate expected given
	participate in the HCUP State		the volume at that hospital – we
	Inpatient Databases (SID) for		refer to this as the "volume-
	the year 2007 (updated		predicted mortality". With this
	annually), a database		approach, the observed
	consisting of 43 states and		mortality rate is weighted
	approximately 30 million		according to how reliably it is
	adult discharges. The		estimated, with the remaining
	expected rate is computed as		weight placed on the
	the sum of the predicted		information regarding hospital
	value for each case divided by		volume [volume-predicted
	the number of cases for the		mortality].
	unit of analysis of interest		
	(i.e., hospital, state, and		Risk adjustment for patient
	region). The risk adjusted rate		characteristics is not used
	is computed using indirect		because in sensitivity analysis,
	standardization as the		composite measures based on an
	observed rate divided by the		unadjusted mortality input and
	expected rate, multiplied by		a risk-adjusted mortality input
	the reference population rate.		had a correlation of (.95) and
			thus were equally good at
			predicting tuture performance.
			The formula (an arts 1 cf. cf.
			survival predictor has two

	Maintenance Measure 0365: Pancreatic resection mortality	Maintenance Measure 0366: Pancreatic resection volume (IQI	Endorsed Measure 0738: Survival predictor for pancreatic
	rate (IQI 9)	2)	resection surgery
			predicted mortality rate, and the second is an observed mortality rate.
			The volume predicted mortality rate reflects the hospitals experience performing pancreatic resection surgeries (thus, it includes all pancreatic resection surgeries) and uses mortality for all hospitals at that specific volume to create the volume predicted mortality. The input data from the hospitals for this domain is a volume count of all pancreatic resections performed in the hospital.
			The second domain is the observed mortality, for this domain the population is narrowed to a homogenous group of pancreatic resections with a diagnosis of cancer, the data needed for this domain is the number of observed deaths occurring for pancreatic resection cases with cancer, within the inpatient setting.
			The general composite measure calculation is as follows: Predicted Survival = 1-Predicted Mortality
			Predicted Mortality = (weight)*(mortality) + (1- weight)*(volume predicted mortality)
			Volume predicted mortality* = intercept - coefficient*ln(caseload), where the intercepts and coefficients are derived from regression using the NIS data and the caseload comes from the Leapfrog Hospital Survey

	Maintenance Measure 0365:	Maintenance Measure 0366:	Endorsed Measure 0738:
	Pancreatic resection mortality	Pancreatic resection volume (IQI	Survival predictor for pancreatic
	rate (IQI 9)	2)	resection surgery
			(answer to question #1 for each high-risk procedure). *Any negative values are reset to "0"
			Weight = mortality signal/(mortality signal + [mortality sigma/caseload]), where mortality signal and sigma are derived from the NIS data and the caseload comes from the Leapfrog Hospital Survey (answer to question #1 for each high-risk procedure).
			Method: We used an empirical Bayes approach to combine mortality rates with information on hospital volume at each hospital. In traditional empirical Bayes methods, a point estimate (e.g., mortality rate observed at a hospital) is adjusted for reliability by shrinking it towards the overall mean (e.g., overall mortality rate in the population). We modified this traditional approach by shrinking the observed mortality rate expected given the volume at that hospital – we refer to this as the "volume- predicted mortality". With this approach, the observed mortality rate is weighted
			according to how reliably it is estimated, with the remaining weight placed on the information regarding hospital volume [volume-predicted mortality].
			Risk adjustment for patient characteristics is not used because in sensitivity analysis, composite measures based on an unadjusted mortality input and a risk-adjusted mortality input

Maintenance Measure 0365: Pancreatic resection mortality rate (IQI 9)	Maintenance Measure 0366: Pancreatic resection volume (IQI 2)	Endorsed Measure 0738: Survival predictor for pancreatic resection surgery
		had a correlation of (.95) and thus were equally good at predicting future performance.
		The formula for calculating the survival predictor has two components, one is a volume predicted mortality rate, and the second is an observed mortality rate.
		The volume predicted mortality rate reflects the hospitals experience performing pancreatic resection surgeries (thus, it includes all pancreatic resection surgeries) and uses mortality for all hospitals at that specific volume to create the volume predicted mortality. The input data from the hospitals for this domain is a volume count of all pancreatic resections performed in the hospital.
		The second domain is the observed mortality, for this domain the population is narrowed to a homogenous group of pancreatic resections with a diagnosis of cancer, the data needed for this domain is the number of observed deaths occurring for pancreatic resection cases with cancer, within the inpatient setting.
		The general composite measure calculation is as follows: Predicted Survival = 1-Predicted Mortality
		Predicted Mortality = (weight)*(mortality) + (1- weight)*(volume predicted mortality)
		Volume predicted mortality* = intercept -

	Maintenance Measure 0365: Pancreatic resection mortality	Maintenance Measure 0366:	Endorsed Measure 0738: Survival predictor for pancreatic
	rate (IQI 9)	2)	resection surgery
			coefficient*ln(caseload), where the intercepts and coefficients are derived from regression using the NIS data and the caseload comes from the Leapfrog Hospital Survey (answer to question #1 for each high-risk procedure). *Any negative values are reset to "0"
			Weight = mortality signal/(mortality signal + [mortality sigma/caseload]), where mortality signal and sigma are derived from the NIS data and the caseload comes from the Leapfrog Hospital Survey (answer to question #1 for each high-risk procedure).
Stratification	User has the option to stratify by gender, age (5-year age groups), race / ethnicity, primary payer, and custom stratifiers. Malignant Disease: ICD-9-CM pancreatic cancer diagnosis codes: 1520 MALIGNANT NEOPL DUODENUM 1561 MAL NEO EXTRAHEPAT DUCTS 1562 MAL NEO AMPULLA OF VATER 1570 MAL NEO PANCREAS HEAD 1571 MAL NEO PANCREAS BODY 1572 MAL NEO PANCREAS TAIL 1573 MAL NEO PANCREAS TAIL 1573 MAL NEO PANCREATIC DUCT 1574	Malignant Disease: ICD-9-CM pancreatic cancer diagnosis codes: 1520 MALIGNANT NEOPL DUODENUM 1561 MAL NEO EXTRAHEPAT DUCTS 1562 MAL NEO AMPULLA OF VATER 1570 MAL NEO PANCREAS HEAD 1571 MAL NEO PANCREAS HEAD 1572 MAL NEO PANCREAS BODY 1572 MAL NEO PANCREAS TAIL 1573 MAL NEO PANCREAS TAIL 1574 MAL NEO ISLET LANGERHANS 1578 MALIG NEO PANCREAS NEC 1579 MALIG NEO PANCREAS NEC 1579 MALIG NEO PANCREAS NOS Benign Disease: All other cases	

	Maintenance Measure 0365:	Maintenance Measure 0366:	Endorsed Measure 0738:
	Pancreatic resection mortality	Pancreatic resection volume (IQI	Survival predictor for pancreatic
	rate (IQI 9)	2)	resection surgery
	MAL NEO ISLET		
	LANGERHANS		
	MALIC NEO PANCREAS		
	NEC		
	1579		
	MALIG NEO PANCREAS		
	NOS		
	Benign Disease:		
	All other cases		
Type Score	Rate/proportion	Count	
Algorithm	Each indicator is expressed as	The volume is the number of	
	a rate, is defined as outcome	discharges with a procedure for	
	of interest / population at risk	pancreatic resection.	
	or numerator / denominator.		
	The AHRQ Quality Indicators		
	(AHRQ QI) software		
	performs live steps to		
	Discharge level data is used		
	to mark inpatient records		
	containing the outcome of		
	interest and 2) the population		
	at risk. For provider		
	indicators, the population at		
	risk is also derived from		
	hospital discharge records; for		
	area indicators, the		
	population at risk is derived		
	from U.S. Census data. 3)		
	Calculate observed rates.		
	Using output from steps 1		
	and 2, rates are calculated for		
	of stratificare 4) Colordations		
	or stratiliers. 4) Calculate		
	coefficients from a reference		
	population database are		
	applied to the discharge		
	records and aggregated to the		
	provider or area level. 5)		
	Calculate risk-adjusted rate.		
	Use the indirect		
	standardization to account for		
	case-mix. 6) Calculate		
	smoothed rate. A Univariate		
	shrinkage factor is applied to		
	the risk-adjusted rates. The		
	shrinkage estimate reflects a		

		~ ~	
	Maintenance Measure 0365:	Maintenance Measure 0366:	Endorsed Measure 0738:
	Pancreatic resection mortality	Pancreatic resection volume (IQI	Survival predictor for pancreatic
	rate (IQI 9)	2)	resection surgery
	reliability adjustment unique to each indicator. Full information on calculation algorithms and specifications can be found at http://qualityindicators.ahrq. gov/IQI_download.htm		
Data Source	Administrative claims	Administrative claims	Electronic administrative data/claims
Level of	Facility	Facility/agency	Facility/agency
Measurement	-		
/Analysis			
Care Settings	Hospital/Acute Care Facility	Hospital/Acute Care Facility	Hospital
Clinical Services	Physicians (MD/DO)	Physicians (MD/DO)	

Prophylactic A	Antibiotics: Discontinued			
	Endorsed Measure 0637: Discontinuation of prophylactic antibiotics (cardiac procedures)	Maintenance Measure 0128: Duration of antibiotic prophylaxis for cardiac surgery patients	Maintenance Measure 0529: Prophylactic antibiotics discontinued within 24 hours after surgery end time	Endorsed Measure 0271: Discontinuation of prophylactic antibiotics (non-cardiac procedures)
Status	Endorsed 7/2008	Currently undergoing review	Currently undergoing review	Endorsed 7/2008
Steward	American Medical Association - Physician Consortium for Performance Improvement	Society of Thoracic Surgeons	Centers for Medicare & Medicaid Services	American Medical Association- Physician Consortium for Performance Improvement
Description	Percentage of cardiac surgical patients aged 18 years and older undergoing procedures with the indications for prophylactic antibiotics AND who received a prophylactic antibiotic, who have an order for discontinuation of prophylactic antibiotics within 48 hours of surgical end time.	Percent of patients aged 18 years and older undergoing cardiac surgery whose prophylactic antibiotics were discontinued within 48 hours after surgery end time.	Surgical patients whose prophylactic antibiotics were discontinued within 24 hours after Anesthesia End Time. The Society of Thoracic Surgeons (STS) Practice Guideline for Antibiotic Prophylaxis in Cardiac Surgery (2006) indicates that there is no reason to extend antibiotics beyond 48 hours for cardiac surgery and very explicitly states that antibiotics should not be extended beyond 48 hours even with tubes and drains in place for cardiac surgery.	Percentage of non-cardiac surgical patients aged 18 years and older undergoing procedures with the indications for prophylactic antibiotics AND who received a prophylactic antibiotic, who have an order for discontinuation of prophylactic antibiotics within 24 hours of surgical end time.
Type of Measure	Process	Process	Process	Process
Numerator	Cardiac surgical patients who have an order for discontinuation of prophylactic antibiotics within 48 hours of surgical end time.	Number of patients undergoing cardiac surgery whose prophylactic antibiotics were discontinued within 48 hours after surgery end time.	Number of surgical patients whose prophylactic antibiotics were discontinued within 24 hours after Anesthesia End Time (48 hours for CABG or Other Cardiac Surgery).	Non-cardiac surgical patients who have an order for discontinuation of prophylactic antibiotics within 24 hours of surgical end time. Numerator Instructions: There must be documentation of order (written order, verbal order, or standing order/protocol) specifying that prophylactic antibiotic is to be

	Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
	Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
	antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
			after surgery end time	procedures)
				discontinued within 24 hours of
				surgical end time OR specifying a
				course of antibiotic
				administration limited to that 24-
				hour period (e.g., "to be given
				every 8 hours for three doses")
				OR documentation that
				prophylactic antibiotic was
		Time window: Within 48 hours		discontinued within 24 hours of
		after surgery end time.		surgical end time.
Numerator	CPT II 4043F: Documentation that	Number of cardiac surgery	Data Elements:	CPT II 4049F: Documentation that
Details	an order was	procedures in which appropriate	Anesthesia End Date	order was given to discontinue
	given to discontinue prophylactic	antibiotic discontinuation	Anesthesia End Time	prophylactic antibiotics within 24
	antibiotics	[AbxDisc (STS Adult Cardiac	Antibiotic Administration Date	hours of surgical end time, non-
	within 48 hours of surgical end	Surgery Database Version 2.73)] is	Antibiotic Administration Time	cardiac procedure.
	time, cardiac	marked "yes"		
	procedure.			Note: CPT Category II Code
				4049F is provided for
	*Note: CPT Category II Code			documentation that antibiotic
	4043F may be provided			discontinuation was ordered OR
	for documentation that antibiotic			that antibiotic discontinuation
	discontinuation			was accomplished. Report CPT
	was ordered OR that antibiotic			Category II Code 4049F if
	discontinuation			antibiotics were discontinued
	was accomplished. Report CPT			within 24 hours
	Category II Code			
	4043F if antibiotics were			
	discontinued within			
	48 hours.			
Denominator	All cardiac surgical patients aged	Number of patients undergoing	Number of surgical patients with:	All non-cardiac surgical patients
	18 years and older undergoing	cardiac surgery.	CABG (ICD-9-CM procedure	undergoing procedures with the
	procedures with the indications		codes 36.10-36.14, 36.19, 36.15-	indications for prophylactic
	tor prophylactic antibiotics AND		36.17, 36.2), other cardiac surgery	antibiotics and who received a
	who received a prophylactic		(35.0-35.95, 35.98, 35.99), colon	prophylactic antibiotic.

	Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
	Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
	antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		0.71	after surgery end time	procedures)
	antibiotic.		surgery (45.00, 45.03, 45.41, 45.49,	
			45.50, 45.7-45.90, 45.92-45.95,	
			46.03, 46.04, 46.1-46.14, 46.52,	
			46.75, 45.76, 46.91, 46.92, 46.94,	
			48.5, 48.6-48.69), hip arthroplasty	
			(81.51, 81.52), knee arthroplasty	
			(81.54), abdominal hysterectomy	
			(68.3, 68.4, 68.6), vaginal	
			hysterectomy (68.5-68.59, 68.7), or	
			vascular surgery (38.34, 38.36,	
			38.37, 38.44, 38.48, 38.49, 38.51,	
			38.52. 38.64, 38.14, 38.16, 38.18,	
			39.25, 39.26, 39.29).	
Denominator		Female, Male; 18 yrs and older	Female, Male; Patients aged 18	
Categories			and older	
Denominator	CPT II 4046F:Documentation that	Number of cardiac surgery	Data Elements:	CPT II 4046F: Documentation that
Details	prophylactic	procedures;	Admission Date	prophylactic antibiotics were
	antibiotics were given within 4		Anesthesia Start Date	given within 4 hours prior to
	hours prior to	A cardiac procedure is determined	Antibiotic Administration Route	surgical incision or given
	surgical incision or given	as a procedure for which at least	Antibiotic Name	intraoperatively; CPT II 4042F:
	intraoperatively; CPT II	one of the following is not marked	Antibiotic Received	Documentation that prophylactic
	4042F:Documentation that	"no" or "missing" (note: full terms	Birthdate	antibiotics were neither given
	prophylactic antibiotics	for STS field names are provided	Clinical Trial	within 4 hours prior to surgical
	were neither given within 4 hours	in brackets []):	Discharge Date	incision nor given
	prior to	OpCAB[Coronary Artery Bypass],	ICD-9-CM Principal Diagnosis	intraoperatively
	surgical incision nor given	OpValve[Valve Surgery],	Code	AND
	intraoperatively	VADProc [VAD Implanted or	ICD-9-CM Principal Procedure	 CPT Procedure Codes:
		Removed], VSAV [Aortic Valve	Code	Integumentary: 15734, 15738,
	AND	Procedure], VSMV [Mitral Valve	Infection Prior to Anesthesia	19260, 19271, 19272, 19301-19307,
		Procedure], OpTricus [Tricuspid	Laparoscope	19361, 19364, 19366-19369
	CPT Procedure Codes:	Valve Procedure Performed],	Oral Antibiotics	Spine: 22325, 22612, 22630, 22800,
	Cardiothoracic Surgery: 33120,	OpPulm[Pulmonic Valve	Other Surgeries	22802, 22804, 63030, 63042
	33130, 33140,	Procedure Performed], OpOCard	Perioperative Death	Hip Reconstruction: 27125, 27130,
	33141, 33202, 33250, 33251, 33256,	[Other Cardiac Procedure other	Reasons to Extend Antibiotics	27132, 27134, 27137, 27138

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Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
33261, 33305,	than CABG or Valve], OCarLVA	Surgical Incision Date	Trauma (Fractures): 27235, 27236,
33315, 33321, 33322, 33332, 33335,	[Left Ventricular Aneurysm	Surgical Incision Time	27244, 27245, 27758, 27759, 27766,
33400, 33401,	Repair], OCarVSD [Ventricular		27792, 27814
33403-33406, 33410, 33411, 33413,	Septal Defect Repair], OCarSVR		Knee Reconstruction: 27440-
33416, 33422, 33425-33427, 33430,	[Surgical Ventricular Restoration],		27443, 27445-27447
33460, 33463-33465, 33475,	OCarCong [Congenital Defect		Vascular: 33877, 33880, 33881,
33496, 33510-33519, 33521-33523,	Repair], OCarTrma [surgical		33883, 33886, 33891, 34800, 34802-
33530, 33533-	procedure for an injury due to		34805, 34825, 34830-34832, 34900,
33536, 33542, 33545, 33548, 33572,	Cardiac Trauma], OCarCrTx		35081, 35091, 35102, 35131, 35141,
35021, 35211,	[Cardiac Transplant], OCarACD		35151, 35601, 35606, 35612, 35616,
35216, 35241, 35246, 35271, 35276,	[Arrhythmia Correction Surgery],		35621, 35623, 35626, 35631, 35636-
35311.	OCAoProcType[Aortic Procedure		35638, 35642, 35645-35647, 35650,
	Type], EndoProc [Endovascular		35651, 35654, 35656, 35661, 35663,
	Procedure (TEVAR)], OCTumor		35665, 35666, 35671, 36830
	[resection of an intracardiac		Spleen and Lymph Nodes: 38115
	tumor], OCPulThromDis		Esophagus: 43045, 43100, 43101,
	[Pulmonary		43107, 43108, 43112, 43113, 43116-
	Thromboembolectomy,, OCarOthr		43118, 43121-43124, 43130, 43135,
	[Other Cardiac Procedure other		43300, 43305, 43310, 43312, 43313,
	than those listed previously],		43320, 43324-43326, 43330, 43331,
	ECMO [Extracorporeal Membrane		43340, 43341, 43350, 43351, 43352,
	Oxygenation], OCarLasr [-		43360, 43361, 43400, 43401, 43405,
	Transmyocardial Laser		43410, 43415, 43420, 43425, 43496
	Revascularization], OCarASD		Stomach: 43500-43502, 43510,
	[Atrial Septal Defect Repair],		43520, 43600, 43605, 43610, 43611,
	OCarAFibSur [Atrial Fibrillation		43620-43622, 43631-43634, 43640,
	Surgical Procedure]		43641, 43653, 43800, 43810, 43820,
			43825, 43830-43832, 43840, 43842,
			43843, 43845-43848, 43850, 43855,
			43860, 43865, 43870
			Small Intestine: 44005, 44010,
			44020, 44021, 44050, 44055, 44100,
			44120, 44125-44127, 44130, 44132,
			44133, 44135, 44136

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
	0 5 1	after surgery end time	procedures)
			Biliary Surgery: 47420, 47425,
			47460, 47480, 47560, 47561, 47570,
			47600, 47605, 47610, 47612, 47620,
			47700, 47701, 47711, 47712, 47715,
			47719-47721, 47740, 47741, 47760,
			47765, 47780, 47785, 47800, 47802,
			47900
			Pancreas: 48020, 48100, 48120,
			48140, 48145, 48146, 48148, 48150,
			48152-48155, 48160, 48500, 48510,
			48511, 48520, 48540, 48545, 48547,
			48548, 48550, 48554, 48556
			Abdomen, Peritoneum, and
			Omentum: 49215, 49568
			Renal Transplant: 50300, 50320,
			50340, 50360, 50365, 50370, 50380
			Neurological Surgery: 22524,
			22554, 22558, 22600, 22612, 22630,
			35301, 61154, 61312, 61313, 61315,
			61510, 61512, 61518, 61548, 61697,
			61700, 61750, 61751, 61867, 62223,
			62230, 63015, 63020, 63030, 63042,
			63045, 63047, 63056, 63075, 63081,
			63267, 63276
			Cardiothoracic Surgery: 33120,
			33130, 33140, 33141, 33202, 33250,
			33251, 33256, 33261, 33305, 33315,
			33321, 33322, 33332, 33335, 33400,
			33401, 33403-33406, 33410, 33411,
			33413, 33416, 33422, 33425-33427,
			33430, 33460, 33463-33465, 33475,
			33496, 33510-33519, 33521-33523,
			33530, 33533-33536, 33542, 33545,
			33548, 33572, 35211, 35241, 35271

	Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
	Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
	antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
			after surgery end time	procedures)
				General Thoracic Surgery: 19272,
				21627, 21632, 21740, 21750, 21805,
				21825, 31760, 31766, 31770, 31775,
				31786, 31805, 32095, 32100, 32110,
				32120, 32124, 32140, 32141, 32150,
				32215, 32220, 32225, 32310, 32320,
				32402, 32440, 32442, 32445, 32480,
				32482, 32484, 32486, 32488, 32491,
				32500, 32501, 32800, 32810, 32815,
				32900, 32905, 32906, 32940, 33020,
				33025, 33030, 33031, 33050, 33300,
				33310, 33320, 34051, 35021, 35216,
				35246, 35276, 35311, 35481, 35526,
				37616, 38381, 38746, 38747, 39000,
				39010, 39200, 39220, 39545, 39561,
				60521, 60522, 64746
				Foot & Ankle: 27702, 27703,
				27704, 27870, 28192, 28193, 28293,
				28296, 28299, 28300, 28306, 28307,
				28308, 28309, 28310, 28320, 28322,
				28415, 28420, 28445, 28465, 28485,
				28505, 28525, 28531, 28555, 28585,
				28615, 28645, 28675, 28705, 28715,
				28725 , 28730, 28735, 28737, 28740,
				28750, 28755, 28760
Exclusions	Exclude patients for whom	Exclusions:	Excluded Populations:	Documentation of medical
	prophylactic antibiotics was not	- Patients who had a principal	Patients less than 18 years of age	reason(s) for not discontinuing
	ordered by reason of appropriate	diagnosis suggestive of	Patients who have a length of	prophylactic antibiotics within 24
	denominator exclusion. If using	preoperative infectious diseases	Stay greater than 120 days	hours of surgical end time.
	electronic data, exclude patients	- Patients whose ICD-9-CM	Patients who had a principal	
	using the following code: If using	principal procedure was	diagnosis suggestive of	
	the medical record or hybrid	performed entirely by	preoperative infectious diseases	
	methodologies, exclude patients	Laparoscope	(as defined in Appendix A, Table	
	who have documentation in the	- Patients enrolled in clinical trials	5.09 for ICD-9-CM codes)	

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Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
medical record of: medical	- Patients with documented	Patients whose ICD-9-CM	
reason(s) for not discontinuing	infection prior to surgical	principal procedure was	
prophylactic antibiotics within 48	procedure of interest	performed entirely by	
hours of surgical end time, cardiac	- Patients who expired	Laparoscope	
procedure. If using the EHR	perioperatively	Patients enrolled in clinical trials	
methodology, exclude patients	- Patients who were receiving	Patients whose ICD-9-CM	
using the codes listed in the	antibiotics more than 24 hours	principal procedure occurred	
electronic data collection	prior to surgery	prior to the date of admission	
methodology or who have	- Patients who were receiving	Patients with	
documentation in the medical	antibiotics within 24 hours prior to	physician/advanced practice	
record of the appropriate	arrival	nurse/physician assistant	
denominator exclusion.	- Patients who did not receive any	(physician/APN/PA)	
	antibiotics during this	documented infection prior to	
	hospitalization	surgical procedure of interest	
	- Patients with reasons to extend	Patients who expired	
	antibiotics	perioperatively	
	This list will be provided in the	Patients who had other	
	STS Adult Cardiac Surgery	procedures requiring general or	
	Database Data Manager's Training	spinal anesthesia that occurred	
	Manual as acceptable exclusions.	within three days (four days for	
		CABG or Other Cardiac Surgery)	
		prior to or after the procedure of	
		interest (during separate surgical	
		episodes) during this hospital	
		stay	
		Patients who were receiving	
		antibiotics more than 24 hours	
		prior to surgery (except colon	
		surgery patients taking oral	
		Prophylactic antibiotics)	
		Patients who were receiving	
		antibiotics within 24 nours prior	
		to arrival (except colon surgery	
		patients taking oral prophylactic	

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	Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
	antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours after surgery end time	antibiotics (non-cardiac procedures)
			antibiotics) Patients who did not receive any antibiotics during this hospitalization. Patients who received urinary antiseptics only (as defined in Appendix C, Table 3.11) Patients with Reasons to Extend Antibiotics.	
Exclusion Details	Append a modifier (1P) to the CPT Category II Code to report patients with documented circumstances that meet the denominator exclusion criteria 1P:Documentation of medical reason(s) for not discontinuing prophylactic antibiotics within 48 hours of surgical end time, cardiac procedure.	AbxDisc is marked "Exclusion"	Clinical Trial Infection Prior to Anesthesia Laparoscope Other Surgeries Perioperative Death Reasons to Extend Antibiotics	Append modifier to CPT Category II code: 4046F-1P
Risk Adjustment	No risk adjustment necessary	No risk adjustment necessary	No risk adjustment necessary	No risk adjustment necessary
Stratification			The antibiotic prophylaxis measures are stratified according to surgery type. The tables are subsets of Table 5.10 (see link for Specification Manual and Appendix A, Tables 5.01 to 5.08. The specific procedures must be in the large table (Table 5.10) to be eligible for the SCIP measures. The measure specific tables for	

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	Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
	Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
	antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
			after surgery end time	procedures)
			SCIP-Inf-3 are 5.01 to 5.08.	
Type Score		Rate/proportion	Rate/proportion	
Algorithm			1. Start processing. Run cases	
			that are included in the Surgical	
			Care Improvement Project (SCIP)	
			Initial Patient Population and	
			pass the edits defined in the	
			Transmission Data Processing	
			Flow: Clinical through this	
			measure.	
			2. Calculate Patient Age. The	
			Patient Age, in years, is equal to	
			the Admission Date minus the	
			Birthdate. Use the month and day	
			portion of admission date and	
			birthdate to yield the most	
			accurate age.	
			3. Check Patient Age	
			a. If Patient Age is less than 18	
			years, the case will proceed to a	
			Measure Category Assignment of	
			B and will not be in the Measure	
			Population. Stop processing for	
			Centers for Medicare and	
			Medicaid Services (CMS).	
			Proceed to step 47 and check the	
			Stratified Measures for Overall	
			Rate (SCIP-Inf-3a) for The Joint	
			Commission.	
			b. If Patient Age is greater than or	
			equal to 18 years, continue	
			processing and proceed to ICD-9-	
			CM Principal Procedure Code.	
			4. Check ICD-9-CM Principal	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		Procedure Code	
		a. If the ICD-9-CM Principal	
		Procedure Code is not on Table	
		5.01 or 5.02 or 5.03 or 5.04 or 5.05	
		or 5.06 or 5.07 or 5.08, the case	
		will proceed to a Measure	
		Category Assignment of B and	
		will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.01	
		or 5.02 or 5.03 or 5.04 or 5.05 or	
		5.06 or 5.07 or 5.08, continue	
		processing and proceed to	
		recheck ICD-9-CM Principal	
		Diagnosis Code.	
		5. Check ICD-9-CM Principal	
		Diagnosis Code	
		a. If the ICD-9-CM Principal	
		Diagnosis Code is on Table 5.09,	
		the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If the ICD-9-CM Principal	
		Diagnosis Code is not on Table	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		5.09, continue processing and	
		proceed to Laparoscope.	
		6. Check Laparoscope	
		a. If Laparoscope is missing, the	
		case will proceed to a Measure	
		Category Assignment of X and	
		will be rejected. Stop processing	
		for CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If Laparoscope equals 1 or 3,	
		the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		c. If Laparoscope equals 2,	
		continue processing and proceed	
		to Clinical Trial.	
		7. Check Clinical Trial	
		a. If Clinical Trial is missing, the	
		case will proceed to a Measure	
		Category Assignment of X and	
		will be rejected. Stop processing	
		tor CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Int-3a) for The	
		Joint Commission.	
		b. If Clinical Trial equals Yes, the	
		case will proceed to a Measure	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		Category Assignment of B and	
		will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		c. If Clinical Trial equals No,	
		continue processing and proceed	
		to Anesthesia Start Date.	
		8. Check Anesthesia Start Date	
		a. If the Anesthesia Start Date is	
		missing, the case will proceed to a	
		Measure Category Assignment of	
		X and will be rejected. Stop	
		processing for CMS. Proceed to	
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		b. If the Anesthesia Start Date	
		equals Unable To Determine, the	
		case will proceed to a Measure	
		Category Assignment of D and	
		will be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		c. It Anesthesia Start Date equals	
		a Non Unable To Determine	
		Value, continue processing and	
		proceed to the Surgery Days	
		calculation.	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		9. Calculate Surgery Days.	
		Surgery Days, in days, is equal to	
		the Anesthesia Start Date minus	
		the Admission Date.	
		10. Check Surgery Days	
		a. If the Surgery Days is less than	
		zero, the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If the Surgery Days is greater	
		than or equal to zero, continue	
		processing and proceed to	
		Infection Prior to Anesthesia.	
		11. Check Infection Prior to	
		Anesthesia	
		a. If Infection Prior to Anesthesia	
		is missing, the case will proceed	
		to a Measure Category	
		Assignment of X and will be	
		rejected. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. It Intection Prior to Anesthesia	
		equals Yes, the case will proceed	
		to a Measure Category	
		Assignment of B and will not be	
		in the Measure Population. Stop	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		processing for CMS. Proceed to	
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		c. If Infection Prior to Anesthesia	
		equals No, continue processing	
		and proceed to Perioperative	
		Death.	
		12. Check Perioperative Death	
		a. If Perioperative Death is	
		missing, the case will proceed to a	
		Measure Category Assignment of	
		X and will be rejected. Stop	
		processing for CMS. Proceed to	
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		b. If Perioperative Death equals	
		Yes, the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		c. If Perioperative Death equals	
		No, continue processing and	
		proceed to Surgical Incision Date.	
		13. Check Surgical Incision Date	
		a. If the Surgical Incision Date is	
		missing, the case will proceed to a	
		Measure Category Assignment of	
		X and will be rejected. Stop	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
	0.71	after surgery end time	procedures)
		processing for CMS. Proceed to	
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		b. If the Surgical Incision Date	
		equals Unable To Determine, the	
		case will proceed to a Measure	
		Category Assignment of D and	
		will be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		c. If Surgical Incision Date equals	
		a Non Unable To Determine	
		Value, continue processing and	
		proceed to Other Surgeries.	
		14. Check Other Surgeries	
		a. If Other Surgeries is missing,	
		the case will proceed to a	
		Measure Category Assignment of	
		X and will be rejected. Stop	
		processing for CMS. Proceed to	
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		b. If Other Surgeries equals Yes,	
		the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		c . If Other Surgeries equals No,	
		continue processing and proceed	
		to Antibiotic Received.	
		15. Check Antibiotic Received	
		a. If Antibiotic Received equals 1	
		or 2, continue processing and	
		proceed to recheck ICD-9-CM	
		Principal Procedure Code	
		b. If Antibiotic Received equals 4,	
		the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the Measure	
		Population. Stop processing	
		for CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		c. If Antibiotic Received equals 3,	
		continue processing and proceed	
		to step 19 and check Antibiotic	
		Name. Do not check step 16 ICD-	
		9-CM Principal Procedure Code,	
		step 17 Oral Antibiotics or step 18	
		Antibiotic Received.	
		16. Recheck ICD-9-CM Principal	
		Procedure Code only if Antibiotic	
		Received equals 1 or 2	
		a. If the ICD-9-CM Principal	
		Procedure Code is not on Table	
		5.03, the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the measure	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.03,	
		continue processing and proceed	
		to check Oral Antibiotics.	
		17. Check Oral Antibiotics	
		a. If Oral Antibiotics is missing,	
		the case will proceed to a	
		Measure Category Assignment of	
		X and will be rejected. Stop	
		processing for CMS. Proceed to	
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		b. If Oral Antibiotics equals No,	
		the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		c. If Oral Antibiotics equals Yes,	
		continue processing and proceed	
		to recheck Antibiotic Received.	
		18.Recheck Antibiotic Received	
		a. If Antibiotic Received equals 1,	
		the case will proceed to a	
		Measure Category Assignment of	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		B and will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If Antibiotic Received equals 2,	
		continue processing and proceed	
		to Antibiotic Name.	
		19. Check Antibiotic Name	
		a. If the Antibiotic Grid is not	
		populated, the case will proceed	
		to a Measure Category	
		Assignment of X and will be	
		rejected. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission. Note: The	
		front-end edits reject cases	
		containing invalid data and/or an	
		incomplete Antibiotic Grid. A	
		complete Antibiotic Grid requires	
		all data elements in the row to	
		contain either a valid value	
		and/or Unable to Determine.	
		b. If the Antibiotic Name is on	
		Table 2.1, continue processing	
		and recheck Antibiotic Name.	
		20. Recheck Antibiotic Name	
		a. If all of the Antibiotic Names	
		are on Table 3.11, the case will	
		proceed to a Measure Category	
		Assignment of B and will not be	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		in the Measure Population. Stop	
		processing for CMS. Proceed to	
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		b. If at least one of the Antibiotic	
		Names is NOT on Table 3.11,	
		continue processing and proceed	
		to Antibiotic Administration	
		Route. Exclude antibiotic doses	
		on Table 3.11 from further	
		processing.	
		21. Check Antibiotic	
		Administration Route	
		a. If the Antibiotic Administration	
		Route is equal to 3 or 10 for all	
		antibiotic doses, the case will	
		proceed to a Measure Category	
		Assignment of B and will not be	
		in the Measure Population. Stop	
		processing for CMS. Proceed to	
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		b. If the Antibiotic	
		Administration Route is equal to	
		1 or 2 for any antibiotic dose,	
		continue processing and proceed	
		to Antibiotic Administration	
		Date. Proceed only with antibiotic	
		doses on Table 2.1 that are	
		administered via routes 1 or 2.	
		22. Check Antibiotic	
		Administration Date	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		a. If the Antibiotic Administration	
		Date is equal to Unable to	
		Determine for all antibiotic doses,	
		the case will proceed to a	
		Measure Category Assignment of	
		D and will be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If the Antibiotic	
		Administration Date is equal to a	
		Non Unable to Determine date	
		for at least one antibiotic dose,	
		continue processing and proceed	
		to the Antibiotic Days I	
		calculation. Note: Proceed only	
		with antibiotic doses that have an	
		associated Non Unable to	
		Determine date.	
		23. Calculate Antibiotic Days I.	
		Antibiotic Days I, in days, is	
		equal to the Surgical Incision	
		Date minus the Antibiotic	
		Administration Date.	
		24. Check Antibiotic Days I	
		a. If the Antibiotic Days I is	
		greater than 1 for at least one	
		antibiotic dose, continue	
		processing and recheck the ICD-	
		9-CM Principal Procedure Code.	
		Do not recheck step 27 Antibiotic	
		Days I, step 28 Surgical Incision	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		Time, steps 29 and 30 Antibiotic	
		Administration Time, or step 31	
		Antibiotic Timing I.	
		b. If the Antibiotic Days I is less	
		than or equal to 1 for all antibiotic	
		doses, continue processing.	
		Proceed to step 27 and recheck	
		Antibiotics Days I. Do not recheck	
		ICD-9-CM Principal Procedure	
		Code or Oral Antibiotics.	
		25. Recheck ICD-9-CM Principal	
		Procedure Code only if Antibiotic	
		Days I is greater than 1 for at least	
		one antibiotic dose	
		a. If the ICD-9-CM Principal	
		Procedure Code is not on Table	
		5.03, the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.03,	
		continue processing and check	
		Oral Antibiotics.	
		26.Check Oral Antibiotics	
		a. If Oral Antibiotics is missing,	
		the case will proceed to a	
		Measure Category Assignment of	
		X and will be rejected. Stop	
		processing for CMS. Proceed to	
Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
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Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		b. If Oral Antibiotics equals No,	
		the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		c. If Oral Antibiotics equals Yes,	
		continue processing and proceed	
		to step 35 and check Anesthesia	
		End Date. Do not recheck step 27	
		Antibiotic Days I, step 28 Surgical	
		Incision Time, steps 29 and 30	
		Antibiotic Administration Time,	
		or 31 Antibiotic Timing I.	
		27. Recheck Antibiotic Days I	
		only if Antibiotic Days I was less	
		than or equal to 1 for all antibiotic	
		doses	
		a. If the Antibiotic Days I is less	
		than or equal to zero for ALL	
		antibiotic doses, continue	
		processing. Proceed to step 35	
		and check Anesthesia End Date.	
		Do not check step 28 Surgical	
		Incision Time, step 29 and 30	
		Antibiotic Administration Time,	
		or step 31 Antibiotic Timing I.	
		b. If the Antibiotic Days I is equal	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		to 1 for ANY antibiotic dose,	
		continue processing and proceed	
		to Surgical Incision Time.	
		28.Check Surgical Incision Time	
		a. If the Surgical Incision Time is	
		missing, the case will proceed to a	
		Measure Category Assignment of	
		X and will be rejected. Stop	
		processing for CMS. Proceed to	
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		b. If the Surgical Incision Time is	
		equal to Unable to Determine, the	
		case will proceed to a Measure	
		Category Assignment of D and	
		will be in the	
		Measure Population. Stop	
		processing for CMS. Proceed to	
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		c. If the Surgical Incision Time is	
		equal to a Non Unable to	
		Determine Value, continue	
		processing and check Antibiotic	
		Administration Time.	
		29.Check Antibiotic	
		Administration Time	
		a. If the Antibiotic Administration	
		Time equals Unable to Determine	
		for all antibiotic doses, the case	
		will proceed to a Measure	
		Category Assignment of D and	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		will be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If the Antibiotic	
		Administration Time equals a	
		Non Unable to Determine time	
		for at least one antibiotic dose,	
		continue processing and recheck	
		Antibiotic Administration Time.	
		30.Recheck Antibiotic	
		Administration Time	
		a. If the Antibiotic Administration	
		Time equals Unable to Determine	
		for ANY antibiotic dose with	
		Antibiotic Days I equal to 1, the	
		case will proceed to a Measure	
		Category Assignment of D and	
		will be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If the Antibiotic	
		Administration Time equals a	
		Non Unable to Determine time	
		for ALL antibiotic doses with	
		Antibiotic Days I equal to 1,	
		continue processing and proceed	
		to the Antibiotic Timing I	
		calculation.	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		31.Calculate Antibiotic Timing I.	
		Antibiotic Timing I, in minutes, is	
		equal to the Surgical Incision	
		Date and Surgical Incision Time	
		minus the Antibiotic	
		Administration Date and	
		Antibiotic Administration Time.	
		Calculate Antibiotic Timing I for	
		all antibiotic doses with non	
		Unable to Determine date and	
		time. Proceed with antibiotic	
		doses that have Antibiotic Timing	
		I calculated, or Antibiotic Days I	
		less than or equal to zero.	
		32.Check Antibiotic Timing I	
		a. If the Antibiotic Timing I is	
		greater than 1440 minutes for any	
		antibiotic dose, continue	
		processing and recheck the ICD-	
		9-CM Principal Procedure Code.	
		Proceed with antibiotic does that	
		have Antibiotic Timing I	
		calculated, or Antibiotic Days I	
		less than or equal to zero.	
		b. If the Antibiotic Timing I is less	
		than or equal to 1440 minutes for	
		all antibiotic doses with non	
		Unable to Determine date and	
		time, continue processing.	
		Proceed to step 35 and check	
		Anesthesia End Date. Do not	
		recheck ICD-9-CM Principal	
		Procedure Code or Oral	
		Antibiotics.	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		33. Recheck ICD-9-CM Principal	
		Procedure Code only if the	
		Antibiotic Timing I is greater than	
		1440 minutes for any antibiotic	
		dose	
		a. If the ICD-9-CM Principal	
		Procedure Code is not on Table	
		5.03, the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.03,	
		continue processing and check	
		Oral Antibiotics.	
		34.Check Oral Antibiotics	
		a. If Oral Antibiotics is missing,	
		the case will proceed to a	
		Measure Category Assignment of	
		X and will be rejected. Stop	
		processing for CMS. Proceed to	
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		b. If Oral Antibiotics equals No,	
		the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		c. If Oral Antibiotics equals Yes,	
		continue processing and proceed	
		to Anesthesia End Date.	
		35. Check Anesthesia End Date	
		a. If the Anesthesia End Date is	
		missing, the case will proceed to a	
		Measure Category Assignment of	
		X and will be rejected. Stop	
		processing for CMS. Proceed to	
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		b. If the Anesthesia End Date is	
		equal to Unable to Determine, the	
		case will proceed to a Measure	
		Category Assignment of D and	
		will be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		c. If the Anesthesia End Date is	
		equal to a Non Unable to	
		Determine value, continue	
		processing and proceed to the	
		Antibiotic Days II calculation.	
		36. Calculate Antibiotic Days II.	
		Antibiotic Days II, in days, is	
		equal to the Antibiotic	
		Administration Date minus the	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		Anesthesia End Date.	
		37. Set Exclusion Flag, for all	
		cases, to equal No. If all of the	
		antibiotic doses of a case satisfy	
		one of the two following	
		conditions, set Exclusion Flag (for	
		this case) to equal ?Yes'. These	
		conditions are:	
		a. Antibiotic Days II is greater	
		than 3 days regardless of table on	
		which procedure code is on; OR	
		b. Antibiotic Days II is greater	
		than 2 days AND ICD-9-CM	
		Principal Procedure Code is on	
		Table 5.03, 5.04, 5.05, 5.06, 5.07, or	
		5.08.	
		38. Check Exclusion Flag	
		a. If the Exclusion Flag is equal to	
		Yes, the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If the Exclusion Flag is equal to	
		No, continue processing and	
		proceed to check Antibiotic Days	
		II. Remove any dose that satisfies	
		one of the two following	
		conditions. These conditions are:	
		1. Antibiotic Days II is greater	
		than 3 days regardless of	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
· · · · · · · · · · · · · · · · · · ·	0 7 1	after surgery end time	procedures)
		procedure on which procedure	
		code is on; OR	
		2. Antibiotic Days II is greater	
		than 2 days AND ICD-9-CM	
		Principal Procedure Code is on	
		Table 5.03, 5.04, 5.05, 5.06, 5.07 or	
		5.08.	
		39.Check Antibiotic Days II	
		a. If the Antibiotic Days II is less	
		than or equal to zero for all	
		antibiotic doses, the case will	
		proceed to a Measure Category	
		Assignment of E and will be in	
		the Numerator Population. Stop	
		processing for CMS. Proceed to	
		step 47 and check the Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		b. If the Antibiotic Days II is	
		greater than zero for at least one	
		antibiotic dose, continue	
		processing and recheck ICD-9-	
		CM Principal Procedure Code.	
		40.Recheck ICD-9-CM Principal	
		Procedure Code	
		a. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.01	
		or 5.02, continue processing and	
		recheck Antibiotic Days II.	
		1.If the Antibiotic Days II is less	
		than 2 days for antibiotic doses,	
		the case will proceed to a	
		Measure Category Assignment of	
		E and will be in the Numerator	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		2.If the Antibiotic Days II is	
		greater than or equal to 2 days for	
		at least one antibiotic dose,	
		continue processing and proceed	
		to Anesthesia End Time.	
		b. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.03	
		or 5.04 or 5.05 or 5.06 or 5.07 or	
		5.08, continue processing and	
		proceed to Anesthesia End Time.	
		41. Check Anesthesia End Time	
		a. If the Anesthesia End Time is	
		missing, the case will proceed to a	
		Measure Category Assignment of	
		X and will be rejected. Stop	
		processing for CMS.	
		Proceed to step 47 and check the	
		Stratified Measures for Overall	
		Rate (SCIP-Inf-3a) for The Joint	
		Commission.	
		b. If the Anesthesia End Time is	
		equal to Unable to Determine, the	
		case will proceed to a Measure	
		Category Assignment of D and	
		will be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
	0 7 1	after surgery end time	procedures)
		Joint Commission.	í í
		c. If the Anesthesia End Time is	
		equal to a Non Unable to	
		Determine Value, continue	
		processing and recheck Antibiotic	
		Administration Time.	
		42. Recheck Antibiotic	
		Administration Time	
		a. If the Antibiotic Administration	
		Time equals Unable to Determine	
		for all antibiotic doses, the case	
		will proceed to a Measure	
		Category Assignment of D and	
		will be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If the Antibiotic	
		Administration Time equals a	
		Non Unable to Determine time	
		for at least one antibiotic dose,	
		continue processing and proceed	
		to the Antibiotic Timing II	
		calculation. Remove from	
		consideration any antibiotic doses	
		for which Antibiotic	
		Administration Time equals	
		Unable to Determine.	
		43. Calculate Antibiotic Timing II.	
		Antibiotic Timing II, in minutes,	
		is equal to the Antibiotic	
		Administration Date and	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		Antibiotic Administration Time	
		minus Anesthesia End Date and	
		Anesthesia End Time.	
		44. Set Exclusion Flag. Set	
		Exclusion Flag, for all cases, to	
		equal ?No'. If all of the antibiotic	
		doses of a case satisfy one of the	
		two following conditions, set	
		Exclusion Flag (for this case) to	
		equal ?Yes'. These conditions are:	
		a. Antibiotic Timing is greater	
		than 4320 minutes; OR	
		b. Antibiotic Timing II is greater	
		than 2880 minutes AND ICD-9-	
		CM Principal Procedure Code is	
		on Table 5.03, 5.04, 5.05, 5.06, 5.07,	
		or 5.08.	
		45. Check Exclusion Flag	
		a. If the Exclusion Flag equals	
		Yes, the case will proceed to a	
		Measure Category Assignment of	
		B and will not be in the Measure	
		Population. Stop processing for	
		CMS. Proceed to step 47 and	
		check the Stratified Measures for	
		Overall Rate (SCIP-Inf-3a) for The	
		Joint Commission.	
		b. If the Exclusion Flag equals No,	
		continue processing and recheck	
		ICD-9-CM Principal Procedure	
		Code and Antibiotic Timing II.	
		Remove any dose that satisfies	
		one of the two following	
		conditions. These conditions are:	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		1. Antibiotic Timing II is greater	
		than 4320 minutes; OR	
		Principal Procedure Code is on	
		Table 5.03, 5.04, 5.05, 5.06, 5.07, or	
		5.08.	
		46.Recheck ICD-9-CM Principal	
		Procedure Code and Antibiotic	
		Timing II	
		a. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.01	
		or 5.02 and Antibiotic Timing II is	
		less than or equal to 2880 minutes	
		for all antibiotic doses, the case	
		will proceed to a Measure	
		Category Assignment of E and	
		will be in the Numerator	
		Population. Stop processing for	
		CMS. Proceed to Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		b. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.01	
		or 5.02 and Antibiotic Timing II is	
		greater than 2880 minutes for at	
		least one antibiotic dose, continue	
		processing and proceed to check	
		Reasons To Extend Antibiotics.	
		1. If Reasons To Extend	
		Antibiotics is missing, the case	
		will proceed to a Measure	
		Category Assignment of X and	
		will be rejected. Stop processing	
		for CMS. Proceed to Stratified	
		Measures for Overall Rate (SCIP-	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		Inf-3a) for The Joint Commission.	
		2. If Reasons To Extend	
		Antibiotics equals 7, the case will	
		proceed to a Measure Category	
		Assignment of D and will be in	
		the Measure Population. Stop	
		processing for CMS. Proceed to	
		Stratified Measures for Overall	
		Rate (SCIP-Inf-3a) for The Joint	
		Commission.	
		3. If Any Reasons To Extend	
		Antibiotics equals 1, 2, 3, 4, 5, 6	
		and None equals 7, the case will	
		proceed to a Measure Category	
		Assignment of B and will not be	
		in the Measure Population. Stop	
		processing for CMS. Proceed to	
		Stratified Measures for Overall	
		Rate (SCIP-Inf-3a) for The Joint	
		Commission.	
		c. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.03	
		or 5.04 or 5.05 or 5.06 or 5.07 or	
		5.08 and Antibiotic Timing II is	
		less than or equal to 1440 minutes	
		for all antibiotic doses, the case	
		will proceed to a Measure	
		Category Assignment of E and	
		will be in the Numerator	
		Population. Stop processing for	
		CMS. Proceed to Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		d. If the ICD-9-CM Principal	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		Procedure Code is on Table 5.03	
		or 5.04 or 5.05 or 5.06 or 5.07 or	
		5.08 and Antibiotic Timing II is	
		greater than 1440 minutes for at	
		least one antibiotic dose, continue	
		processing and proceed to check	
		Reasons To Extend Antibiotics.	
		1. If Reasons To Extend	
		Antibiotics is missing, the case	
		will proceed to a Measure	
		Category Assignment of X and	
		will be rejected. Stop processing	
		for CMS. Proceed to Stratified	
		Measures for Overall Rate (SCIP-	
		Inf-3a) for The Joint Commission.	
		2. If Reasons To Extend	
		Antibiotics equals 7, the case will	
		proceed to a Measure Category	
		Assignment of D and will be in	
		the Measure Population. Stop	
		processing for CMS. Proceed to	
		Stratified Measures for Overall	
		Rate (SCIP-Inf-3a) for The Joint	
		Commission.	
		3. If Any Reasons To Extend	
		Antibiotics equals 1, 2, 3, 4, 5, 6	
		and None equals 7, the case will	
		proceed to a Measure Category	
		Assignment of B and will not be	
		in the Measure Population. Stop	
		processing for CMS. Proceed to	
		Stratified Measures for Overall	
		Kate (SCIP-Int-3a) for The Joint	
		Commission.	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		47. For The Joint Commission	
		Only, continue processing for the	
		Stratified Measures. Note:	
		Initialize the Measure Category	
		Assignment for each strata	
		measure (b-g) to equal B, not in	
		the Measure Population. Do not	
		change the Measure Category	
		Assignment that was already	
		calculated for the overall rate	
		(SCIP-Inf-3a). The rest of the	
		algorithm will reset the	
		appropriate Measure Category	
		Assignment to be equal to the	
		overall rate's (SCIP-Inf-3a)	
		Measure Category Assignment.	
		48. Check Overall Rate Category	
		Assignment	
		a. If the Overall Rate Category	
		Assignment is equal to B or X, set	
		the Measure Category	
		Assignment for the strata	
		measures (SCIP-Inf-3b through	
		SCIP-Inf-3h) to equal B, not in the	
		Measure Population. Stop	
		processing.	
		b. If the Overall Rate Category	
		Assignment is equal to D or E,	
		continue processing and check	
		the ICD-9-CM Principal	
		Procedure Code.	
		49. Check ICD-9-CM Principal	
		Procedure Code	
		a. If the ICD-9-CM Principal	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		Procedure Code is on Table 5.01,	
		for Stratified Measure SCIP-Inf-	
		3b, set the Measure Category	
		Assignment for measure SCIP-	
		Inf-3b to equal the Measure	
		Category Assignment for	
		measure SCIP-Inf-3a. Stop	
		processing.	
		b. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.02	
		or 5.03 or 5.04 or 5.05 or 5.06 or	
		5.07 or 5.08, continue processing	
		and recheck the ICD-9-CM	
		Principal Procedure Code.	
		50. Recheck ICD-9-CM Principal	
		Procedure Code	
		a. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.02,	
		for Stratified Measure SCIP-Inf-	
		3c, set the Measure Category	
		Assignment for measure SCIP-	
		Inf-3c to equal the Measure	
		Category Assignment for	
		measure SCIP-Int-3a. Stop	
		processing.	
		b. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.03	
		or 5.04 or 5.05 or 5.06 or 5.07 or	
		5.08, continue processing and	
		recneck the ICD-9-CM Principal	
		Procedure Code.	
		51. Kecheck ICD-9-CM Principal	
		Procedure Code	
		a. If the ICD-9-CM Principal	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
		after surgery end time	procedures)
		Procedure Code is on Table 5.04,	
		for Stratified Measure SCIP-Inf-	
		3d, set the Measure Category	
		Assignment for measure SCIP-	
		Inf-3d to equal the Measure	
		Category Assignment for	
		measure SCIP-Inf-3a. Stop	
		processing.	
		b. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.03	
		or 5.05 or 5.06 or 5.07 or 5.08,	
		continue processing and recheck	
		the ICD-9-CM Principal	
		Procedure Code.	
		52. Recheck ICD-9-CM Principal	
		Procedure Code	
		a. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.05,	
		for Stratified Measure SCIP-Inf-	
		3e, set the Measure Category	
		Assignment for measure SCIP-	
		Inf-3e to equal the Measure	
		Category Assignment for	
		measure SCIP-Inf-3a. Stop	
		processing.	
		b. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.03	
		or 5.06 or 5.07 or 5.08, continue	
		processing and recheck the ICD-	
		9-CM Principal Procedure Code.	
		53. Kecheck ICD-9-CM Principal	
		Procedure Code	
		a. If the ICD-9-CM Principal	
		Procedure Code is on Table 5.03,	

	Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
	Discontinuation of prophylactic	Duration of antibiotic prophylaxis	Prophylactic antibiotics	Discontinuation of prophylactic
	antibiotics (cardiac procedures)	for cardiac surgery patients	discontinued within 24 hours	antibiotics (non-cardiac
			after surgery end time	procedures)
			for Stratified Measure SCIP-Inf-3f,	
			set the Measure Category	
			Assignment for measure SCIP-	
			Inf-3f to equal the Measure	
			Category Assignment for	
			measure SCIP-Inf-3a. Stop	
			processing.	
			b. If the ICD-9-CM Principal	
			Procedure Code is on Table 5.06	
			or 5.07 or 5.08, continue	
			processing and recheck the ICD-	
			9-CM Principal Procedure Code.	
			54. Recheck ICD-9-CM Principal	
			Procedure Code	
			a. If the ICD-9-CM Principal	
			Procedure Code is on Table 5.06	
			or 5.07, for Stratified Measure	
			SCIP-Inf-3g, set the Measure	
			Category Assignment for	
			measure SCIP-Inf-3g to equal the	
			Measure Category Assignment	
			for measure SCIP-Inf-3a. Stop	
			processing.	
			b. If the ICD-9-CM Principal	
			Procedure Code is on Table 5.08,	
			for Stratified Measure SCIP-Inf-	
			3h, set the Measure Category	
			Assignment for measure SCIP-	
			Inf-3h to equal the Measure	
			Category Assignment for	
			measure SCIP-Inf-3a. Stop	
			processing.	
Data Source	Electronic health/medical record,	Registry data	Electronic administrative	Electronic administrative
	paper medical record/flow-sheet		data/claims, paper medical	data/claims, lab data, paper

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NQF MEMBER comments due October 26, 20116:00 PM ET; PUBLIC comments due October 19, 2011 6:00 PM ET

	Endorsed Measure 0637: Discontinuation of prophylactic antibiotics (cardiac procedures)	Maintenance Measure 0128: Duration of antibiotic prophylaxis for cardiac surgery patients	Maintenance Measure 0529: Prophylactic antibiotics discontinued within 24 hours after surgery end time	Endorsed Measure 0271: Discontinuation of prophylactic antibiotics (non-cardiac procedures)
			record/flow-sheet	medical record/flow-sheet
Level of Measurement /Analysis	Clinicians: Individual, group	Clinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities	Facility/agency	Clinicians: Individual, group
Care Settings	Hospital, Ambulatory care: Ambulatory surgery center	Hospital	Hospital	Hospital, Ambulatory care: Ambulatory surgery center

Prophylactic Antibiotics: Selection

	Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
	Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
	prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
	patients	generation cephalosporin	
Status	Currently undergoing review	Endorsed 7/2008	Currently undergoing review
Steward	Society of Thoracic Surgeons	American Medical Association- Physician Consortium for Performance Improvement	Centers for Medicare & Medicaid Services
Description	Percent of patients aged 18 years and older undergoing cardiac surgery who received preoperative prophylactic antibiotics recommended for the operation.	Percentage of surgical patients aged 18 years and older undergoing procedures with the indications for a first OR second generation cephalosporin prophylactic antibiotic, who had an order for cefazolin OR cefuroxime for antimicrobial prophylaxis.	Surgical patients who received prophylactic antibiotics consistent with current guidelines (specific to each type of surgical procedure).
Type of Measure	Process	Process	Process
Numerator	Number of patients undergoing cardiac surgery patients who received a first generation or second generation cephalosporin prophylactic antibiotic (e.g., cefazolin, cefuroxime, cefamandole) preoperatively or in the event of a documented allergy, an alternate antibiotic choice (e.g., vancomycin, clindamycin) was ordered and administered preoperatively.	Surgical patients who had an order for cefazolin OR cefuroxime for antimicrobial prophylaxis. Numerator Instructions: There must be documentation of order (written order, verbal order, or standing order/protocol) for cefazolin or cefuroxime for antimicrobial prophylaxis OR documentation that cefazolin or cefuroxime was given. Report one of the following CPT Category II codes: • CPT II 4041F: Documentation of order for cefazolin OR cefuroxime for antimicrobial prophylaxis. Note: CPT Category II Code 4041F is provided for antibiotic ordered or antibiotic given. Report CPT Category II Code 4041F if cefazolin OR cefuroxime was given for antimicrobial prophylaxis.	Surgical patients who received recommended prophylactic antibiotics for specific surgical procedures.
Numerator Details	Number of cardiac surgery procedures in which appropriate antibiotic selection [AbxSelect (STS Adult Cardiac Surgery Database Version 2.73)] is marked "ves"		Data Elements: Antibiotic Administration Route Antibiotic Allergy Antibiotic Name Oral Antibiotics Vancomycin

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE

NQF MEMBER comments due October 26, 20116:00 PM ET; PUBLIC comments due October 19, 2011 6:00 PM ET

Denominator	Maintenance Measure 0126: Selection of antibiotic prophylaxis for cardiac surgery patients Number of patients undergoing cardiac surgery. Time window: 12 months	Endorsed Measure 0268: Selection of prophylactic antibiotic: First or second generation cephalosporin All surgical patients aged 18 years and older undergoing procedures with the indications for a first or second generation cephalosporin prophylactic antibiotic.	Maintenance Measure 0528: Prophylactic antibiotic selection for surgical patients All selected surgical patients with no evidence of prior infection. Included Populations: An ICD-9-CM Principal Procedure Code of selected surgeries (as defined in Appendix A, Table 5.10 for ICD-9-CM codes). AND An ICD-9-CM Principal Procedure Code of selected surgeries (as defined in Appendix
			A, Table 5.01-5.08 for ICD-9-CM codes).
Denominator Categories	Female, Male; 18 and older		Female, Male; Patients aged 18 or older
Denominator Details	Number of cardiac surgery procedures; A cardiac procedure is determined as a procedure for which at least one of the following is not marked "no" or "missing" (note: full terms for STS field names are provided in brackets []): OpCAB[Coronary Artery Bypass], OpValve[Valve Surgery], VADProc [VAD Implanted or Removed], VSAV [Aortic Valve Procedure], VSMV [Mitral Valve Procedure], OpTricus [Tricuspid Valve Procedure Performed], OpPulm[Pulmonic Valve Procedure Performed], OpOCard [Other Cardiac Procedure other than CABG or Valve], OCarLVA [Left Ventricular Aneurysm Repair], OCarVSD [Ventricular Septal Defect Repair], OCarSVR [Surgical Ventricular Restoration], OCarCong [Congenital Defect Repair], OCarTrma [surgical procedure for an injury due to Cardiac Trauma], OCarCrTx [Cardiac	Report one of the following CPT Category II codes: • CPT II 4041F: Documentation of order for cefazolin OR cefuroxime for antimicrobial prophylaxis. Note: CPT Category II Code 4041F is provided for antibiotic ordered or antibiotic given. Report CPT Category II Code 4041F if cefazolin OR cefuroxime was given for antimicrobial prophylaxis. Denominator (Eligible Population): All surgical patients aged 18 years and older undergoing procedures with the indications for a first or second generation cephalosporin prophylactic antibiotic • CPT Procedure Codes: Integumentary: 15734, 15738, 19260, 19271, 19272, 19301-19307, 19361, 19364, 19366-19369 Spine: 22325, 22612, 22630, 22800, 22802, 22804, 63030, 63042 Hip Reconstruction: 27125, 27130, 27132, 27134, 27137, 27138 Trauma (Fractures): 27235, 27236,	Data Elements: Anesthesia End Date Anesthesia End Time Anesthesia Start Date Admission Date Antibiotic Administration Date Antibiotic Administration Time Antibiotic Received Birthdate Clinical Trial Discharge Date ICD-9-CM Principal Diagnosis Code ICD-9-CM Principal Procedure Code Infection Prior to Anesthesia Laparoscope Perioperative Death Surgical Incision Date Surgical Incision Time

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE

NQF MEMBER comments due October 26, 20116:00 PM ET; PUBLIC comments due October 19, 2011 6:00 PM ET

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	Ŭ I
Transplant], OCarACD	27244, 27245, 27758, 27759, 27766,	
[Arrhythmia Correction	27792, 27814	
Surgery],	Knee Reconstruction: 27440-	
OCAoProcType[Aortic	27443, 27445-27447	
Procedure Type], EndoProc	Vascular: 33877, 33880, 33881,	
[Endovascular Procedure	33883, 33886, 33891, 34800, 34802-	
(TEVAR)], OCTumor [resection	34805, 34825, 34830-34832, 34900,	
of an intracardiac tumor],	35081, 35091, 35102, 35131, 35141,	
OCPulThromDis [Pulmonary	35151, 35601, 35606, 35612, 35616,	
Thromboembolectomy,,	35621, 35623, 35626, 35631, 35636-	
OCarOthr [Other Cardiac	35638, 35642, 35645-35647, 35650,	
Procedure other than those	35651, 35654, 35656, 35661, 35663,	
listed previously], ECMO	35665, 35666, 35671, 36830	
[Extracorporeal Membrane	Spleen and Lymph Nodes: 38115	
Oxygenation], OCarLasr [-	Esophagus: 43045, 43100, 43101,	
Transmyocardial Laser	43107, 43108, 43112, 43113, 43116-	
Revascularization], OCarASD	43118, 43121-43124, 43130, 43135,	
[Atrial Septal Defect Repair],	43300, 43305, 43310, 43312, 43313,	
OCarAFibSur [Atrial	43320, 43324-43326, 43330, 43331,	
Fibrillation Surgical Procedure]	43340, 43341, 43350, 43351, 43352,	
	43360, 43361, 43400, 43401, 43405,	
	43410, 43415, 43420, 43425, 43496	
	Stomach: 43500-43502, 43510,	
	43520, 43600, 43605, 43610, 43611,	
	43620-43622, 43631-43634, 43640,	
	43641, 43653, 43800, 43810, 43820,	
	43825, 43830-43832, 43840, 43842,	
	43843, 43845-43848, 43850, 43855,	
	43860, 43865, 43870	
	Small Intestine: 44005, 44010,	
	44020, 44021, 44050, 44055, 44100,	
	44120, 44125-44127, 44130, 44132,	
	44133, 44135, 44136	
	Biliary Surgery: 47420, 47425,	
	47460, 47480, 47560, 47561, 47570,	
	47600, 47605, 47610, 47612, 47620,	
	47700, 47701, 47711, 47712, 47715,	
	47719-47721, 47740, 47741, 47760,	
	47765, 47780, 47785, 47800, 47802,	
	47900	
	Pancreas: 48020, 48100, 48120,	
	48140, 48145, 48146, 48148, 48150,	
	48152-48155, 48160, 48500, 48510,	
	48511, 48520, 48540, 48545, 48547,	
	48548, 48550, 48554, 48556	
	Abdomen, Peritoneum, and	
	Omentum: 49215, 49568	
	Kenal Transplant: 50300, 50320,	

	Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
	Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
	prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
	patients	generation cephalosporin	
		50340, 50360, 50365, 50370, 50380	
		Neurological Surgery: 22524,	
		22554, 22558, 22600, 22612, 22630,	
		35301, 61154, 61312, 61313, 61315,	
		61510, 61512, 61518, 61548, 61697,	
		61700, 61750, 61751, 61867, 62223,	
		62230, 63015, 63020, 63030, 63042,	
		63045, 63047, 63056, 63075, 63081,	
		63267, 63276	
		Cardiothoracic Surgery: 33120,	
		33130, 33140, 33141, 33202, 33250,	
		33251, 33256, 33261, 33305, 33315,	
		33321, 33322, 33332, 33335, 33400,	
		33401, 33403-33406, 33410, 33411,	
		33413, 33416, 33422, 33425-33427,	
		33430, 33460, 33463-33465, 33475,	
		33496, 33510-33519, 33521-33523,	
		33530, 33533-33536, 33542, 33545,	
		33548, 33572, 35211, 35241, 35271	
		General Thoracic Surgery: 19272,	
		21627, 21632, 21740, 21750, 21805,	
		21825, 31760, 31766, 31770, 31775,	
		31786, 31805, 32095, 32100, 32110,	
		32120, 32124, 32140, 32141, 32150,	
		32215, 32220, 32225, 32310, 32320,	
		32402, 32440, 32442, 32445, 32480,	
		32482, 32484, 32486, 32488, 32491,	
		32500, 32501, 32800, 32810, 32815,	
		32900, 32905, 32906, 32940, 33020,	
		33025, 33030, 33031, 33050, 33300,	
		33310, 33320, 34051, 35021, 35216,	
		35246, 35276, 35311, 35481, 35526,	
		37616, 38381, 38746, 38747, 39000,	
		39010, 39200, 39220, 39545, 39561,	
		60321, 60322, 64746	
		77704 27870 28102 28103 28203	
		27704, 27070, 20192, 20193, 20293, 28296, 28299, 28307	
		28290, 28299, 28300, 28300, 28307,	
		28308, 28309, 28310, 28320, 28322, 28322, 28415, 28420, 28445, 28465, 28485	
		28505 28525 28531 28555 28585	
		28615 28645 28675 28705 28715	
		28725 28730 28735 28737 28740	
		28750 28755 28760	
Fyclusions	Exclusions include:	Documentation of modical	Excluded Populations:
LACIUSIONS	- Patients who had a principal	reason(s) for not ordering	Patients less than 18 years of age
	diagnosis suggestive of	cefazolin OR cefuroxime for	Patients who have a length of
	preoperative infectious	antimicrobial prophylaxis	Stav greater than 120 days
	rr	······	

	Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
	Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
	prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
	patients	generation cephalosporin	
	diseases		Patients who had a principal
	- Patients whose ICD-9-CM		diagnosis suggestive of
	principal procedure was		preoperative infectious diseases
	performed entirely by		(as defined in Appendix A, Table
	Laparoscope		5.09 for ICD-9-CM codes)
	 Patients enrolled in clinical 		Patients whose ICD-9-CM
	trials		principal procedure was
	- Patients with documented		performed entirely by
	infection prior to surgical		Laparoscope
	procedure of interest		Patients enrolled in clinical trials
	- Patients who expired		Patients whose ICD-9-CM
	perioperatively		principal procedure occurred
	- Patients who were receiving		prior to the date of admission
	antibiotics more than 24 hours		Patients with
	Prior to surgery		physician/advanced practice
	- Patients who were receiving		nurse/physician assistant
	antibiotics within 24 nours		(physician/APIN/PA)
	Patients who did not receive		surgical procedure of interest
	any antibiotics before or during		Patients who expired
	surgery or within 24 hours		perioperatively
	after anesthesia end time (i e		Patients who were receiving
	patient did not receive		antibiotics more than 24 hours
	prophylactic antibiotics)		prior to surgery (except colon
	- Patients who did not receive		surgery patients taking oral
	any antibiotics during this		prophylactic antibiotics)
	hospitalization		Patients who were receiving
	This list will be provided in the		antibiotics within 24 hours prior
	STS Adult Cardiac Surgery		to arrival (except colon surgery
	Database Data Manager's		patients taking oral prophylactic
	Training Manual as acceptable		antibiotics)
	exclusions.		Patients who did not receive any
			antibiotics before or during
	AbxSelect is marked		surgery, or within 24 hours after
	"Exclusion"		Anesthesia End Time (i.e., patient
			did not receive prophylactic
			antibiotics)
			Patients who did not receive any
			antibiotics during this
	0 1		hospitalization
Exclusion	See above	Append modifier to CPT	Data Elements:
Details		Category II code: 4041F-1P	Birthdate
			Clinical Trial
			ICD-9-CM Principal Diagnosis
			Lode
			Laparoscope
			Laparoscope Porioporativo Doath
1			i enoperative Death

	Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
	Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
	prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
	patients	generation cephalosporin	
Risk Adjustment	No risk adjustment necessary	No risk adjustment necessary	No risk adjustment necessary
Stratification	N/A		The antibiotic prophylaxis
Strutification	1 1 / 2 1		measures are stratified according
			to surgery type. The tables are
			subsets of Table 5.10 (see link for
			Specification Manual and
			Appendix A. Tables 5.01 to 5.08.
			The specific procedures must be
			in the large table (Table 5.10) to
			be eligible for the SCIP measures.
			The measure specific tables for
			SCIP-Inf-2 are 5.01 to 5.08.
Type Score	Rate/proportion		Rate/proportion
Algorithm	N/A		1. Start processing. Run cases
0	,		that are included in the Surgical
			Care Improvement Project (SCIP)
			Initial Patient Population and
			pass the edits defined in the
			Transmission Data Processing
			Flow: Clinical through this
			measure.
			2. Calculate Patient Age. The
			Patient Age, in years, is equal to
			the Admission Date minus the
			Birthdate. Use the month and day
			portion of admission date and
			birthdate to yield the most
			accurate age.
			3. Check Patient Age
			a. If Patient Age is less than 18
			years, the case will proceed to a
			Measure Category Assignment of
			B and will not be in the Measure
			Population. Stop processing for
			Centers for Medicare and
			Medicaid Services (CMS).
			Proceed to step 57 and check the
			Stratified Measures for Overall
			Kate (SCIP-Int-2a) for The Joint
			Commission.
			D. II Patient Age is greater than or
			equal to 18 years, continue
			CM Bring and proceed to ICD-9-
			4. Charle ICD 0. CM Bringing 1
			4. CHECK ICD-9-CIVI Principal
			a If the ICD 0 CM Drive in al
1			a. II UIE ICD-9-CIVI FTINCIPAI

	Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
	Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
	prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
	patients	generation cephalosporin	
	Maintenance Measure 0126: Selection of antibiotic prophylaxis for cardiac surgery patients	Endorsed Measure 0268: Selection of prophylactic antibiotic: First or second generation cephalosporin	Maintenance Measure 0528: Prophylactic antibiotic selection for surgical patients Procedure Code is not on Table 5.01 or 5.02 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.08, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the ICD-9-CM Principal Procedure Code is on Table 5.01 or 5.02 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.08, continue processing and proceed to recheck ICD-9-CM Principal Diagnosis Code. 5. Check ICD-9-CM Principal Diagnosis Code a. If the ICD-9-CM Principal Diagnosis Code is on Table 5.09, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the ICD-9-CM Principal Diagnosis Code is on Table 5.09, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the ICD-9-CM Principal Diagnosis Code is not on Table 5.09, continue processing and proceed to Laparoscope. 6.Check Laparoscope a. If Laparoscope is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and
			for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The
			Joint Commission. b. If Laparoscope equals 1 or 3, the case will proceed to a
			Measure Category Assignment of B and will not be in the Measure
1			Propulation. Stop processing for

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
		CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. c. If Laparoscope equals 2, continue processing and proceed
		to Clinical Trial. 7. Check Clinical Trial a. If Clinical Trial is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Pressed to step 57 and
		check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If Clinical Trial equals Yes, the case will proceed to a Measure Category Assignment of B and
		will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for
		Overall Rate (SCIP-Inf-2a) for The Joint Commission. c. If Clinical Trial equals No,
		continue processing and proceed to Anesthesia Start Date. 8. Check Anesthesia Start Date
		a. If the Anesthesia Start Date is missing, the case will proceed to a Measure Category Assignment of
		X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified
		Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission. b. If the Anesthesia Start Date
		equals Unable To Determine, the case will proceed to a Measure Category Assignment of D and will be in the Measure
		Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for
		Overall Rate (SCIP-Inf-2a) for The Joint Commission. c. If Anesthesia Start Date equals

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
Maintenance Measure 0126: Selection of antibiotic prophylaxis for cardiac surgery patients	Endorsed Measure 0268: Selection of prophylactic antibiotic: First or second generation cephalosporin	Maintenance Measure 0528: Prophylactic antibiotic selection for surgical patients a Non Unable To Determine Value, continue processing and proceed to the Surgery Days calculation. 9.Calculate Surgery Days. Surgery Days, in days, is equal to the Anesthesia Start Date minus the Admission Date. 10.Check Surgery Days a. If the Surgery Days is less than zero, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the Surgery Days is greater than or equal to zero, continue processing and proceed to Infection Prior to Anesthesia. 11. Check Infection Prior to Anesthesia a. If Infection Prior to Anesthesia is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If Infection Prior to Anesthesia is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If Infection Prior to Anesthesia equals Yes, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to
		processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission. c. If Infection Prior to Anesthesia equals No, continue processing
		and proceed to Perioperative Death. 12. Check Perioperative Death a. If Perioperative Death is

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
		missing, the case will proceed to a
		Measure Category Assignment of
		X and will be rejected. Stop
		processing for CMS.
		Proceed to step 57 and check the
		Stratified Measures for Overall
		Rate (SCIP-Inf-2a) for The Joint
		Commission.
		b. If Perioperative Death equals
		Yes, the case will proceed to a
		Measure Category Assignment of
		B and will not be in the Measure
		Population. Stop processing for
		CMS. Proceed to step 57 and
		check the Stratified Measures for
		Overall Rate (SCIP-Inf-2a) for The
		Joint Commission.
		c. If Perioperative Death equals
		no, continue processing and
		13 Check Surgical Incision Date.
		a. If the Surgical Incision Date is
		missing the case will proceed to a
		Measure Category Assignment of
		X and will be rejected. Stop
		processing for CMS. Proceed to
		step 57 and check the Stratified
		Measures for Overall Rate (SCIP-
		Inf-2a) for The Joint Commission.
		b. If the Surgical Incision Date
		equals Unable To Determine, the
		case will proceed to a Measure
		Category Assignment of D and
		will be in the Measure
		Population. Stop processing for
		CMS. Proceed to step 57 and
		check the Stratified Measures for
		Overall Rate (SCIP-Inf-2a) for The
		Joint Commission.
		c. If Surgical Incision Date equals
		a INON UNABLE TO Determine
		value, continue processing and
		14 Check Antibiotic Received.
		a If Antibiotic Received aquals 1
		or 2 continuo processing and
		proceed to recheck ICD-9-CM
		Principal Procedure Code

Selection of antibiotic prophylaxis for cardiac surgery patients Selection of prophylactic antibiotic: First or scored generation cephalosporin Prophylactic antibiotic selectic for surgical patients b. If Antibiotic Received equal the case will proceed to a Measure Category Assignmen Overall Rate (SCIP-Int-2a) for Joint Commission. b. If Antibiotic Received equal the Measure Category Assignmen Overall Rate (SCIP-Int-2a) for Joint Commission. c. If Antibiotic Received equal continue processing and proce to step 18 and check Antibiotic Name. Do not check ICD-9CD Principal Procedure Code only if Antibio Name. Do not check ICD-9CD Principal Procedure Code is not on Tabi 5.03, the case will proceed to a Measure Category Assignmen B and will not be in the Measure Coverall Rate (SCIP-Inf-2a) for Antibiotics or Antibiotic Received. 15. Recheck (ICD-9CM Principal Procedure Code is not on Tabi 5.03, the case will proceed to a Measure Category Assignmen B and will not be in the Measure Coveral Rate (SCIP-Inf-2a) for Joint Commission. b. If the ICD-9CM Principal Procedure Code is not Tabi 5.05. Proceed to 120 - SCIP Principal Procedure Code is not antab 5.03, the case will proceed to a Measure Category Assignmen X and will be rigeted. Stop Proceedire Code and Antibiotics a. If Oral Antibiotics equals N the case will proceed to a Measure Category Assignmen X and will be rigeted. Stop Proceedire Code is not Commission. 16. The Category Assignment X and will be rigeted. Stop Proceedire Category Assignment X and Will be rigeted. Stop Proceedit N a Measure Category Assignment X and Will be rigeted. Stop Y	Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
prophylaxis for cardiac surgery patients antibiotic: lirist or second generation cephalosporin for surgical patients b. If Antibiotic Received equal the case will proceed to a Moasure Category Assignmer B and will not be in the Meass Population. Stop processing A CMS. Proceed to step 57 and check the Stratified Measures Overall Rate (SCIP-Inf-2a) for Joint Commission. c. If Antibiotic Received equal commune processing and proce to step 18 and check Antibiotic Name. Do not check ICD-9-CM Principal Procedure Code, OV Principal Procedure Code, OV Principal Procedure Code, OV Principal Proceed to a step 53 and the CID-9-CM Principal Procedure Code only if Anthbi Received equals 1 or 2 a. If the ICD-9-CM Principal Procedure Code is not on Tab 5:03, the case will proceed to a Measure Category Assignmer B and will not be in the Meass Population. Stop stop stign Overall Rate (SCIP-Inf-2a) for Joint Commission. b. If Antibiotics is missing the case will proceed to a Measure Category Assignmer B and will not be in the Meass Population. Stop processing and CMS. Procedure Code is no Table 5: continue processing and check the Stratified Measures Population is the Stratified Measures Population is the Stratified Measures Procedure Code on a Table 5: continue processing and proce to check Coral Antibiotics a. If Oral Antibiotics is missing the case will proceed to a Measure Category Assignmer X and will be rejected. Stop processing for CMS. Proceed I step 57 and check the Stratified Measures Proveation and will not be in the Meass Population. Stop processing for CMS. Proceed to a Measure Category Assignmer X and will not be in the Meass Population. Stop processing for CMS. Proceed to a Measure Category Assignmer B and will not be in the Meass Population. Stop processing for CMS. Proceed to a Measure Category Assignmer B and will not be in the Meass Population. Stop processing for CM	Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
patients generation cephalosporin b. If Antibiotic Received qual the case will proceed to a Measure Category Assignmer B and will not be in the Meass Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures Overall Rate (SCIP-Inf-2a) for joint Commission. c. If Antibiotic Received equal continue processing and proce to step 18 and check Antibiotic Name. Do not check (ED-9-CM) Princip Procedure Code only if Antibiotic Received. a. If the ICD-9-CM Princip Procedure Code and if if the Case will proceed to a Measure Category Assignmer B and will not be in the Meass Population. Stop processing of CMS. Proceed to step 57 and check the Stratified Measures Overall Rate (SCIP-Inf-2a) for Joint Commission. b. If the ICD-9-CM Princip Procedure Code is not on Tabl 500, the case will proceed to a Measure Category Assignmer B and will not be in the Meass Population. Stop processing of CMS. Proceed to step 57 and check the Stratified Measures Overall Rate (SCIP-Inf-2a) for Joint Commission. b. If the ICD-9-CM Princip Proceedure Code is on Table 5. continue processing and proce to check Oral Antibiotics a. If Oral Antibiotics b. If Oral Antibiotics a. If Oral Antibiotics a. If Oral Antibiotics a. If Oral Antibiotics b. If Oral Antibiotics a. If Oral Antibiotics b. If Oral Antibiotics a. If Oral Antibiotics a. If Oral Antibiotics b. If Oral Antibiotics b. If Oral Antibiotics a. If Oral Antibiotics a. If Oral Antibiotics b. If Oral Anthibiotics capals N the case will proceed to a Measure	prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
 b. If Antibiotic Received equal the case will proceed to a Measure Category Assignmer B and will not be in the Meass Population. Stop Proceeding G CMS, Proceed to step 57 and check the Stratified Measures Overall Rate (SCIP-Inf-2a) for joint Commission. c. If Antibiotic Received equal continue processing and proce to step 18 and check Antibiotic Name. Do not check ICD-9-CD Principal Procedure Code, Or Antibiotics or Antibiotic Received. 15.Recheck ICD-9-CM Principal Procedure Code only if Antibi Received equals 1 or 2 a. If the ICD-9-CM Principal Procedure Code only if Antibi Received equals 1 or 2 a. If the ICD-9-CM Principal Procedure Code only if Matibi Received equals 1 or 2 a. If the ICD-9-CM Principal Procedure Code is not on Tab 5.03, the case will proceed to a Measure Category Assignmer B and will not be in the Measa Population. Stop processing of CMS. Proceed to step 57 and check the Stratified Measures Overall Rate (SCIP-Inf-2a) for Joint Commission. b. If the ICD-9-CM Principal Procedure Code is on Table 5. continue processing and proce to check Cral Antibiotics a. If Oral Antibiotics is missing the case will proceed to a Measure Category Assignmer X and will be rejected. Stop Processing for CMS. Proceed Inf-2a) for The Joint Commission. b. If the ICD-9-CM Principal Processing and proce X and will be rejected. Stop Processing for CMS. Proceed Inf-2a) for The Joint Commission. b. If Oral Antibiotics is missing the case will proceed to a Measure Category Assignmer X and will not be in the Measa Population. Stop processing for Measure Category Assignmer X and will not be in the Measa Population. Stop processing for Measure Category Assignmer X and will not be in the Measa Population. Stop processing for Measure Category Assignmer B and will not be in the Measa Population. Stop processing for Commission. 	patients	generation cephalosporin	
Measures for Overall Rate (SC Inf-2a) for The Joint Commissi b. If Oral Antibiotics equals N the case will proceed to a Measure Category Assignmen B and will not be in the Measu Population. Stop processing for	prophylaxis for cardiac surgery patients	antibiotic: First or second generation cephalosporin	for surgical patients b. If Antibiotic Received equals 4, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. c. If Antibiotic Received equals 3, continue processing and proceed to step 18 and check Antibiotic Name. Do not check ICD-9-CM Principal Procedure Code, Oral Antibiotics or Antibiotic Received. 15.Recheck ICD-9-CM Principal Procedure Code only if Antibiotic Received equals 1 or 2 a. If the ICD-9-CM Principal Procedure Code is not on Table 5.03, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the ICD-9-CM Principal Procedure Code is on Table 5.03, continue processing and proceed to check Oral Antibiotics a. If Oral Antibiotics is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified
Measure Category Assignmen B and will not be in the Measur Population. Stop processing for			Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission. b. If Oral Antibiotics equals No, the case will proceed to a
			Measure Category Assignment of B and will not be in the Measure Population. Stop processing for

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
Selection of antibiotic prophylaxis for cardiac surgery patients	Selection of prophylactic antibiotic: First or second generation cephalosporin	Prophylactic antibiotic selection for surgical patients check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. c. If Oral Antibiotics equals Yes, continue processing and proceed to recheck Antibiotic Received a. If Antibiotic Received equals 1, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If Antibiotic Received equals 2, continue processing and proceed to Antibiotic Name. 18.Check Antibiotic Grid is not populated, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. D Diff Commission. D Diff Commission. D Diff Antibiotic Grid is not populated, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. Note: The front-end edits reject cases containing invalid data and/or an incomplete Antibiotic Grid requires
		all data elements in the row to contain either a valid value and/or Unable to Determine.
		Table 2.1, continue processing and proceed to Antibiotic Administration Route
		19. Check Antibiotic Administration Route a. If the Antibiotic Administration
		Route is equal to 3 or 10 for all antibiotic doses, the case will proceed to a Measure Category
		Assignment of B and will not be in the Measure Population. Stop

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
		processing for CMS. Proceed to
		step 57 and check the Stratified
		Measures for Overall Rate (SCIP-
		Inf-2a) for The Joint Commission.
		b. If the Antibiotic Administration
		Route is equal to 1 or 2 for any
		antibiotic dose, continue
		processing and proceed to
		Antibiotic Administration Date.
		Proceed only with antibiotic
		doses on Table 2.1 that are
		administered via routes 1 or 2.
		20. Check Antibiotic
		Administration Date
		a. If the Antibiotic Administration
		Date is equal to Unable to
		the case will proceed to a
		Measure Category Assignment of
		D and will be in the Measure
		Population Stop processing for
		CMS. Proceed to step 57 and
		check the Stratified Measures for
		Overall Rate (SCIP-Inf-2a) for The
		Joint Commission.
		b. If the Antibiotic Administration
		Date is equal to a Non Unable to
		Determine date for at least one
		antibiotic dose, continue
		processing and proceed to the
		Antibiotic Days I calculation.
		Note: Proceed only with
		antibiotic doses that have an
		associated Non Unable to
		Determine date.
		21. Calculate Antibiotic Days I.
		Antibiotic Days I, in days, is
		equal to the Surgical Incision
		Date minus the Antibiotic
		22 Chock Antibiotic Dave I
		22. Check Antibiotic Days I
		a. If the Allocate Days 1 is greater than 1 for at least one
		antibiotic dose continue
		processing and recheck the ICD-
		9-CM Principal Procedure Code
		Do not recheck step 25 Antibiotic
		Days I, step 26 Surgical Incision

Selection of antibiotic prophylaxis for cardiac surgery patients Selection of prophylactic antibiotic: First or second generation cephalosporin Prophylactic antibiotic selection for surgical patients Time, step 27 Antibiotic Administration Time, or step 29 Antibiotic Timing I. Time, step 27 Antibiotic daministration Time, or step 29 Antibiotic Timing I. b. If the Antibiotic Days I is less than or equal to 1 for all antibiotic doses, continue processing, Proceed to step 25 and recheck (CD-9-CM Principal Procedure Code only if the Antibiotics Days was greater than 1 for at least ore antibiotic dose a. If the ICD-9-CM Principal Procedure Code is not Table 5.03, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the ICD-9-CM Principal Procedure Code is on Table 5.03, continue processing and check Oral Antibiotics. 24.ChecC Oral Antibiotics 24.Check Oral Antibiotics 24.Check Oral Antibiotics	Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
prophylaxis for cardiac surgery patients antibiotic: First or second generation cephalosporin for surgical patients Time, step 27 Antibiotic Antibiotic Timing I. Time, step 27 Antibiotic Antibiotic Days I is less than or equal to 1 for all antibiotic doses, continue processing. Proceed to step 25 and recheck Antibiotics Days I. Do not recheck ICD-9-CM Principal Procedure Code or Oral Antibiotics. 23. Recheck ICD-9-CM Principal Procedure Code is not on Table 5.03, the case will proceed to a Measure Category Assignment of Newsure Step 27 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. Joint Commission. Joint Commission. Joint Commission. Joint Co	Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
patients generation cephalosporin Time, step 27 Antibiotic Administration Time, or step 29 Antibiotic Timing I Administration Time, or step 29 Antibiotic Timing I b. If the Antibiotic Days I is less than or equal to 1 for all antibiotic doses, continue processing, Proceed to step 25 and recheck Antibiotics Days I. Do not recheck ICD-9-CM Principal Procedure Code or Oral Antibiotics. 23. Recheck ICD-9-CM Principal Procedure Code or Oral Antibiotic dose a, If the ICD-9-CM Principal Procedure Code is not or Table 5.03, the case will proceed to a Measure Category Assignment of B and will not be in the Measures Population. Stop processing for CMS. Procedure Strifted Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the ICD-9-CM Principal Procedure Code is on Table 5.03, the case will proceed to a Measure for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the ICD-9-CM Principal Procedure Code is on Table 5.03, continue processing for CMS. Proceed to set 57 and check the Straftic dMeasures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the ICD-9-CM Principal Procedure Code is on Table 5.03, continue processing and check Oral Antibiotics. 24.Check Oral Antibiotics 25.7 26.7 27.8 28.8 29.9 20.1 20.1 20.1 20.1 20.1 20.1 <	prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
Time, step 27 Antibiotic Administration Time, or step 29 Antibiotic Timing I. b. If the Antibiotic Days I is less than or equal to 1 for all antibiotic does, continue processing, Proceed to step 25 and recheck Antibiotics Days I. Do not recheck ICD9-CM Principal Procedure Code or Oral Antibiotics. 23. Recheck ICD-9-CM Principal Procedure Code only if the Antibiotics Days was greater than 1 for at least one antibiotic dose a. If the ICD-9-CM Principal Procedure Code only if the Antibiotics Days was greater than 1 for at least one antibiotic dose a. If the ICD-9-CM Principal Procedure Code is not on Table 5.03, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the ICD-9-CM Principal Procedure Code is on Table 5.03, continue processing for Cores on Table 5.03, continue processing an check	patients	generation cephalosporin	
step 57 and check the Stratified Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission. b. If Oral Antibiotics equals No, the case will proceed to a Measure Category Assignment of	Maintenance Measure 0126: Selection of antibiotic prophylaxis for cardiac surgery patients	Endorsed Measure 0268: Selection of prophylactic antibiotic: First or second generation cephalosporin	Maintenance Measure 0528: Prophylactic antibiotic selection for surgical patients Time, step 27 Antibiotic Administration Time, or step 29 Antibiotic Timing I. b. If the Antibiotic Days I is less than or equal to 1 for all antibiotic doses, continue processing. Proceed to step 25 and recheck Antibiotics Days I. Do not recheck ICD-9-CM Principal Procedure Code or Oral Antibiotics. 23. Recheck ICD-9-CM Principal Procedure Code only if the Antibiotics Days was greater than 1 for at least one antibiotic dose a. If the ICD-9-CM Principal Procedure Code is not on Table 5.03, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the ICD-9-CM Principal Procedure Code is on Table 5.03, continue processing and check Oral Antibiotics. 24.Check Oral Antibiotics a. If Oral Antibiotics is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission. b. If Oral Antibiotics equals No, the case will proceed to a Measure Stop Overall Rate (SCIP- Inf-2a) for The Joint Commission. b. If Oral Antibiotics equals No, the case will proceed to a Measure Category Assignment of
XAVIDA FIXAAAA I IO AU D AL AINI			check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. c. If Oral Antibiotics equals Yes, continue processing. Proceed to

	Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
	Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
	prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
	patients	generation cephalosporin	
			step 33 and check Anesthesia End
			Date. Do not recheck step 25
			Antibiotic Days I, step 26 Surgical
			Incision Time, step 27 Antibiotic
			Administration Time, or step 29
			Antibiotic Timing I.
			25.Recheck Antibiotic Days I only
			if Antibiotic Days I is less than or
			equal to 1 for all antibiotic doses
			a. If the Antibiotic Days I is less
			than or equal to zero for all
			antibiotic doses, continue
			processing. Proceed to step 33
			and check Anesthesia End Date.
			Do not check step 26 Surgical
			Incision Time, step 27 Antibiotic
			Administration Time, or step 29
			h If the Antibiotic Dave Lie equal
			to 1 for ANY antibiotic dose
			continue processing and proceed
			to Surgical Incision Time
			26 Check Surgical Incision Time
			a If the Surgical Incision Time is
			missing, the case will proceed to a
			Measure Category Assignment of
			X and will be rejected. Stop
			processing for CMS. Proceed to
			step 57 and check the Stratified
			Measures for Overall Rate (SCIP-
			Inf-2a) for The Joint Commission.
			b. If the Surgical Incision Time is
			equal to Unable to Determine, the
			case will proceed to a Measure
			Category Assignment of D and
			will be in the Measure
			Population. Stop processing for
			CMS. Proceed to step 57 and
			check the Stratified Measures for
			Overall Kate (SCIP-Int-2a) for The
			Joint Commission.
			c. II the Surgical Incision 1 lime is
			Determine Value continue
			processing and check Antibiotic
			Administration Time
			27 Check Aptibiotic
1	1		

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
Selection of antibiotic prophylaxis for cardiac surgery patients	Selection of prophylactic antibiotic: First or second generation cephalosporin	Prophylactic antibiotic selection for surgical patients a. If the Antibiotic Administration Time equals Unable to Determine for all antibiotic doses, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the Antibiotic Administration Time equals a Non Unable to Determine time for at least one antibiotic dose, continue processing and recheck Antibiotic Administration Time. 28.Recheck Antibiotic Administration Time a. If the Antibiotic Administration Time equals Unable to Determine for ANY antibiotic dose with Antibiotic Days equal to 1, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the Antibiotic Administration Time equals a Non Unable to Determine time for All antibiotic doses with Antibiotic Days equal to 1, continue processing and proceed to the Antibiotic Timing I Antibiotic Timing I, in minutes, is equal to the Surgical Incision
		Date and Surgical Incision Time minus the Antibiotic Administration Date and
		Antibiotic Administration Time. Calculate Antibiotic Timing I for all antibiotic doses with Non
		Unable to Determine date and

N	Aaintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Se	election of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
p:	prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
p	patients	generation cephalosporin	0
			time. Proceed with antibiotic
			doses that have Antibiotic Timing
			I calculated, or Antibiotic Days I
			less than or equal to zero.
			30.Check Antibiotic Timing I
			a. If the Antibiotic Timing I is
			greater than 1440 minutes for any
			antibiotic dose, continue
			processing and recheck the ICD-
			9-CM Principal Procedure Code.
			Proceed with antibiotic doses that
			have Antibiotic Timing I
			calculated, or Antibiotic Days I
			less than or equal to zero.
			b. If the Antibiotic Timing I is less
			than or equal to 1440 minutes for
			all antibiotic doses with non
			Unable to Determine date and
			time, continue processing and
			proceed to step 33 and check
			Anesthesia End Date. Proceed
			with antibiotic doses that have
			Antibiotic Timing I calculated, or
			Antibiotic Days I less than or
			equal to zero. Do not recheck
			ICD-9-CM Principal Procedure
			Code or Oral Antibiotics.
			31.Recheck ICD-9-CM Principal
			Procedure Code only if Antibiotic
			Timing I is greater than 1440 for
			any antibiotic dose
			a. If the ICD-9-CM Principal
			Procedure Code is not on Table
			5.03, the case will proceed to a
			Measure Category Assignment of
			B and will not be in the Measure
			CMC Bussed to step 57 and
			CMS. Proceed to step 57 and
			Overall Rate (CCID Inf 2a) for The
			Loint Commission
			b If the ICD 9 CM Principal
			Procedure Code is on Table 5.02
			continue processing and check
			Oral Antibiotics
			32 Check Oral Antibiotics
			a If Oral Antibiotics is missing
			the case will proceed to a
	Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
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	Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
	prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
	patients	generation cephalosporin	U I
			Measure Category Assignment of
			X and will be rejected. Stop
			processing for CMS. Proceed to
			step 57 and check the Stratified
			Measures for Overall Rate (SCIP-
			Inf-2a) for The Joint Commission.
			b. If Oral Antibiotics equals No,
			the case will proceed to a
			Measure Category Assignment of
			B and will not be in the Measure
			Population. Stop processing for
			CMS. Proceed to step 57 and
			check the Stratified Measures for
			Overall Rate (SCIP-Inf-2a) for The
			Joint Commission.
			c. If Oral Antibiotics equals Yes,
			continue processing and proceed
			to Anesthesia End Date.
			33.Check Anesthesia End Date
			a. If the Anesthesia End Date is
			missing, the case will proceed to a
			Measure Category Assignment of
			X and will be rejected. Stop
			processing for CMS. Proceed to
			step 57 and check the Stratified
			Measures for Overall Rate (SCIP-
			Inf-2a) for The Joint Commission.
			b. If the Anesthesia End Date
			equals Unable to Determine, the
			case will proceed to a Measure
			Category Assignment of D and
			will be in the Measure
			Population. Stop processing for
			CMS. Proceed to step 57 and
			Check the Stratified Measures for
			Overall Rate (SCIP-Int-2a) for The
			Joint Commission.
			c. If the Allesthesia End Date
			Determine Value continue
			processing and proceed to the
			Antibiotic Days II calculation
			24 Calculate Antibiotic Days II
			Antibiotic Days II in days is
			equal to the Antibiotic
			Administration Date minus the
			Anesthesia End Date
1			25 Charle Antibiatis David

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
		a. If the Antibiotic Days II is less
		than or equal to zero for all doses
		of all antibiotics, continue
		processing. Proceed to step 41
		and recheck Antibiotic
		Administration Route. Do not
		check step 37 Anesthesia End
		Time, step 38 Antibiotic
		Antihistration Time, or step 39
		h If the Antibiotic Dave II is
		greater than zero for at least one
		dose of any antibiotic continue
		processing and proceed to
		Initialize the Abxday flag.
		36. Initialize Abxday flag.
		Initialize Abxday flag to equal
		?No´ for each antibiotic dose. Set
		Abxday flag to equal 'Yes? for
		each antibiotic dose where
		Antibiotic Days II is less than or
		equal to zero.
		37. Check Anesthesia End Time
		a. If the Anesthesia End Time is
		Measure Category Assignment of
		X and will be rejected. Stop
		processing for CMS. Proceed to
		step 57 and check the Stratified
		Measures for Overall Rate (SCIP-
		Inf-2a) for The Joint Commission.
		b. If the Anesthesia End Time is
		equal to Unable to Determine,
		continue processing and proceed
		to check the Abxday flag.
		1. If the Abxday flag equals No
		normal to a Massure Catagory
		Assignment of D of will be in the
		Measure Population Stop
		processing for CMS. Proceed to
		step 57 and check the Stratified
		Measures for Overall Rate (SCIP-
		Inf-2a) for The Joint Commission.
		2.f the Abxday flag equals Yes for
		ANY dose, continue processing
		and proceed to step 41. Proceed
		only with doses where the

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
Maintenance Measure 0126: Selection of antibiotic prophylaxis for cardiac surgery patients	Endorsed Measure 0268: Selection of prophylactic antibiotic: First or second generation cephalosporin	Maintenance Measure 0528: Prophylactic antibiotic selection for surgical patients Abxflag is equal to Yes. c. If the Anesthesia End Time is equal to a Non Unable to Determine Value, continue processing and recheck Antibiotic Administration Time. 38. Recheck Antibiotic Administration Time a .If the Antibiotic Administration Time equals Unable to Determine for all antibiotic doses, continue processing and proceed to check the Abxday flag. 1. If the Abxday flag equals No for All doses, the case will proceed to a Measure Category Assignment of D of will be in the Measure Population. Stop processing for CMS. Proceed to step 57 and recheck the Stratified Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission. 2. If the Abxday flag equals Yes for ANY dose, continue processing and proceed to step 41 and recheck the Antibiotic Administration Route. Proceed only with doses where the Abxflag is equal to Yes. Do not check Antibiotic Timing II. b. If the Antibiotic Timing II. b. If the Antibiotic Timing II. b. If the Antibiotic Timing II. contermine time for at least one antibiotic dose, continue processing and proceed to the Antibiotic Timing II calculation. Proceed with both UTD and Non- UTD time
		Antibiotic Timing II calculation. Proceed with both UTD and Non- UTD time. 39. Calculate Antibiotic Timing II.
		Antibiotic Timing II, in minutes, is equal to the Antibiotic Administration Date and Antibiotic Administration Time minus Anesthesia End Date and
		Anesthesia End Time. Calculate Antibiotic Timing II for all antibiotic doses with Non Unable to Determine date and time.

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
Selection of antibiotic prophylaxis for cardiac surgery patients	Selection of prophylactic antibiotic: First or second generation cephalosporin	Prophylactic antibiotic selection for surgical patients Proceed with antibiotic doses that have Antibiotic Timing II calculated, or Abxday flag equal to Yes. 40.Check Antibiotic Timing II a. If the Antibiotic Timing II is greater than 1440 minutes for all doses of all Antibiotics with a Non Unable to Determine date and time, continue processing and proceed to check the Abxday Flag. Proceed with antibiotic doses that have Antibiotic Timing II calculated, or Abxday flag equal to Yes. 1. If the Abxday flag equals No for All doses, the case will proceed to a Measure Category Assignment of B of will not be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission. 2. If the Abxday flag equals Yes for ANY dose, continue processing and recheck the Antibiotic Administration Route. Proceed only with doses where the Abxflag is equal to Yes. b. If the Antibiotic Timing II is less than or equal to 1440 minutes for at least one dose of ANY antibiotic, continue processing and proceed to Antibiotic Administration Route. Proceed with antibiotic doses that have Antibiotic Timing II calculated, or Abxday flag equal to Yes. 41.Recheck Antibiotic Administration Route. For each case, proceed ONLY with those artibiotic Administration Route. For each case, proceed ONLY with those
		least one of the following
		less than or equal to 1440 or
		Abxday flag is equal to Yes.
		a. If the Antibiotic Administration

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
		Route equals 1 for all doses of all
		Antibiotics, the case will proceed
		to a Measure Category
		Assignment of D and will be in
		the Measure Population. Stop
		processing for CMS. Proceed to
		step 57 and check the Stratified
		Measures for Overall Rate (SCIP-
		Inf-2a) for The Joint Commission.
		b. If the Antibiotic Administration
		Route equals 2 for any dose of
		any antibiotic, continue
		processing and proceed to
		recheck the ICD-9-CM Principal
		Procedure Code. Note: For each
		case include only those antibiotics
		with route IV for further
		42 Rechards ICD 0 CM Principal
		42. Reclieck ICD-9-CWI Filicipal
		a If the ICD-9-CM Principal
		Procedure Code is on Table 5.03
		continue processing and proceed
		to step 46 and recheck Antibiotic
		Name. Do not recheck to
		determine if ICD-9-CM Principal
		Procedure Code is on Tables 5.01,
		5.02, 5.04, 5.05, 5.06, 5.07, or 5.08
		or if Antibiotic Name is on Table
		3.2.
		b. If the ICD-9-CM Principal
		Procedure Code is on Tables 5.01,
		5.02, 5.04, 5.05, 5.06, 5.07, or 5.08,
		continue processing and proceed
		to recheck ICD-9-CM Principal
		Procedure Code.
		43. Recheck ICD-9-CM Principal
		Procedure Code
		a. If the ICD-9-CM Principal
		Procedure Code is on Table 5.06
		proceed to recheck Antibiotic
		Name
		1 If the Antibiotic Name is on
		Table 3.7 the case will proceed to
		a Measure Category Assignment
		of F and will be in the Numerator
		Population. Stop processing for

	Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
	Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
	prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
	patients	generation cephalosporin	
			CMS. Proceed to step 57 and
			check the Stratified Measures for
			Overall Rate (SCIP-Inf-2a) for The
			Joint Commission.
			2.If the Antibiotic Name is not on
			Table 3.7, continue processing
			and proceed to step 46 and
			recheck Antibiotic Name. Do not
			recheck to determine if ICD-9-CM
			Principal Procedure Code is on
			Tables 5.01, 5.02, 5.04, 5.05, or 5.08
			or if Antibiotic Name is on Table
			3.2.
			b. If the ICD-9-CM Principal
			Procedure Code is on Tables 5.01,
			5.02, 5.04, 5.05, or 5.08, continue
			processing and proceed to
			Proceedaria Code
			44 Pachack ICD 9 CM Principal
			Procedure Code
			a If the ICD-9-CM Principal
			Procedure Code is on Table 5.01
			5.02 or 5.08 continue processing
			and proceed to recheck Antibiotic
			Name.
			1. If the Antibiotic Name is on
			Table 3.1, the case will proceed to
			a Measure Category Assignment
			of E and will be in the Numerator
			Population. Stop processing for
			CMS. Proceed to step 57 and
			check the Stratified Measures for
			Overall Rate (SCIP-Inf-2a) for The
			Joint Commission.
			2. If the Antibiotic Name is not on
			Table 3.1, continue processing
			and proceed to step 46 and
			recheck Antibiotic Name. Do not
			recheck to determine if ICD-9-CM
			Tables 5.04 or 5.05 and 6 Antibiation
			Name is on Table 2.2
			h If the ICD 9 CM Principal
			D. II the ICD-9-CIVI Principal Procedure Code is on Tables 5.04
			or 5.05 continuo processing and
			proceed to recheck Antibiotic
			Name
1	1		

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
Selection of antibiotic prophylaxis for cardiac surgery patients	Selection of prophylactic antibiotic: First or second generation cephalosporin	 45.Recheck Antibiotic selection for surgical patients 45.Recheck Antibiotic Name a. If the Antibiotic Name is on Table 3.2, the case will proceed to a Measure Category Assignment of E and will be in the Numerator Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the Antibiotic Name is not on Table 3.2, continue processing and proceed to recheck Antibiotic Name. 46. Recheck Antibiotic Name is on Table 3.6b, the case will proceed to a Measure Category Assignment of E and will be in the Numerator Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission. b. If the Antibiotic Name is not on Table 3.6b, continue processing and proceed to recheck Antibiotic Name. 47. Recheck Antibiotic Name is on Table 3.5, the case will proceed to a Measure Category Assignment of E and will be in the Numerator Population. Stop processing and proceed to recheck Antibiotic Name. 47. Recheck Antibiotic Name a. If the Antibiotic Name is on Table 3.5, the case will proceed to a Measure Category Assignment of E and will be in the Numerator Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the Antibiotic Name is not on Table 3.5, the case for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the Antibiotic Name is not on Table 3.6 proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the Antibiotic Name is not on Table X at the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If the Antibiotic Name is not on
		b. If the Antibiotic Name is not on Table 3.5, continue processing and proceed to recheck Antibiotic Name.
		48. Recheck Antibiotic Name a. If the Antibiotic Name is on Table 3.2, continue processing and recheck Antibiotic Name.
		1. If the Antibiotic Name is on Table 3.6a, the case will proceed

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	Ŭ I
		to a Measure Category
		Assignment of E and will be in
		the Numerator Population. Stop
		processing for CMS. Proceed to
		step 57 and check the Stratified
		Measures for Overall Rate (SCIP-
		Inf-2a) for The Joint Commission.
		2.If the Antibiotic name is not on
		Table 3.6a, continue processing
		and proceed to recheck ICD-9-
		CM Principal Procedure Code.
		b. If the Antibiotic Name is not on
		Table 3.2, continue processing
		and proceed to recheck ICD-9-
		CM Principal Procedure Code.
		49. Recheck ICD-9-CM Principal
		Procedure Code
		a. If the ICD-9-CM Principal
		Procedure Code is on Table 5.01,
		5.02, 5.04, 5.05, or 5.08, continue
		processing and proceed to
		recheck Antibiotic Name.
		b. If the ICD-9-CM Principal
		Procedure Code is on Tables 5.03,
		5.06 or 5.07, continue processing
		Antibiotic Allergy Do not check
		step 50 and 52 to see if Antibiotic
		Name is on Tables 3.8 or 3.9 ston
		51 Antibiotic Allergy or step 53
		Vancomycin
		50 Recheck Antibiotic Name only
		if the ICD-9-CM Principal
		Procedure Code is on Table 5.01
		5 02 . 5 04 . 5 05. or 5 08
		a. If none of the Antibiotic Names
		are on Table 3.8 and 3.9, the case
		will proceed to a Measure
		Category Assignment of D and
		will be in the Measure
		Population. Stop processing for
		CMS. Proceed to step 57 and
		check the Stratified Measures for
		Overall Rate (SCIP-Inf-2a) for The
		Joint Commission.
		b. If at least one of the Antibiotic
		Names are on Table 3.8 or 3.9,
		continue processing and proceed

Selection of antibiotic prophylaxis for cardiac surgery patients Selection of prophylactic antibiotic: First or second generation cephalosporin Prophylactic antibiotic for surgical patients to Antibiotic Allergy. 51.Check Antibiotic All if at least one of the An Names are on Table 3.8 a. If Antibiotic Allergy the case will proceed to Measure Category Assi X and will be rejected. 9 processing for CMS. Pr step 57 and check the S Measures for Overall R Inf-2a) for The Joint Co b. If Antibiotic Allergy Yes, the case will proce Measure Category Assi E and will be in the Nu Population. Stop proce- CMS. Proceed to step 5 check the Stratified Me Overall Rate (SCIP-Inf- Joint Commission. c. If Antibiotic Allergy or minus and commission.
prophylaxis for cardiac surgery patients antibiotic: First or second generation cephalosporin for surgical patients to Antibiotic Allergy. 51.Check Antibiotic Allergy. 51.Check Antibiotic Allergy. 51.Check Antibiotic Allergy. a. If Antibiotic Allergy. a. If Antibiotic Allergy. the case will proceed to Measure Category Assi X and will be rejected. processing for CMS. Processing for CMS. Proceed to Measures for Overall R Inf-2a) for The Joint Co b. If Antibiotic Allergy Yes, the case will proceed to Measure Category Assi X and will be rejected. Processing for CMS. Proceed to SUB The Joint Co b. If Antibiotic Allergy Yes, the case will proceed to Measure Category Assi B. Mathibiotic Allergy Yes, the case will proceed to Measure Category Assi B. If Antibiotic Allergy Yes, the case will proceed to Measure Category Assi B. Mathibiotic Allergy Yes, the case will proceed to SUB The Joint Co B. If Antibiotic Allergy Yes, the case will proceed to SUB The Joint Co B. Mathibiotic Allergy Yes, the case will proceed to SUB The Joint Co B. If Antibiotic Allergy Yes, the case will proceed to SUB The Joint Co B. Mathibiotic Allergy Yes, the case the SUB The Joint Co B. If Antibiotic Allergy Yes, the Category Assi B. Mathibiotic Allergy Yes, the case to SUB The Joint Co B. If Antibiotic Allergy Yes, the Category Assi B. Mathibiotic Allergy Yes, the case to SU
patients generation cephalosporin to Antibiotic Allergy. 51.Check Antibiotic All if at least one of the An Names are on Table 3.8 a. If Antibiotic Allergy the case will proceed to Measure Category Assi X and will be rejected.9 processing for CMS. Pr step 57 and check the S Measures for Overall R Inf-2a) for The Joint Co b. If Antibiotic Allergy Yes, the case will proceed will be rejected.9 Step 57 and check the S Measures for Overall R Inf-2a) for The Joint Co b. If Antibiotic Allergy Yes, the case will proceed Measure Category Assi E and will be in the Nu Population. Stop proceed CMS. Proceed to step 5 check the Stratified Me Overall Rate (SCIP-Inf-Joint Commission. c. If Antibiotic Allergy Commission. c. If Antibiotic Allergy Stratified Me
to Antibiotic Allergy. 51.Check Antibiotic All if at least one of the An Names are on Table 3.8 a. If Antibiotic Allergy the case will proceed to Measure Category Assi X and will be rejected. 9 processing for CMS. Pr step 57 and check the S Measures for Overall R Inf-2a) for The Joint Co b. If Antibiotic Allergy Yes, the case will proce Measure Category Assi E and will be in the Nu Population. Stop proces CMS. Proceed to step 5 check the Stratified Me Overall Rate (SCIP-Inf- Joint Commission. c. If Antibiotic Allergy
to recheck Antibiotic N 52. Recheck Antibiotic I a. If none of the Antibio are on Table 3.8, the cas proceed to a Measure C Assignment of D and w the Measure Population processing for CMS. Pr step 57 and check the S Measures for Overall R Inf-2a) for The Joint Co b. If at least one of the A Names are on Table 3.8 processing and proceed Vancomycin. 53. Check Vancomycin.

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
Selection of antibiotic prophylaxis for cardiac surgery patients	Selection of prophylactic antibiotic: First or second generation cephalosporin	Prophylactic antibiotic selection for surgical patients equals 9 and none of the values equal 1, 2, 3, 4, 5, 6, 7, 8, 10, or 11, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. c. If any Vancomycin value equals 1, 2, 3, 4, 5, 6, 7, 8, 10, or 11 and none of the values equals 9, the case will proceed to a Measure Category Assignment of E and will be in the Numerator Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. 54. Check Antibiotic Allergy only if the ICD-9-CM Principal Procedure Code is on Table 5.03, 5.06, or 5.07 a. If Antibiotic Allergy is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission. b. If Antibiotic Allergy equals No, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission. b. If Antibiotic Allergy equals No, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Bate (SCIP Inf-2a) for The Joint Commission.
		Joint Commission. c. If Antibiotic Allergy equals Yes,
		continue processing and proceed to recheck Antibiotic Name. 55 Recheck Antibiotic Name
		a. If at least one of the Antibiotic Names is on Table 3.9, continue

Selection of antibiotic prophylaxis for cardiac surgery patients Selection of prophylactic antibiotic First or second generation cephalosporin Prophylactic antibiotic selection for surgical patients Image: Im	Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
prophylaxis for cardiac surgery patients antibiotic: First or second generation cephalosporin for surgical patients processing and recheck Antibioti Name. 1. If at least one of the Antibioti Names is on Tables 2.11 or 3.12 or 2.7, the case will proceed to a Measure Category Assignment o E and will be in the Numerator Population. Stop processing and recheck Antibiotic Name are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name. b. If none of the Antibiotic Name are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name. 1. If at least one of the Antibiotic Name are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name. 1. If at least one of the Antibiotic Name are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name. 1. If at least one of the Antibiotic Name are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name. 1. If at least one of the Antibiotic Name a. If at least one of the Antibiotic Name is on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name a. If at least one of the Antibiotic Name a. If at least one of the Antibiotic Name a. If at least one of the Antibiotic Name and it is on Table 2.11 or 3.12, the case will proceed to a Measure Category Assignment on E and will be in the Numerator Population. Stop processing for CMS. Proceed to Stratified	Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
patients generation cephalosporin processing and recheck Antibioti Name. 1. If at least one of the Antibiotic Names is on Tables 2.11 or 3.12 o 2.7, the case will proceed to a Measure Category Assignment o E and will be in the Numerator Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for Th Joint Commission. 1. If none of the Antibiotic Name are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name. b. If none of the Antibiotic Name are on Tables 3.9, continue processing and recheck Antibiotic Name. 56.Recheck Antibiotic Name a. If at least one of the Antibiotic Name is on Table 3.6a, continue processing and recheck Antibiotic Name. 1. If at least one of the Antibiotic Name. 1. If at least one of the Antibiotic Name. 1. If at least one of the Antibiotic Name. 1. If at least one of the Antibiotic Name. 1. If at least one of the Antibiotic Name. 1. If at least one of the Antibiotic Name. 1. If at least one of the Antibiotic Name. 1. If at least one of the Antibiotic Name. 1. If at least one of the Antibiotic Name. 1. If at least one of the Antibiotic Name. 1. If at least one of the Antibiotic Name. 1. If at least one of the Antibiotic Name. 2. Of CMS. Proceed to a more the Antibiotic Name and will be in the Numerator Population. Stop processing for	prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
processing and recheck Antibioti Name. 1. If at least one of the Antibiotic Names is on Tables 2.11 or 3.12 o 2.7, the case will proceed to a Measure Category Assignment o E and will be in the Numerator Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for Th Joint Commission. 2. If none of the Antibiotic Name are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name. b. If none of the Antibiotic Name are on Table 3.9, continue processing and recheck Antibiotic Name. 56. Recheck Antibiotic Name a. If at least one of the Antibiotic Name is on Table 3.6a, continue processing and recheck Antibiotic Name. 1. If at least one of the Antibiotic Name. 2. If none of the Antibiotic Name. 3. If at least one of the Antibiotic Name. 3. If one case will proceed to a Measure Category Assignment o 5. CMS. Proceed to Stratified	patients	generation cephalosporin	
Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission 2. If none of the Antibiotic Name are on Tables 2.11 or 3.12, the cas will proceed to a Measure Category Assignment of D and will be in the Measure	Maintenance Measure 0126: Selection of antibiotic prophylaxis for cardiac surgery patients	Endorsed Measure 0268: Selection of prophylactic antibiotic: First or second generation cephalosporin	Maintenance Measure 0528: Prophylactic antibiotic selection for surgical patients processing and recheck Antibiotic Name. 1. If at least one of the Antibiotic Names is on Tables 2.11 or 3.12 or 2.7, the case will proceed to a Measure Category Assignment of E and will be in the Numerator Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. 2. If none of the Antibiotic Names are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Name. b. If none of the Antibiotic Names are on Table 3.9, continue processing and recheck Antibiotic Name. 56.Recheck Antibiotic Name a. If at least one of the Antibiotic Name. 56.Recheck Antibiotic Name a. If at least one of the Antibiotic Name. 1. If at least one of the Antibiotic Names is on Table 3.6a, continue processing and recheck Antibiotic Name. 1. If at least one of the Antibiotic Names is on Tables 2.11 or 3.12, the case will proceed to a Measure Category Assignment of E and will be in the Numerator Population. Stop processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission. 2. If none of the Antibiotic Names are on Tables 2.11 or 3.12, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing for
win de in the Meddule			Population. Stop processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP- Inf-2a) for The Joint Commission. b. If none of the Antibiotic Names are on Table 3.6a, the case will proceed to a Measure Category Assignment of D and will be in the measure population. Stop

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
Selection of antibiotic prophylaxis for cardiac surgery patients	Selection of prophylactic antibiotic: First or second generation cephalosporin	Prophylactic antibiotic selection for surgical patients processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. 57. For The Joint Commission Only, continue processing for the Stratified Measures. Note: Initialize the Measure Category Assignment for each strata measure (b-g) to equal B, not in the Measure Population. Do not change the Measure Category Assignment that was already calculated for the overall rate (SCIP-Inf-2a). The rest of the algorithm will reset the appropriate Measure Category Assignment to be equal to the overall rate's (SCIP-Inf-2a) Measure Category Assignment. 58. Check Overall Rate Category Assignment a. If the Overall Rate Category Assignment is equal to B or X, set the Measure Category Assignment for the strata measures (SCIP-Inf-2b through SCIP-Inf-2h) to equal B, not in the Measure Population. Stop processing. b. If the Overall Rate Category Assignment is equal to D or E, continue processing and check the ICD-9-CM Principal Procedure Code.
		Specifications Manual for National Hospital Inpatient
		Discharges 10-01-10 (4Q10) through 03-31-11 (1Q11) SCIP-Inf-
		2-30 59. Check ICD-9-CM Principal
		Procedure Code a. If the ICD-9-CM Principal
		Procedure Code is on Table 5.01, for Stratified Measure SCIP-Inf-
		2b, set the Measure Category
		Assignment for measure SCIP-

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	0 1
		Inf-2b to equal the Measure
		Category Assignment for
		measure SCIP-Inf-2a. Stop
		processing.
		b. If the ICD-9-CM Principal
		Procedure Code is on Table 5.02
		or 5.03 or 5.04 or 5.05 or 5.06 or
		5.07 or 5.08, continue processing
		and recheck the If the ICD-9-CM
		Principal Procedure Code.
		60. Recheck ICD-9-CM Principal
		Procedure Code
		a. If the ICD-9-CM Principal
		Procedure Code is on Table 5.02,
		for Stratified Measure SCIP-Inf-
		2c, set the Measure Category
		Assignment for measure SCIP-
		Inf-2c to equal the Measure
		Category Assignment for
		measure SCIP-Inf-2a. Stop
		processing.
		b. If the ICD-9-CM Principal
		Procedure Code is on Table 5.03
		or 5.04 or 5.05 or 5.06 or 5.07 or
		5.08, continue processing and
		recheck the If the ICD-9-CM
		Principal Procedure Code.
		61.Recheck ICD-9-CM Principal
		Procedure Code
		a. It the ICD-9-CM Principal
		Procedure Code is on Table 5.04,
		tor Stratified Measure SCIP-Inf-
		2d, set the Measure Category
		Assignment for measure SCIP-
		Int-2d to equal the Measure
		Category Assignment for
		measure SCIP-Inf-2a. Stop
		processing.
		D. II the ICD-9-CM Principal
		rroceaure Code is on Table 5.03
		or 5.05 or 5.06 or 5.07 or 5.08 ,
		the If the ICD 0 CM Primeires
		The fit the ICD-9-CM Principal
		A Rechart ICD & CM Principal
		62. Kecneck ICD-9-CM Principal
		a If the ICD 0 CM Drive size 1
		a. II the ICD-9-CM Principal
		r rocedure Code is on rable 5.05,

Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
patients	generation cephalosporin	
Selection of antibiotic prophylaxis for cardiac surgery patients	Selection of prophylactic antibiotic: First or second generation cephalosporin	Numericality interaction for surgical patientsfor Stratified Measure SCIP-Inf-2e, set the Measure CategoryAssignment for measure SCIP-Inf-2e to equal the MeasureCategory Assignment formeasure SCIP-Inf-2a. Stopprocessing.b. If the ICD-9-CM PrincipalProcedure Code is on Table 5.03or 5.06 or 5.07 or 5.08, continueprocessing and recheck the If theICD-9-CM Principal ProcedureCode.63. Recheck ICD-9-CM PrincipalProcedure Code is on Table 5.03,for Stratified Measure SCIP-Inf-2f,set the Measure CategoryAssignment for measure SCIP-Inf-2f,set the Measure CategoryAssignment for measure SCIP-Inf-2f,set the Measure CategoryAssignment for measure SCIP-Inf-2f,set the ICD-9-CM PrincipalProcedure Code is on Table 5.03,for Stratified Measure SCIP-Inf-2f,set the Measure CategoryAssignment for measure SCIP-Inf-2f,set the ICD-9-CM PrincipalProcedure Code is on Table 5.06or 5.07 or 5.08, continueprocessing,b. If the ICD-9-CM PrincipalProcedure Code is on Table 5.06or 5.07, for Stratified MeasureCode.64. Recheck ICD-9-CM PrincipalProcedure Codea. If the ICD-9-CM PrincipalProcedure Code <t< th=""></t<>
		SCIP-Inf-2g, set the Measure Category Assignment for measure SCIP-Inf-2g to equal the Measure Category Assignment for measure SCIP-Inf-2a. Stop
		processing. b. If the ICD-9-CM Principal Procedure Code is on Table 5.08, for Stratified Measure SCIP-Inf- 2h, set the Measure Category Assignment for measure SCIP- Inf-2h to equal the Measure
		Category Assignment for

	Maintenance Measure 0126:	Endorsed Measure 0268:	Maintenance Measure 0528:
	Selection of antibiotic	Selection of prophylactic	Prophylactic antibiotic selection
	prophylaxis for cardiac surgery	antibiotic: First or second	for surgical patients
	patients	generation cephalosporin	
			measure SCIP-Inf-2a. Stop
			processing.
			2a.22. Describe the method for
			discriminating performance (E.g.,
			significance testing)
			the ABC methodology based on
			the actual performance of the top
			facilities. ABC benchmarks
			identify superior performance
			and encourage poorer performers
			to improve. It is data-driven,
			peer-group performance
			feedback.
			Achievable Benchmarks of Care
			TM: developed at the University
			of Alabama at Birmingham for
			AHRQ. This methodology
			already achieved by "best in
			class" care givers Development
			of benchmarks that are realistic
			and achievable may help to
			motivate providers that are
			having difficulty improving care.
			The benchmarks represent a
			measureable level of excellence
			that always exceeds average
			performance. It ensures that all
			superior providers contribute to
			the benchmark but also ensures
			that providers with high
			pumbers of cases do not unduly
			influence benchmark levels
			Additional information can be
			found at
			http://main.uab.edu/show.asp?
			durki=14527
Data Source	Registry data	Electronic administrative	Electronic administrative
		data/claims, lab data, paper	data/claims, paper medical
		medical record/flow-sheet	record/flow-sheet
Level of	Clinicians: Group;	Clinicians: Individual	Facility/agency
Measurement	Facility/agency; Population:		
/Analysis	states, counties or cities		
Care Sottings	states, counties or cities		1
I V OLV DETTUINS	Hospital	Hospital Ambulatory care	Hospital

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE NQF MEMBER comments due October 26, 20116:00 PM ET; PUBLIC comments due October 19, 2011 6:00 PM ET

Prophylactic Antibiotics: Timing/Received

within 1 hour prior to surgical incision SCIP-Inf-1 Currently undergoing review Centers for Medicare &	Timing of antibiotic prophylaxis- ordering physician Endorsed 7/2008 American Medical Association-	Timing of prophylactic antibiotics - administering physician Endorsed 11/2007 National Committee for	Prophylactic antibiotic received within one hour prior to surgical incision or at the time of delivery – cesarean section. Endorsed 10/2008 Massachusetts General
Medicaid Services	Physician Consortium for Performance Improvement	Quality Assurance, American Medical Association- Physician Consortium for Performance Improvement	Hospital/Partners Health Care System
Surgical patients with prophylactic antibiotics initiated within one hour prior to surgical incision. Patients who received vancomycin or a fluoroquinolone for prophylactic antibiotics should have the antibiotics initiated within two hours prior to surgical incision. Due to the longer infusion time required for vancomycin or a fluoroquinolone, it is acceptable to start these antibiotics within two hours prior to incision time.	Percentage of surgical patients aged 18 years and older undergoing procedures with the indications for prophylactic parenteral antibiotics, who have an order for prophylactic antibiotic to be given within one hour (if fluoroquinolone or vancomycin, two hours), prior to the surgical incision (or start of procedure when no incision is required)	Percentage of surgical patients aged > 18 years with indications for prophylactic parenteral antibiotics for whom administration of the antibiotic has been initiated within one hour (if vancomycin, two hours) prior to the surgical incision or start of procedure when no incision is required.	Percentage of patients undergoing cesarean section who receive prophylactic antibiotics within one hour prior to surgical incision or at the time of delivery.
Process	Process	Process	Process
Number of surgical patients who received prophylactic antibiotics within 1 hour of surgical incision (2 hours if receiving vancomycin).	Surgical patients who have an order for prophylactic antibiotic to be given within one hour (if fluoroquinolone or vancomycin, two hours) prior to the surgical	Surgical patients for whom administration of a prophylactic antibiotic has been initiated within one hour (if vancomycin, two hours)	Number of patients who received prophylactic antibiotics within one hour prior to surgical incision or at the time of delivery. Because delivery and administration of antibiotics are
	Prophylactic antibiotic received within 1 hour prior to surgical incision SCIP-Inf-1 Currently undergoing review Centers for Medicare & Medicaid Services Surgical patients with prophylactic antibiotics initiated within one hour prior to surgical incision. Patients who received vancomycin or a fluoroquinolone for prophylactic antibiotics should have the antibiotics initiated within two hours prior to surgical incision. Due to the longer infusion time required for vancomycin or a fluoroquinolone, it is acceptable to start these antibiotics within two hours prior to incision time. Process Number of surgical patients who received prophylactic antibiotics within 1 hour of surgical incision (2 hours if receiving vancomycin).	Prophylactic antibiotic received within 1 hour prior to surgical incision SCIP-Inf-1Timing of antibiotic prophylaxis- ordering physicianCurrently undergoing reviewEndorsed 7/2008Currently undergoing reviewEndorsed 7/2008Centers for Medicare & Medicaid ServicesAmerican Medical Association- Physician Consortium for Performance ImprovementSurgical patients with prophylactic antibiotics initiated within one hour prior to surgical incision. Patients who received vancomycin or a fluoroquinolone for prophylactic antibiotics should have the antibiotics initiated within two hours prior to surgical incision. Due to the longer infusion time required for vancomycin or a fluoroquinolone, it is acceptable to start these antibiotics within two hours prior to incision time.Percentage of surgical patients aged 18 years and older undergoing procedures with the indications for prophylactic antibiotics initiated within two hours prior to surgical incision. Due to the longer infusion time required for vancomycin or a fluoroquinolone, it is acceptable to start these antibiotics within two hours prior to incision time.ProcessProcessProcessNumber of surgical patients who received prophylactic antibiotics within 1 hour of surgical incision (2 hours if receiving vancomycin).Surgical patients who have an order for prophylactic antibiotic to be given within one hour (if fluoroquinolone or vancomycin, two hours) prior to the surgical incision (or start of procedure	Prophylactic antibiotic received within 1 hour prior to surgical incision SCIP-Inf-1Timing of antibiotic prophylaxis- ordering physicianTiming of prophylactic antibiotics - administering physicianCurrently undergoing reviewEndorsed 7/2008Endorsed 11/2007Centers for Medicare & Medicaid ServicesAmerican Medical Association- Physician Consortium for Performance ImprovementNational Committee for Quality Assurance, American Medical Association- Physician Consortium for Performance ImprovementSurgical patients with prophylactic antibiotics initiated within one hour prior to surgical incision. Patients who received vancomycin or a fluoroquinolone for prophylactic antibiotics sinitiated within two hours prior to surgical incision. Due to the of vancomycin or a fluoroquinolone, it is acceptable to start these antibiotics within two hours prior to incision time.ProcessProcessProcessProcessProcessProcessProcessProcessSurgical patients who have an order for prophylactic antibiotics within of procedure when no incision is required)Surgical patients who have an order for prophylactic antibiotics initiated within one hour (if fluoroquinolone, it is acceptable to start these antibiotics within who received prophylactic antibiotics within 1 hour of surgical incision (2 hours if fluoroquinolone or vancomycin, two hours) prior to hours of the given within one hour (if fluoroquinolone or vancomycin, two hours) prior to the surgical patients (or start of procedure who received prophylactic antibiotics within 1 hour of surgical incision (2 hours if fluoroquinolone or vancomycin, two hours) prior to the surgical incision (or start of pro

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	Maintenance Measure 0527: Prophylactic antibiotic received within 1 hour prior to surgical incision SCIP-Inf-1	Endorsed Measure 0270: Timing of antibiotic prophylaxis- ordering physician	Endorsed Measure 0269: Timing of prophylactic antibiotics - administering physician	Endorsed Measure 0472: Prophylactic antibiotic received within one hour prior to surgical incision or at the time of delivery – cesarean section.
		when no incision is required). Numerator Instructions: There must be documentation of order (written order, verbal order, or standing order/protocol) specifying that antibiotic is to be given within one hour (if fluoroquinolone or vancomycin, two hours) prior to the surgical incision (or start of procedure when no incision is required) OR documentation that antibiotic has been given within one hour (if fluoroquinolone or vancomycin, two hours) prior to the surgical incision (or start of procedure when no incision is required).	(or start of procedure when no incision is required). The antimicrobial drugs listed below are considered prophylactic antibiotics for the purposes of this measure: • Ampicillin/sulbactam • Aztreonam • Cefazolin • Cefmetazole • Cefotetan • Cefotetan • Cefotetan • Cefototin • Cefuroxime • Ciprofloxacin • Clindamycin • Erythromycin base • Gatifloxacin • Levofloxacin • Metronidazole • Moxifloxacin • Vancomycin	and watches imperfectly synchronized, in operational use there must be an allowance for a discrete period of time in the application of "at the time of delivery." We propose that administration should be considered acceptable if given within 10 minutes of delivery/cord clamping for those in whom prophylactic antibiotics are not given preooperatively.
Numerator Details	Data Elements: Anesthesia Start Date Antibiotic Administration Date Antibiotic Administration Time Surgical Incision Date Surgical Incision Time	Report one of the following CPT Category II codes: Identify patients with documentation of order for prophylactic antibiotic: • CPT II 4047F: Documentation of order for prophylactic antibiotic to be given within one	Electronic Collection: G-codes or CPT Category II are used to report the numerator of the measure: 1. If reporting G-codes submit the appropriate G-code. 2. If reporting CPT Category II codes submit the appropriate CPT Category II	

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
			cesarean section.
	hour (if fluoroquinolone or	code.	
	vancomycin, two hours) prior to		
	surgical incision (or start of	Identify surgical patients who	
	procedure when no incision is	were administered	
	required).	prophylactic antibiotics (See	
	OR	Table 2A) within one hour (if	
	Documentation that	vancomycin, two hours) prior	
	prophylactic antibiotic has been	to the surgical incision (or	
	given within one hour prior to	start of procedure when no	
	the surgical incision (or start of	incision is required):	
	procedure when no incision is	•? GXXXXX: Clinician	
	required).	documented to have given the	
		prophylactic antibiotic within	
	• CP1 II 4048F: Documentation	one hour (if vancomycin, two	
	that prophylactic antibiotic was	hours) prior to the surgical	
	given within one hour (if	incision (or start of procedure	
	fluoroquinoione or vancomycin,	when no incision is required).	
	two nours) prior to surgical		
	incision (or start of procedure	? CPT II AAAF:	
	when no incision is required).	Documentation that	
		riven within one hour (if	
		given within one nour (in	
		to surgical incision (or start of	
		procedure when no incision is	
		required)	
		required).	
		Medical Records: There must	
		be documentation of order	
		(written order, verbal order	
		or standing order/protocol)	
		specifying that antibiotic is to	
		be given within one hour (if	
		vancomycin, two hours) prior to surgical incision (or start of procedure when no incision is required). Medical Records: There must be documentation of order (written order, verbal order, or standing order/protocol) specifying that antibiotic is to be given within one hour (if	

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Maintenance Measure 0527: Prophylactic antibiotic received within 1 hour prior to surgical incision SCIP-Inf-1	Endorsed Measure 0270: Timing of antibiotic prophylaxis- ordering physician	Endorsed Measure 0269: Timing of prophylactic antibiotics - administering physician	Endorsed Measure 0472: Prophylactic antibiotic received within one hour prior to surgical incision or at the time of delivery – cesarean section.
		vancomycin, two hours) prior to the surgical incision (or start of procedure when no incision is required). A sample should be determined using the most accurate data available in the settings in which the measure will be implemented. Sample sizes may be defined by different implementers.	
		Hybrid: Users should follow the requirements of electronic data collection, select a sample of patients, and then supplement the electronic data where needed with medical record abstraction of data elements to fulfill measure reporting requirements.	
		EHR: Electronic Health Record (EHR) users may opt to use this methodology or the electronic data collection methodology described previously. EHR users should collect data on 100% of their denominator population instead of a sample.	

	Maintenance Measure 0527: Prophylactic antibiotic received within 1 hour prior to surgical incision SCIP-Inf-1	Endorsed Measure 0270: Timing of antibiotic prophylaxis- ordering physician	Endorsed Measure 0269: Timing of prophylactic antibiotics - administering physician	Endorsed Measure 0472: Prophylactic antibiotic received within one hour prior to surgical incision or at the time of delivery – cesarean section.
			EHR users may opt to use the codes listed in the electronic data collection methodology to identify patients with documentation of administration of prophylactic antibiotic.	
Denominator	All selected surgical patients with no evidence of prior infection. Table 5.10 is the complete table of selected major surgeries	All surgical patients aged 18 years and older undergoing procedures with the indications for prophylactic parenteral antibiotics Denominator (Eligible Population): All surgical patients aged 18 years and older undergoing procedures with the indications for prophylactic parenteral antibiotics.	All surgical patients aged 18 years and older who have an order for a prophylactic parenteral antibiotic to be given within one hour (if vancomycin, two hours) prior to the surgical incision (or start of procedure when no incision is required).	All patients undergoing cesarean section without evidence of prior infection or already receiving prophylactic antibiotics for other reasons.
Denominator Categories	Female, Male; Patients aged 18			
Denominator Details	Included Populations: An ICD-9-CM Principal Procedure Code of selected surgeries (as defined in Appendix A, Table 5.10 for ICD- 9-CM codes). AND An ICD-9-CM Principal Procedure Code of selected surgeries (as defined in Appendix A, Table 5.01-5.08 for ICD-9-CM codes).	• CPT Procedure Codes Integumentary: 15734, 15738, 19260, 19271, 19272, 19301- 19307, 19361, 19364, 19366-19369 Le Fort Fractures: 21422, 21423, 21346-21348, 21432, 21433, 21435, 21436 Mandibular Fracture: 21454, 21461, 21462, 21465, 21470 Spine: 22325, 22612, 22630, 22800, 22802, 22804, 63030, 63042 Hip Reconstruction: 27125,	Electronic Collection: G-code, CPT-II code, and patient demographics (age, etc) are used to determine patients that are included in the measure: •? GXXXXX: Patient documented to have order for prophylactic parenteral antibiotic to be given within one hour (if vancomycin, two hours) prior to surgical incision (or start of procedure	

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
			cesarean section.
	27130, 27132, 27134, 27137,	when no incision is required).	
	27138	OR	
	Trauma (Fractures): 27235,	•? CPT II XXXXF:	
	27236, 27244, 27245, 27758,	Documentation of order for	
	27759, 27766, 27792, 27814	prophylactic parenteral	
	Knee Reconstruction: 27440-	antibiotic to be given within	
	27443, 27445-27447	one hour (if vancomycin, two	
	Laryngectomy: 31360, 31365,	hours) prior to surgical	
	31367, 31368, 31370, 31375,	incision (or start of procedure	
	31380, 31382, 31390, 31395	when no incision is required).	
	Vascular: 33877, 33880, 33881,		
	33883, 33886, 33891, 34800,	Medical Records: There must	
	34802-34805, 34825, 34830-34832,	be documentation of order	
	34900, 35081, 35091, 35102,	(written order, verbal order,	
	35131, 35141, 35151, 35601,	or standing order/protocol)	
	35606, 35612, 35616, 35621,	specifying that antibiotic is to	
	35623, 35626, 35631, 35636-	be given within one hour (if	
	35638, 35642, 35645-35647,	vancomycin, two hours) prior	
	35650, 35651, 35654, 35656,	to the surgical incision (or	
	35661, 35663, 35665, 35666,	start of procedure when no	
	35671, 36830	incision is required). A	
	Spleen and Lymph Nodes:	sample should be determined	
	38115 Classestarrer 41120 4112E	using the most accurate data	
	Glossectomy: 41150, 41155,	available in the settings in	
	41140, 41143, 41150, 41153,	which the measure will be	
	41155 Escribe gues 42045 42100 42101	implemented. Sample sizes	
	Esophagus: 43045, 43100, 43101,	may be defined by different	
	40107, 40100, 40112, 40110,	implementers.	
	43110-43110, 43121-43124, 43130,	Hybrid Hoors should fallow	
		the requirements of electronic	
	43312, 43313, 43320, 43324-	data collection solect a	
		sample of patients and then	
	43341, 43330, 43331, 43332,	sample of patients, and then	

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
			cesarean section.
	43360, 43361, 43400, 43401,	supplement the electronic	
	43405, 43410, 43415, 43420,	data where needed with	
	43425, 43496	medical record abstraction of	
	Stomach: 43500-43502, 43510,	data elements to fulfill	
	43520, 43600, 43605, 43610,	measure reporting	
	43611, 43620-43622, 43631-43634,	requirements.	
	43640, 43641, 43653, 43800,		
	43810, 43820, 43825, 43830-	EHR: Electronic Health	
	43832, 43840, 43842, 43843,	Record (EHR) users may opt	
	43845-43848, 43850, 43855,	to use this methodology or	
	43860, 43865, 43870	the electronic data collection	
	Small Intestine: 44005, 44010,	methodology described	
	44020, 44021, 44050, 44055,	previously. EHR users should	
	44100, 44120, 44125-44127,	collect data on 100% of their	
	44130, 44132, 44133, 44135,	denominator population	
	44136	instead of a sample.	
	Colon and Rectum: 43880,		
	44025, 44110, 44111, 44140,	EHR users may opt to use the	
	44141, 44143-44147, 44150,	codes listed in the electronic	
	44151, 44155-44158, 44160,	data collection methodology	
	44202, 44204-44208, 44210-44212,	to identify all patients aged 18	
	44300, 44310, 44312, 44314,	years and older who have an	
	44316, 44320, 44322, 44340,	order for a parenteral	
	44345, 44346, 44602-44605,	antibiotic to be given within	
	44615, 44620, 44625, 44626,	one hour (if vancomycin, two	
	44640, 44650, 44660, 44661,	hours) prior to the surgical	
	44700, 44950, 51597	incision (or start of procedure	
	Anus and Rectum: 45108, 45110-	when no incision is required).	
	45114, 45116, 45119-45121,		
	45123, 45126, 45130, 45135,		
	45136, 45150, 45160, 45170,		
	45190, 45500, 45505, 45520,		
	45540, 45541, 45550, 45560,		

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
		r J	cesarean section.
	45562, 45563, 45800, 45805,		
	45820, 45825		
	Hepatic Surgery: 47133, 47135,		
	47136, 47140-47142		
	Biliary Surgery: 47420, 47425,		
	47460, 47480, 47560, 47561,		
	47570, 47600, 47605, 47610,		
	47612, 47620, 47700, 47701,		
	47711, 47712, 47715, 47719-		
	47721, 47740, 47741, 47760,		
	47765, 47780, 47785, 47800,		
	47802, 47900		
	Pancreas: 48020, 48100, 48120,		
	48140, 48145, 48146, 48148,		
	48150, 48152-48155, 48160,		
	48500, 48510, 48511, 48520,		
	48540, 48545, 48547, 48548,		
	48550, 48554, 48556		
	Abdomen, Peritoneum, and		
	Omentum: 49215, 49568		
	Renal Transplant: 50300, 50320,		
	50340, 50360, 50365, 50370,		
	50380		
	Gynecologic Surgery: 58150,		
	58152, 58180, 58200, 58210,		
	58260, 58262, 58263, 58267,		
	58270, 58275, 58280, 58285,		
	58290-58294		
	Acoustic Neuroma: 61591,		
	61595, 61596, 61598, 61520,		
	61526, 61530, 61606, 61616,		
	61618, 61619, 69720, 69955,		
	69960, 69970		

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
			cesarean section.
	Cochlear Implants: 69930		
	Neurological Surgery: 22524,		
	22554, 22558, 22600, 22612,		
	22630, 35301, 61154, 61312,		
	61313, 61315, 61510, 61512,		
	61518, 61548, 61697, 61700,		
	61750, 61751, 61867, 62223,		
	62230, 63015, 63020, 63030,		
	63042, 63045, 63047, 63056,		
	63075, 63081, 63267, 63276		
	Cardiothoracic Surgery: 33120,		
	33130, 33140, 33141, 33202,		
	33250, 33251, 33256, 33261,		
	33305, 33315, 33321, 33322,		
	33332, 33335, 33400, 33401,		
	33403-33406, 33410, 33411,		
	33413, 33416, 33422, 33425-		
	33427, 33430, 33460, 33463-		
	33465, 33475, 33496, 33510-		
	33519, 33521-33523, 33530,		
	33533-33536, 33542, 33545,		
	33548, 33572, 35211, 35241,		
	35271		
	Cardiothoracic (Pacemaker):		
	33203, 33206-33208, 33212-33218,		
	33220, 33222-33226, 33233-33238,		
	33240, 33241, 33243, 33244,		
	33249, 33254, 33255		
	Genitourinary Surgery: 51550,		
	51555, 51565, 51570, 51575,		
	51580, 51585, 51590, 51595,		
	51596, 51920, 51925, 52450,		
	52601, 52612, 52614, 52620,		

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
			cesarean section.
	52630, 52647, 52648, 54401,		
	54405, 54406, 54408, 54410,		
	54415, 54416, 55801, 55810,		
	55812, 55815, 55821, 55831,		
	55840, 55842, 55845		
	General Thoracic Surgery:		
	19272, 21627, 21632, 21740,		
	21750, 21805, 21825, 31760,		
	31766, 31770, 31775, 31786,		
	31805, 32095, 32100, 32110,		
	32120, 32124, 32140, 32141,		
	32150, 32215, 32220, 32225,		
	32310, 32320, 32402, 32440,		
	32442, 32445, 32480, 32482,		
	32484, 32486, 32488, 32491,		
	32500, 32501, 32800, 32810,		
	32815, 32900, 32905, 32906,		
	32940, 33020, 33025, 33030,		
	33031, 33050, 33300, 33310,		
	33320, 34051, 35021, 35216,		
	35246, 35276, 35311, 35481,		
	35526, 37616, 38381, 38746,		
	38747, 39000, 39010, 39200,		
	39220, 39545, 39561, 60521,		
	60522, 64746.		
	Foot & Ankle: 27702, 27703,		
	27704, 27870, 28192, 28193,		
	28293, 28296, 28299, 28300,		
	28306, 28307, 28308, 28309,		
	28310, 28320, 28322, 28415,		
	28420, 28445, 28465, 28485,		
	28505, 28525, 28531, 28555,		
	28585, 28615, 28645, 28675,		

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	Maintenance Measure 0527: Prophylactic antibiotic received within 1 hour prior to surgical incision SCIP-Inf-1	Endorsed Measure 0270: Timing of antibiotic prophylaxis- ordering physician	Endorsed Measure 0269: Timing of prophylactic antibiotics - administering physician	Endorsed Measure 0472: Prophylactic antibiotic received within one hour prior to surgical incision or at the time of delivery –
			1 7	cesarean section.
		28705, 28715, 28725, 28730, 28735, 28737, 28740, 28750, 28755, 28760		
Exclusions	Patients less than 18 years of age Patients who have a Length of Stay greater than 120 days Patients who had a hysterectomy and a caesarean section performed during this hospitalizationPatients who had a principal diagnosis suggestive of preoperative infectious diseases (as defined in Appendix A, Table 5.09 for ICD-9-CM codes)Patients whose ICD-9-CM principal procedure was performed entirely by LaparoscopePatients whose ICD-9-CM principal procedure occurred prior to the date of admission Patients with physician/advanced practice nurse/physician assistant (physician/APN/PA) documented infection prior to surgical procedure of interest Patients who had other procedures requiring general or spinal anesthesia that occurred	Documentation of medical reason(s) for not ordering antibiotics to be given within one hour (if fluoroquinolone or vancomycin, two hours) prior to the surgical incision (or start of procedure when no incision is required).	N/A	

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	Maintenance Measure 0527: Prophylactic antibiotic received within 1 hour prior to surgical incision SCIP-Inf-1	Endorsed Measure 0270: Timing of antibiotic prophylaxis- ordering physician	Endorsed Measure 0269: Timing of prophylactic antibiotics - administering physician	Endorsed Measure 0472: Prophylactic antibiotic received within one hour prior to surgical incision or at the time of delivery – cesarean section.
	within 3 days (4 days for CABG or Other Cardiac Surgery) prior to or after the procedure of interest (during separate surgical episodes) during this hospital stay Patients who were receiving antibiotics more than 24 hours prior to surgery Patients who were receiving antibiotics within 24 hours prior to arrival (except colon surgery patients taking oral prophylactic antibiotics)			
Exclusion Details	Data Elements: Admission Date Antibiotic Received Birthdate Clinical Trial Discharge Date Infection Prior to Anesthesia Laparoscope Oral Antibiotics Other Surgeries	Append modifier to CPT Category II code: 4047F-1P		
Risk Adjustment	No risk adjustment necessary	No risk adjustment necessary	No risk adjustment necessary	No risk adjustment necessary
Stratification	The antibiotic prophylaxis measures are stratified according to surgery type. The tables are subsets of Table 5.10 (see link for Specification Manual and Appendix A, Tables 5.01 to 5.08. The specific procedures must be in the large			

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	Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
	Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
	within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
	incision SCIP-Inf-1		physician	incision or at the time of delivery –
				cesarean section.
	table (Table 5.10) to be eligible			
	for the SCIP measures. The			
	measure specific tables for SCIP-			
	Inf-1 are 5.01 to 5.08.			
Type Score	Rate/proportion			
Algorithm	1. Start processing. Run cases			
	that are included in the Surgical			
	Care Improvement Project			
	(SCIP) Initial Patient Population			
	and pass the edits defined in the			
	Transmission Data Processing			
	Flow: Clinical through this			
	measure.			
	2. Calculate Patient Age. The			
	Patient Age, in years, is equal to			
	the Admission Date minus the			
	Birthdate. Use the month and			
	day portion of admission date			
	and birthdate to yield the most			
	accurate age.			
	3. Check Patient Age			
	a. If the Patient Age is less than			
	18 years, the case will proceed			
	to a Measure Category			
	Assignment of B and will not be			
	in the Measure Population. Stop			
	processing for Centers for			
	Medicare and Medicaid Services			
	(CMS). Proceed to step 36 and			
	check the Stratified Measures			
	for Overall Rate (SCIP-Inf-1a)			
	for The Joint Commission.			
	b. If the Patient Age is greater			

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Maintenance Measure 0527:	Endorsed Measure 0270 :	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery -
			cesarean section.
than or equal to 18 years,			
continue processing and			
proceed to ICD-9-CM Principal			
Procedure Code.			
4. Check ICD-9-CM Principal			
Procedure Code			
a. If the ICD-9-CM Principal			
Procedure Code is not on Table			
5.01 or 5.02 or 5.03 or 5.04 or			
5.05 or 5.06 or 5.07 or 5.08, the			
case will proceed to a Measure			
Category Assignment of B and			
will not be in the Measure			
Population. Stop processing for			
CMS. Proceed to step 36 and			
check the Stratified Measures			
for Overall Rate (SCIP-Inf-1a)			
for The Joint Commission.			
b. If the ICD-9-CM Principal			
Procedure Code is on Table 5.01			
or 5.02 or 5.03 or 5.04 or 5.05 or			
5.06 or 5.07 or 5.08, continue			
processing and proceed to			
recheck ICD-9-CM Principal			
Procedure Code.			
5. Recheck ICD-9-CM Principal			
Procedure Code			
a. If the ICD-9-CM Principal			
Procedure Code is on Table 5.06			
or 5.07, continue processing and			
check ICD-9-CM Other			
Procedure Code.			
1. If any of the ICD-9-CM Other			

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
			cesarean section.
Procedure Codes are on Table			
4.07, the case will proceed to a			
Measure Category Assignment			
of B and will not be in the			
Measure Population. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
2.If all of the ICD-9-CM Other			
Procedure Codes are missing or			
none are on Table 4.07, continue			
processing and proceed to ICD-			
9-CM Principal Diagnosis Code.			
b. If the ICD-9-CM Principal			
Procedure Code is not on Table			
5.06 or 5.07, continue processing			
and proceed to ICD-9-CM			
Principal Diagnosis Code.			
6. Check ICD-9-CM Principal			
Diagnosis Code			
a. If the ICD-9-CM Principal			
Diagnosis Code is on Table 5.09,			
the case will proceed to a			
Measure Category Assignment			
of B and will not be in the			
Measure Population. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
		1 7	cesarean section.
b. If the ICD-9-CM Principal			
Diagnosis Code is not on Table			
5.09, continue processing and			
proceed to Laparoscope.			
7.Check Laparoscope			
a. If Laparoscope is missing, the			
case will proceed to a Measure			
Category Assignment of X and			
will be rejected. Stop processing			
for CMS. Proceed to step 36 and			
check the Stratified Measures			
for Overall Rate (SCIP-Inf-1a)			
for The Joint Commission.			
b. If Laparoscope equals 1 or 3,			
the case will proceed to a			
Measure Category Assignment			
of B and will not be in the			
Measure Population. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
c. If Laparoscope equals 2,			
continue processing and			
proceed to Clinical Trial.			
8. Check Clinical Trial			
a. If Clinical Trial is missing, the			
case will proceed to a Measure			
Category Assignment of X and			
will be rejected. Stop processing			
for CMS. Proceed to step 36 and			
check the Stratified Measures			

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
		1 7	cesarean section.
for Overall Rate (SCIP-Inf-1a)			
for The Joint Commission.			
b. If Clinical Trial equals Yes,			
the case will proceed to a			
Measure Category Assignment			
of B and will not be in the			
Measure Population. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
c. If Clinical Trial equals No,			
continue processing and			
proceed to Anesthesia Start			
Date.			
9. Check Anesthesia Start Date			
a. If the Anesthesia Start Date is			
missing, the case will proceed to			
a Measure Category			
Assignment of X and will be			
rejected. Stop processing for			
CMS. Proceed to step 36 and			
check the Stratified Measures			
for Overall Rate (SCIP-Inf-1a)			
for The Joint Commission.			
b. If the Anesthesia Start Date			
equals Unable To Determine,			
the case will proceed to a			
Measure Category Assignment			
ot D and will be in the Measure			
Population. Stop processing for			
CMS. Proceed to step 36 and			

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
			cesarean section.
check the Stratified Measures			
for Overall Rate (SCIP-Inf-1a)			
for The Joint Commission			
c. If Anesthesia Start Date			
equals a Non Unable To			
Determine Value, continue			
processing and proceed to the			
Surgery Days calculation.			
10.Calculate Surgery Days.			
Surgery Days, in days, is equal			
to the Anesthesia Start Date			
minus the Admission Date.			
11.Check Surgery Days			
a. If the Surgery Days is less			
than zero, the case will proceed			
to a Measure Category			
Assignment of B and will not be			
in the Measure Population. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
b. If the Surgery Days is greater			
than or equal to zero, continue			
processing and proceed to			
Infection Prior to Anesthesia.			
12.Check Infection Prior to			
Anesthesia			
a. If Infection Prior to			
Anesthesia is missing, the case			
will proceed to a Measure			
Category Assignment of X and			

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
		F	cesarean section.
will be rejected. Stop processing			
for CMS. Proceed to step 36 and			
check the Stratified Measures			
for Overall Rate (SCIP-Inf-1a)			
for The Joint Commission.			
b. If Infection Prior to			
Anesthesia equals Yes, the case			
will proceed to a Measure			
Category Assignment of B and			
will not be in the Measure			
Population. Stop processing for			
CMS. Proceed to step 36 and			
check the Stratified Measures			
for Overall Rate (SCIP-Inf-1a)			
for The Joint Commission.			
c. If Infection Prior to			
Anesthesia equals No, continue			
processing and proceed to Other			
Surgeries.			
13. Check Other Surgeries			
a. If Other Surgeries is missing,			
the case will proceed to a			
Measure Category Assignment			
of X and will be rejected. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
b. If Other Surgeries equals Yes,			
the case will proceed to a			
Measure Category Assignment			
of B and will not be in the			

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE

Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
		1 7	cesarean section.
Measure Population. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
c. If Other Surgeries equals No,			
continue processing and			
proceed to Surgical Incision			
Date.			
14. Check Surgical Incision Date			
a. If the Surgical Incision Date is			
missing, the case will proceed to			
a Measure Category			
Assignment of X and will be			
rejected. Stop processing for			
CMS. Proceed to step 36 and			
check the Stratified Measures			
for Overall Rate (SCIP- Inf-1a)			
for The Joint Commission.			
b. If the Surgical Incision Date			
equals Unable To Determine,			
the case will proceed to a			
Measure Category Assignment			
of D and will be in the Measure			
Population. Stop processing for			
CMS. Proceed to step 36 and			
check the Stratified Measures			
for Overall Rate (SCIP-Inf-1a)			
for The Joint Commission.			
c. If Surgical Incision Date			
equals a Non Unable To			
Determine Value, continue			

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Maintenance Measure 0527: Prophylactic antibiotic received	Endorsed Measure 0270: Timing of antibiotic	Endorsed Measure 0269: Timing of prophylactic	Endorsed Measure 0472: Prophylactic antibiotic received
incision SCIP-Inf-1	prophylaxis- ordering physician	physician	incision or at the time of delivery – cesarean section.
processing and proceed to			
Antibiotic Received.			
15.Check Antibiotic Received			
a. If Antibiotic Received equals			
1 or 2, continue processing and			
proceed to recheck ICD-9-CM			
Principal Procedure Code			
b. If Antibiotic Received equals			
4, the case will proceed to a			
Measure Category Assignment			
of D and will be in the Measure			
Population. Stop processing for			
CMS. Proceed to step 36 and			
check the Stratified Measures			
for Overall Rate (SCIP-Int-1a)			
for The Joint Commission.			
c. If Antibiotic Received equals			
3, continue processing and			
proceed to step 19 and check			
Antibiotic Name. Do not check			
ICD-9-CM Principal Procedure			
Code, Oral Antibiotics or			
Antibiotic Received.			
Brocedure Code only if			
Antibiotic Received equals 1 or			
2			
a. If the ICD-9-CM Principal			
Procedure Code is not on Table			
5.03, the case will proceed to a			
Measure Category Assignment			
of B and will not be in the			
measure population. Stop			

NQF REVIEW DRAFT—DO NOT CITE OR QUOTE
Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
		1 5	cesarean section.
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
b. If the ICD-9-CM Principal			
Procedure Code is on Table 5.03,			
continue processing and			
proceed to check Oral			
Antibiotics.			
17. Check Oral Antibiotics			
a. If Oral Antibiotics is missing,			
the case will proceed to a			
Measure Category Assignment			
of X and will be rejected. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
b. If Oral Antibiotics equals No,			
the case will proceed to a			
Measure Category Assignment			
of B and will not be in the			
Measure Population. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
c. If Oral Antibiotics equals Yes,			
continue processing and			
proceed to recheck Antibiotic			

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
			cesarean section.
Received.			
18.Recheck Antibiotic Received			
a. If Antibiotic Received equals			
1, the case will proceed to a			
Measure Category Assignment			
of D and will be in the Measure			
Population. Stop processing for			
CMS. Proceed to step 36 and			
check the Stratified Measures			
for Overall Rate (SCIP-Inf-1a)			
for The Joint Commission.			
b. If Antibiotic Received equals			
2, continue processing and			
proceed to Antibiotic Name.			
19. Check Antibiotic Name			
a. If the Antibiotic Grid is not			
populated, the case will proceed			
to a Measure Category			
Assignment of X and will be			
rejected. Stop processing for			
CMS. Proceed to step 36 and			
check the Stratified Measures			
for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission. Note: The front-			
end edits reject cases containing			
invalid data and/or an			
incomplete Antibiotic Grid. A			
complete Antibiotic Grid			
requires all data elements in the			
row to contain either a valid			
value and/or Unable to			
Determine.			

]	Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
]	Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
,	within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
i	incision SCIP-Inf-1		physician	incision or at the time of delivery –
				cesarean section.
1	b. If the Antibiotic Name is on			
,	Table 2.1, continue processing			
	and proceed to Antibiotic			
	Administration Route.			
	20.Check Antibiotic			
	Administration Route			
	a. If the Antibiotic			
	Administration Route is equal			
f	to 3 or 10 for all antibiotic doses,			
ł	the case will proceed to a			
]	Measure Category Assignment			
	of D and will be in the Measure			
]	Population. Stop processing for			
	CMS. Proceed to step 36 and			
	check the Stratified Measures			
t	for Overall Rate (SCIP-Inf-1a)			
t	for The Joint Commission.			
1	b. If the Antibiotic			
	Administration Route is equal			
1	to 1 or 2 for any antibiotic dose,			
	continue processing and			
]	proceed to Antibiotic			
	Administration Date. Proceed			
	only with antibiotic doses on			
,	Table 2.1 that are administered			
,	via routes 1 or 2.			
	21.Check Antibiotic			
	Administration Date			
	a. If the Antibiotic			
	Administration Date is equal to			
	Unable to Determine for all			
	antibiotic doses, the case will			
	proceed to a Measure Category			

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
		1 5	cesarean section.
Assignment of D and will be in			
the Measure Population. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
b. If the Antibiotic			
Administration Date is equal to			
a Non Unable to Determine date			
for at least one antibiotic dose,			
continue processing and			
precede to the Antibiotic Days I			
calculation. Note: Proceed only			
with antibiotic doses that have			
an associated non Unable to			
Determine date.			
22.Calculate Antibiotic Days I.			
Antibiotic Days I, in days, is			
equal to the Surgical Incision			
Date minus the Antibiotic			
Administration Date.			
23.Check Antibiotic Days I			
a. If the Antibiotic Days I is			
greater than 1 for at least one			
antibiotic dose, continue			
processing and recheck the ICD-			
9-CM Principal Procedure Code.			
b. If the Antibiotic Days I is less			
than or equal to 1 for all			
antibiotic doses, continue			
processing. Proceed to step 26			
and recheck Antibiotics Days I.			

Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
		1 5	cesarean section.
Do not recheck ICD-9-CM			
Principal Procedure Code or			
Oral Antibiotics.			
24. Recheck ICD-9-CM Principal			
Procedure Code only if the			
Antibiotic Days I is greater than			
1 for at least one antibiotic dose			
a. If the ICD-9-CM Principal			
Procedure Code is not on Table			
5.03, the case will proceed to a			
Measure Category Assignment			
of B and will not be in the			
Measure Population. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
b. If the ICD-9-CM Principal			
Procedure Code is on Table 5.03,			
continue processing and check			
Oral Antibiotics.			
25. Check Oral Antibiotics			
a. If Oral Antibiotics is missing,			
the case will proceed to a			
Measure Category Assignment			
of X and will be rejected. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
b. If Oral Antibiotics equals No,			

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
			cesarean section.
the case will proceed to a			
Measure Category Assignment			
of B and will not be in the			
Measure Population. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
c. If Oral Antibiotics equals Yes,			
continue processing and			
proceed to step 27 and check			
Surgical Incision Time. Do not			
recheck Antibiotic Days I.			
26.Recheck Antibiotic Days I			
a. If the Antibiotic Days I is less			
than zero for all antibiotic doses,			
the case will proceed to a			
Measure Category Assignment			
of D and will be in the Measure			
Population. Stop processing for			
CMS. Proceed to step 36 and			
check the Stratified Measures			
for Overall Rate (SCIP-Inf-1a)			
for The Joint Commission.			
b. If the Antibiotic Days I is			
greater than or equal to zero for			
any antibiotic dose, continue			
processing and proceed to			
Surgical Incision Time.			
27.Check Surgical Incision Time			
a. If the Surgical Incision Time is			
missing, the case will proceed to			

Maintenance Measure 0527:	Endorsed Measure 0270 :	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
		1 7	cesarean section.
a Measure Category			
Assignment of X and will be			
rejected. Stop processing for			
CMS. Proceed to step 36 and			
check the Stratified Measures			
for Overall Rate (SCIP-Inf-1a)			
for The Joint Commission.			
b. If the Surgical Incision Time is			
equal to Unable to Determine,			
the case will proceed to a			
Measure Category Assignment			
of D and will be in the Measure			
Population. Stop processing for			
CMS. Proceed to step 36 and			
check the Stratified Measures			
for Overall Rate (SCIP-Inf-1a)			
for The Joint Commission.			
c. If the Surgical Incision Time is			
equal to a Non Unable to			
Determine Value, continue			
processing and check Antibiotic			
Administration Time.			
28.Check Antibiotic			
Administration Time			
a. If the Antibiotic			
Administration Time equals			
Unable to Determine for all			
antibiotic doses, the case will			
proceed to a Measure Category			
Assignment of D and will be in			
the Measure Population. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			

Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
			cesarean section.
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
b. If the Antibiotic			
Administration Time equals a			
Non Unable to Determine time			
for at least one antibiotic dose,			
continue processing and			
proceed to the Antibiotic			
Timing I calculation. Note:			
Proceed only with antibiotic			
doses that have an associated			
non Unable to Determine time.			
29. Calculate Antibiotic Timing			
I. Antibiotic Timing I, in			
minutes, is equal to the Surgical			
Incision Date and Surgical			
Incision Time minus the			
Antibiotic Administration Date			
and Antibiotic Administration			
Time.			
30. Check Antibiotic Timing I			
a. If the Antibiotic Timing I is			
greater than 1440 minutes for			
any antibiotic dose, continue			
processing and recheck the ICD-			
9-CM Principal Procedure Code.			
b. If the Antibiotic Timing I is			
less than or equal to 1440			
minutes for all antibiotic doses,			
continue processing. Proceed to			
step 33 and recheck Antibiotic			
Timing I. Do not recheck ICD-9-			

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Maintenance Measure 0527:	Endorsed Measure 0270 :	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1	rrsrsrsrsrsrsrsrsrs	physician	incision or at the time of delivery –
		F	cesarean section.
CM Principal Procedure Code			
or Oral Antibiotics.			
31.Recheck ICD-9-CM Principal			
Procedure Code only if the			
Antibiotic Timing I is greater			
than 1440 minutes for any			
antibiotic dose			
a. If the ICD-9-CM Principal			
Procedure Code is not on Table			
5.03, the case will proceed to a			
Measure Category Assignment			
of B and will not be in the			
Measure Population. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
b. If the ICD-9-CM Principal			
Procedure Code is on Table 5.03,			
continue processing and check			
Oral Antibiotics.			
32. Check Oral Antibiotics			
a.If Oral Antibiotics is missing,			
the case will proceed to a			
Measure Category Assignment			
of X and will be rejected. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
b. If Oral Antibiotics equals No,			

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
		1 5	cesarean section.
the case will proceed to a			
Measure Category Assignment			
of B and will not be in the			
Measure Population. Stop			
Specifications Manual for			
National Hospital Inpatient			
Quality Measures			
Discharges 10-01-10 (4Q10)			
through 03-31-11 (1Q11) SCIP-			
Inf-1-18			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
c. If Oral Antibiotics equals Yes,			
continue processing and			
proceed to recheck Antibiotic			
Timing I.			
33.Recheck Antibiotic Timing I			
a. If the Antibiotic Timing I is			
greater than or equal to zero			
minutes and less than or equal			
to 60 minutes for at least one			
antibiotic dose, the case will			
proceed to a Measure Category			
Assignment of E and will be in			
the Numerator Population. Stop			
processing for CMS. Proceed to			
step 36 and check the Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			

Maintenance Measure 0527:	Endorsed Measure 0270 :	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
		1 5	cesarean section.
b. If the Antibiotic Timing I is			
less than zero minutes or greater			
than 60 minutes for all antibiotic			
doses, continue processing and			
recheck Antibiotic Name.			
34.Recheck Antibiotic Name			
a. If the Antibiotic Name is on			
Table 3.8 or Table 3.10 for at			
least one dose, continue			
processing and recheck			
Antibiotic Timing I.			
b. If the Antibiotic Name is not			
on Table 3.8 or Table 3.10 for			
any dose, the case will proceed			
to a Measure Category			
Assignment of D and will be in			
the Measure Population. Do not			
recheck Antibiotic Timing I.			
Stop processing for CMS.			
Proceed to step 36 and check the			
Stratified Measures for Overall			
Rate (SCIP-Inf-1a) for The Joint			
Commission.			
35. Recheck Antibiotic Timing I			
a. If the Antibiotic Timing I is			
greater than 60 minutes and less			
than or equal to 120 minutes for			
at least one antibiotic dose on			
Table 3.8 or Table 3.10, the case			
will proceed to a Measure			
Category Assignment of E and			
will be in the Numerator			
Population. Stop processing for			

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
			cesarean section.
CMS. Proceed to Stratified			
Measures for Overall Rate			
(SCIP-Inf-1a) for The Joint			
Commission.			
b. If the Antibiotic Timing I is			
less than zero minutes or greater			
than 120 minutes for all			
antibiotic doses on Table 3.8 or			
Table 3.10, the case will proceed			
to a Measure Category			
Assignment of D and will be in			
the Measure Population. Stop			
processing for CMS. Proceed to			
Stratified Measures for Overall			
Rate (SCIP-Inf-1a) for The Joint			
Commission.			
36. For The Joint Commission			
Only, continue processing for			
the Stratified Measures. Note:			
Initialize the Measure Category			
Assignment for each strata			
measure (b-g) to equal B, not in			
the Measure Population. Do not			
change the Measure Category			
Assignment that was already			
calculated for the overall rate			
(SCIP-Inf-1a). The rest of the			
algorithm will reset the			
appropriate Measure Category			
Assignment to be equal to the			
overall rate's (SCIP-Inf-1a)			
Measure Category Assignment.			
37. Check Overall Rate Category			

M Pr w in	Maintenance Measure 0527 : rophylactic antibiotic received within 1 hour prior to surgical ncision SCIP-Inf-1	Endorsed Measure 0270: Timing of antibiotic prophylaxis- ordering physician	Endorsed Measure 0269: Timing of prophylactic antibiotics - administering physician	Endorsed Measure 0472: Prophylactic antibiotic received within one hour prior to surgical incision or at the time of delivery –
				cesarean section.
A	ssignment			
a.	. If the Overall Rate Category			
A	Assignment is equal to B or X,			
se	et the Measure Category			
A	Assignment for the strata			
m	CID L (11) to 1P			
50	CIP-Inf-In) to equal B, not in			
th	he Measure Population. Stop			
pr h	If the Original Rate Category			
D.	. If the Overall Kate Category			
	optimus processing and check			
th	pe ICD-9-CM Principal			
P ₁	rocedure Code			
38	8 Check ICD-9-CM Principal			
P	rocedure Code			
a	If the ICD-9-CM Principal			
Pi	rocedure Code is on Table 5.01.			
fo	or Stratified Measure SCIP-Inf-			
11	b, set the Measure Category			
A	ssignment for measure SCIP-			
In	nf-1b to equal the Measure			
Ca	Category Assignment for			
m	neasure SCIP-Inf-1a. Stop			
pi	rocessing.			
b.	. If the ICD-9-CM Principal			
Pı	rocedure Code is on Table 5.02			
or	r 5.03 or 5.04 or 5.05 or 5.06 or			
5.	.07 or 5.08, continue processing			
ar	nd recheck the ICD-9-CM			
Pi	rincipal Procedure Code.			
39	9. Recheck ICD-9-CM Principal			
Pi	rocedure Code			

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Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
Prophylactic antibiotic received	Timing of antibiotic	Timing of prophylactic	Prophylactic antibiotic received
within 1 hour prior to surgical	prophylaxis- ordering physician	antibiotics - administering	within one hour prior to surgical
incision SCIP-Inf-1		physician	incision or at the time of delivery –
		1 5	cesarean section.
a. If the ICD-9-CM Principal			
Procedure Code is on Table 5.02,			
for Stratified Measure SCIP-Inf-			
1c, set the Measure Category			
Assignment for measure SCIP-			
Inf-1c to equal the Measure			
Category Assignment for			
measure SCIP-Inf-1a. Stop			
processing.			
b. If the ICD-9-CM Principal			
Procedure Code is on Table 5.03			
or 5.04 or 5.05 or 5.06 or 5.07 or			
5.08, continue processing and			
recheck the ICD-9-CM Principal			
Procedure Code.			
40. Recheck ICD-9-CM Principal			
Procedure Code			
a. If the ICD-9-CM Principal			
Procedure Code is on Table 5.04,			
for Stratified Measure SCIP-Inf-			
1d, set the Measure Category			
Assignment for measure SCIP-			
Inf-1d to equal the Measure			
Category Assignment for			
measure SCIP-Inf-1a. Stop			
processing.			
b. If the ICD-9-CM Principal			
Procedure Code is on Table 5.03			
or 5.05 or 5.06 or 5.07 or 5.08,			
continue processing and recheck			
the ICD-9-CM Principal			
Procedure Code.			
41. Recheck ICD-9-CM Principal			

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Maintenance Measur	e 0527: Endorsed Measur	e 0270: Endorsed Meas	sure 0269: Endo	orsed Measure 0472:
Prophylactic antibioti	c received Timing of antibiot	ic Timing of prop	hylactic Prop	hylactic antibiotic received
within 1 hour prior to	surgical prophylaxis- order	ring physician antibiotics - adı	ministering with	in one hour prior to surgical
incision SCIP-Inf-1		physician	incisi	ion or at the time of delivery –
			cesar	ean section.
Procedure Code				
a. If the ICD-9-CM Pr	incipal			
Procedure Code is on	Table 5.05,			
for Stratified Measure	SCIP-Inf-			
1e, set the Measure Ca	ategory			
Assignment for measure	ure			
SCIP-Inf-1e to equal t	he			
Measure Category As	signment			
for measure SCIP-Inf-	la. Stop			
processing.				
b. If the ICD-9-CM Pr	incipal			
Procedure Code is on	Table 5.03			
or 5.06 or 5.07 or 5.08,	continue			
processing and reched	ck the ICD-			
9-CM Principal Proce	dure Code.			
42. Recheck ICD-9-CM	A Principal			
a If the ICD 9 CM Pr	incipal			
a. If the ICD-9-Civi FI	Table 5.02			
for Stratified Measure	SCIP Inf			
16 Stratified Measure Ca	togory			
Assignment for measure	are SCIP-			
Inf-1f to equal the Me	asure			
Category Assignment	for			
measure SCIP-Inf-1a.	Stop			
processing.	1			
b. If the ICD-9-CM Pr	incipal			
Procedure Code is on	Table 5.06			
or 5.07 or 5.08, continu	ue			
processing and rechee	ck the ICD-			
9-CM Principal Proce	dure Code.			
43. Recheck ICD-9-CM	/I Principal			
Procedure Code				

		- · · · · · · · · · · · · · · · · · · ·		
	Maintenance Measure 0527:	Endorsed Measure 0270:	Endorsed Measure 0269:	Endorsed Measure 0472:
	within 1 hour prior to surgical	manhulavia andoring physician	antibiotica administering	within and hour prior to surgical
	in sisting CCID laf 1	prophylaxis- ordering physician	anubioucs - auministering	incicion on at the time of delivery
	incision SCIP-Inf-1		physician	incision or at the time of delivery –
				cesarean section.
	a. If the ICD-9-CM Principal			
	Procedure Code is on Table 5.06			
	or 5.07, for Stratified Measure			
	SCIP-Inf-1g, set the Measure			
	Category Assignment for			
	measure SCIP-Inf-1g to equal			
	the Measure Category			
	Assignment for measure SCIP-			
	Inf-1a. Stop processing.			
	b. If the ICD-9-CM Principal			
	Procedure Code is on Table 5.08,			
	for Stratified Measure SCIP-Inf-			
	1h, set the Measure Category			
	Assignment for measure SCIP-			
	Inf-1h to equal the Measure			
	Category Assignment for			
	measure SCIP-Inf-1a. Stop			
	processing.			
Data Source	Electronic administrative	Electronic administrative	Electronic administrative	Lab data, paper medical record/flow-
	data/claims, paper medical	data/claims, lab data, paper	data/claims	sheet, survey: patient
	record/flow-sheet	medical record/flow-sheet		
Level of	Facility/agency	Clinicians: Individual, group	Clinicians: individual	Facility/agency
Measurement				
/Analysis				
Care Settings	Hospital	Hospital, Ambulatory care:	Hospital, Ambulatory care:	Hospital
		Ambulatory surgery center	Ambulatory surgery center	

1 Statin Medication

	Maintenance Measure 0118: Anti-lipid	New Candidate Measure 1519: Statin
	treatment discharge	therapy at discharge after lower
Status	Currently undergoing review	extremity bypass (LEB)
Status	Currently undergoing review	Currently undergoing review
Steward	Society of Thoracic Surgeons	Society of Vascular Surgery
Description	Percent of patients aged 18 years and older undergoing isolated CABG who were discharged on a statin or other lipid-lowering regimen.	Percentage of patients aged 18 years and older undergoing infrainguinal lower extremity bypass who are prescribed a statin medication at discharge. This measure is proposed for both hospitals and individual providers.
Type of Measure	Process	Process
Numerator	Number of patients undergoing isolated CABG who were discharged on a statin or other lipid-lowering regimen.	Patients undergoing infrainguinal lower extremity bypass who are prescribed a statin medication at discharge.
	Time window:	Time window: Since hospitals have sufficient annual volume to generate accurate reporting levels, these are proposed for reporting every 12 months for hospital. Since surgeons have lower individual volume, we recommend annual reporting of the last 50 consecutive procedures, which may span more than one year, with suppression if < 10 procedures (i.e., reported as too low volume to report).
Numerator Details	Number of isolated CABG procedures in which discharge lipid lowering medication [DCLipid (STS Adult Cardiac Surgery Database Version 2.73)] is marked "yes"	ANY registry that includes anatomic details or CPT procedure codes is required to identify patients for numerator inclusion. The Society for Vascular Surgery Vascular Quality Initiative (SVS VQI) and the Vascular Study Group of New England (VSGNE) registries capture detailed anatomic information but the measure is not limited to these registries. Infrainguinal lower extremity bypass is defined as a bypass beginning at or below the external iliac artery and extending into the ipsilateral leg. It includes procedures with CPT codes 35656,

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	Maintenance Measure 0118: Anti-lipid	New Candidate Measure 1519: Statin
	treatment discharge	therapy at discharge after lower
		extremity bypass (LEB)
		35556, 35583, 35666, 35566, 35585, 35671,
		35571, 35587. The numerator is
		calculated as the number of patients age
		18 and over undergoing such a
		procedure who are prescribed a statin
		medication at the time of discharge,
		which is also captured in the above
		registries.
Denominator	All patients undergoing isolated CABG.	All patients aged 18 years and older
		undergoing lower extremity bypass as
		defined above who are discharged alive,
		excluding those patients who are
		intolerant to statins.
	Time window: 12 months	Time window: Since hospitals have
		sufficient annual volume to generate
		accurate reporting levels, these are
		proposed for reporting every 12 months
		for hospital. Since surgeons have lower
		individual volume, we recommend
		annual reporting of the last 50
		consecutive procedures, which may
		span more than one year, with
		suppression if < 10 procedures (i.e.,
		reported as too low volume to report).
Denominator	Female, Male; 18 yrs and older	Female, Male; 18 years or older
Categories		
Denominator Details	Number of isolated CABG procedures	ANY registry that includes anatomic
	excluding cases with in-hospital	details or CP1 procedure codes is
	mortality or cases for which discharge	required to identify patients for
	anti-lipid treatment use was	denominator inclusion. The Society for
	contraindicated.	Vascular Surgery Vascular Quality
	Isolated CAPC is determined as a	of New England registring contrary
	Isolated CADG is determined as a	of New England registries capture
	procedure for which all of the following	detailed anatomic information but the
	apply: $On C \land P$ is mariled " $V \circ o$ "	measure is not limited to these
	- OpCAD is marked fes	by here a set in the set of the s
	- (VADFICEIS Marked INO OF	by pass is defined as a by pass beginning
	"Vos Implanted" and UpplVAD is	at or below the external fild aftery and extending into the insilatoral log. It
	marked "wee")	includes precedures with CPT codes
	- OCar ASDTy is marked "DEO" or	35656 35556 35582 35666 35566 2556
	"missing"	35671 35571 35587 Only nationts who
	- OCar A Fib A Proc is marked "primarily	are discharged alive are included in the
	enicardial" or "missing" and	denominator and nationts who are
	- OnValue VSAV VSAVPr	intolerant to stating are evoluted as
	- Opvalve, vorv, vorvrr,	intolerant to statilis are excluded, as

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	Maintenance Measure 0118: Anti-lipid	New Candidate Measure 1519: Statin
	treatment discharge	therapy at discharge after lower
		extremity bypass (LEB)
	ResectSubA, VSMV, VSMVPr,	described below.
	OpTricus, OpPulm, OpONCard,	
	OCarLVA, OCarVSD, OCarSVR,	
	OCarCong, OCarTrma, OCarCrTx,	
	OCAoProcType, EndoProc, OCTumor,	
	OCPulThromDis, OCarOthr are all	
	marked "no" or "missing"	
Exclusions	Cases are removed from the	Chart documentation that patient was
	denominator if there was an in-hospital	not an eligible candidate for statin
	mortality or if discharge anti-lipid	therapy due to known drug intolerance,
	treatment was contraindicated.	or patient died before discharge.
Exclusion Details	Mortality Discharge Status (MtDCStat),	Chart documentation that patient was
	Mortality Date (MtDate), and Discharge	not an eligible candidate for statin
	Date (DischDt) indicate an in-hospital	therapy due to known drug intolerance,
	mortality; DCLipid is marked as	or patient died before discharge. These
	"Contraindicated"	data are captured in the SVS VQI and
		VSGNE registries.
Risk Adjustment	No risk adjustment necessary	No risk adjustment necessary
Stratification		Not required
Type Score	Rate/proportion	Rate/proportion
Algorithm		All patients age 18 and older
		undergoing infrainguinal LEB who
		were prescribed statin at discharge
		divided by (all patients over 18
		undergoing infrainguinal LEB minus
		those intolerant to statins minus those
		who died before discharge).
Data Source	Registry data	Registry data
Level of Measurement	Clinicians: Group; Facility/agency;	Clinicians: Individual, group;
/Analysis	Population: National,	Facility/agency; Can be measured at all
-	regional/network, states, counties or	levels
	cities	
Care Settings	Hospital	Hospital

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