CONFERENCE CALLS OF THE SURGERY ENDORSEMENT MAINTENANCE 2010 STEERING COMMITTEE

August 3, 2011

Committee Members Present: David Torchiana, MD (co-chair), Massachusetts General Physicians Organization; Nasim Afsar-manesh, MD, UCLA Medical Center; Curtis Collins, PharmD, MS, BCPS AQ-ID, University of Michigan Health System; Peter Dillon, MD, MSc, Penn State Hershey Medical Center; Richard Dutton, MD, MBA, Anesthesia Quality Institute; Paula Graling, DNP, RN, CNS, CNOR, INOVA Fairfax Hospital; Vivienne Halpern, MD, FACS, Carl T Hayden VA Medical Center; Dennis Rivenburgh, MS, ATC, PA-C, St. Anthony's Primary Care; Christopher Saigal, MD, MPH, FACS, UCLA; Allan Siperstein, MD, Cleveland Clinic; Carol Wilhoit, MD, MS, Blue Cross Blue Shield of Illinois.

NQF Staff Present: Heidi Bossley, MSN, MBA, Vice President for Performance Measures; Alexis Forman, MPH, Senior Project Manager; Melinda Murphy, RN, MS, NE-BC, Senior Director; Jessica Weber, Project Analyst, MPH.

Measure Developers Present: Lindsey Adams, Society for Vascular Surgeons; John Bott, Agency for Healthcare Research and Quality; Sheryl Davies, Stanford University; Jane Han, Society of Thoracic Surgeons; Flora Lum, American Academy of Ophthalmology; Kathleen Hewitt, American College of Cardiology, Donna McDonald, Society of Thoracic Surgeons; Patrick Romano, University of California-Davis; Donna Slosburg, ASC Quality Collaboration; Susan White, ASC Quality Collaboration; Kim Wood, Surgical Care Affiliates.

August 4, 2011

Committee Members Present: Arden Morris, MD, MPH, FACS (co-chair), University of Michigan; Nasim Afsar-manesh, MD, UCLA Medical Center; Robert Cima, MD, MA, FACS, FASCRS, Mayo Clinic; Dennis Rivenburgh, MS, ATC, PA-C, St. Anthony's Primary Care; Renae Stafford, MD, MPH, FACS, University of North Carolina-Chapel Hill; Carol Wilhoit, MD, MS, Blue Cross Blue Shield of Illinois.

NQF Staff Present: Heidi Bossley, MSN, MBA, Vice President for Performance Measures; Alexis Forman, MPH, Senior Project Manager; Melinda Murphy, RN, MS, NE-BC, Senior Director; Jessica Weber, Project Analyst, MPH.

Measure Developers Present: John Bott, Agency for Healthcare Research and Quality; Sheryl Davies, Stanford University; Jeffrey Geppert, Agency for Healthcare Research and Quality; Jane Han, The Society of Thoracic Surgeons; Kelsey Kurth, American Academy of Ophthalmology; Flora Lum, American Academy of Ophthalmology; Bijan Niknam, Children's Hospital of Philadelphia; Patrick Romano, University of California-Davis; Jeffrey Silber, Children's Hospital of Philadelphia; Kim Wood, Surgical Care Affiliates.

The audio recording from the meeting can be found <u>here</u>.

WELCOME AND INTRODUCTIONS

Ms. Forman welcomed the Steering Committee and provided a brief overview of the agenda. The purpose of this call was to:

• continue reviewing the measure developer response to the Committee's suggested modifications for Phase II measures in preparation for final recommendations;

- identify and evaluate competing measures to select the best measure for endorsement recommendation; and
- identify and evaluate related measures to determine if harmonization is needed.

The measure developers/stewards were available on the call to respond to questions from the Committee as needed.

MEASURE EVALUATION SUMMARY

The following summary includes the Committee's original evaluation of the measures and any follow-up since the May 4-5 in-person meeting.

The Steering Committee further considered the following measures:

- **0515**: Ambulatory surgery patients with appropriate method of hair removal
- 0367: Post operative wound dehiscence (PDI 11) (risk adjusted)
- 0368: Post operative wound dehiscence (PSI 14) (risk adjusted)

At its May meeting, the Committee determined that measure 0515 met the NQF criteria and should be recommended for endorsement and placed in reserve status based on the high rate of performance. Subsequently, the developer of measure 0515 provided a written request asking the Committee to reconsider its recommendation.

At the May 4-5 meeting, the Committee expressed concerns about the evidence cited in the measure submission forms of measures 0367 and 0368. At that meeting, the Committee's vote was that the measures did not pass the Importance to Measure and Report criterion. Following the meeting, the developer provided additional clarifying information and requested that the Committee reconsider its recommendation.

The Steering Committee reviewed the measure developers' responses to questions and proposed conditions for the following measures:

- 0125: Timing of antibiotic prophylaxis for cardiac surgery patients
- **0264**: Prophylactic intravenous (IV) antibiotic timing
- 0357: Abdominal aortic aneurysm volume (AAA) (IQI 4)
- 0359: Abdominal aortic artery (AAA) repair mortality rate (IQI 11) (risk adjusted)

Measures and Evaluations

The summary below displays follow-up items from 7 measures considered at the May 4-5 in-person meeting, including actions taken by the Steering Committee on conditional recommendations or preliminary review. (See the <u>summary</u> from the May 4-5 meeting for the original evaluation of the measures.)

Information related to the measures that were discussed on this call is highlighted.

LEGEND: Y= Yes; N = No; A = Abstain; C = Completely; P = Partially; M = Minimally; N = Not at all

3
∠
7
_
•

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

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

Description: Count of adult hospital discharges in a one year time period with a procedure code of AAA repair.

Numerator Statement: Discharges, age 18 years and older, with an abdominal aortic aneurysm (AAA) repair procedure and a primary

or secondary diagnosis of AAA.

Denominator Statement: Not applicable.

Exclusions: Not applicable.

Adjustment/Stratification: no risk adjustment necessary/ The stratification of the denominator for open vs. endovascular and ruptured vs. unruptured involve the following codes in the denominator specification:

AAA Repair (

ICD-9-CM Procedure Codes:

OPEN:

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

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

'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.
- 2. <u>2a. 11 Stratification Details/Variables</u>: 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

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

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. 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.

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

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

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:

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

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

Description: Percent of adult hospital 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 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

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

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

Gender, age (5-year age groups), race/ ethnicity, primary payer, custom

The stratification of the denominator for open vs. endovascular and ruptured vs. unruptured involves the following codes in the denominator specification:

AAA Repair

ICD-9-CM Procedure Codes:

OPEN

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

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

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

ENDOVASCULAR

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

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: 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 initially did not pass the importance criterion; however, the Steering Committee engaged in extensive discussion of the volume and mortality measures as noted in review of 0357 above. The Committee asked for additional information and with that information, 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. <u>2a.11 Stratification Details/Variables</u>: a) Stratify the measure by endovascular and open repairs as well as emergency vs. elective repair; b) specify the risk stratification model used; 3) identify settings where the model has been validated in addition to the training data set in which it was developed or provide other supporting data as to its validity.
- 2. <u>2b.3 Testing Results</u>: Please provide information about signal to noise ratio.

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:

- a) As noted above, AHRQ agrees to stratify the measure by endovascular and open repairs; in addition, AHRQ agrees to stratify by ruptured vs. un-ruptured aneurysm (which is what we assume you mean by emergency vs. elective repair); but AHRQ again notes that additional methodological development will be required to ensure the measures have adequate reliability; b) the risk stratification model is specified below; c) the model has been validated on the State Inpatient Databases (SID), which consists of hospital discharge data from 40 states (constituting about 90% of hospital discharges in the U.S) for the years 2001-2008
- 2. The signal to noise ratio is the ratio of the between hospital variance (signal) to the within hospital variance (noise). The formula is signal / (signal + noise). The ratio itself is only a diagnostic for the degree of variance in the risk-adjusted rate systematically associated with the provider. Therefore, what matters is the magnitude of the variance in the "smoothed" rate (that is, the variance in the risk-adjusted rate after the application of the univariate shrinkage estimator based on the signal

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

ratio). What the data demonstrate is systematic variation in the provider level rate of 2.6 to 7.6 per 100 from the 5th to 95th percentile <u>after</u> a signal ratio of 0.307 is applied as the shrinkage estimator (that is, after accounting for variation due to random factors).

Table 3. Risk Adjustment Coefficients for IQI #11— AAA Repair Mortality

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
Intercept		1	-6.6044	0.1713	1486.04	0.0000
Sex	Female	1	0.4539	0.0747	36.95	0.0000
Age	65 to 74	1	0.4879	0.1072	20.72	0.0000
Age	75 to 79	1	0.8737	0.1201	52.97	0.0000
Age	80 to 84	1	1.1092	0.1200	85.50	0.0000
Age	85+	1	1.4440	0.1359	112.97	0.0000
APR-DRG	'1691' to '1692'	1	1.6789	0.1623	107.05	0.0000
APR-DRG	'1693' to '1694'	1	3.9127	0.1523	659.72	0.0000
APR-DRG	'1733' to '1734'	1	3.1568	0.1676	354.55	0.0000
MDC	5	1	2.6400	0.1483	316.85	0.0000
MDC	Other	1	2.9536	0.2252	172.05	0.0000
RUPTURED		1	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 (24.74percent) 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.

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

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

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:

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

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:

0515 Ambulatory surgery patients with appropriate method of hair removal

For More Information: 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: Recommended and placement in Reserve Status

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: C-7; P-9; M-2; N-1

(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 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.

0125 Timing 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 who received prophylactic antibiotics within one hour of surgical incision or start of procedure if no incision was required (two hours if receiving vancomycin or fluoroquinolone)

Numerator Statement: Number of patients undergoing cardiac surgery patients who received prophylactic antibiotics within one hour of surgical incision or start of procedure if no incision was required (two hours if vancomycin or fluoroquinolone)

0125 Timing of antibiotic prophylaxis for cardiac surgery patients

Denominator Statement: Number of patients undergoing cardiac surgery

Exclusions: Cases are removed from the denominator if the patient had a documented contraindication or rationale for not administering antibiotic in medical record.

Other 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 were receiving antibiotics more than 24 hours prior to surgery
- -Patients who were receiving antibiotics within 24 hours prior to arrival

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 data

Measure Steward: Society of Thoracic Surgeons | 633 North Saint Clair Street, Suite 2320 | Chicago | Illinois | 60611

Steering Committee Recommendation for Endorsement: Conditional Y-17; N-2; A-0

Rationale: The evidence supporting the measure was considered strong.

If applicable, Conditions/Questions for Developer:

- 1. 1c.5 Rating of Strength/Quality of Evidence: Address the rating of evidence.
- 2. 2a.1 Numerator Statement: Provide the exact timing of the prophylactic antibiotic.

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

Developer Response:

- 1. This is addressed in the measure submission form.
- 2. Exact timing was provided in the original measure submission form.

Steering Committee Follow-Up:

The Steering Committee requested additional information on the gaps and the link to outcomes, noting that individual measures may not have the effect on SSI rates that bundles can. Members also stated that antibiotic stewardship should be addressed. With developer response, the Committee members agreed they had an adequate response to their questions. (Also see related and competing measure discussion in later section of this document.)

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

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

Rationale: The Committee noted controversy regarding the one hour timeframe for antibiotic prophylaxis. The performance gap for the measure was considered small but the outcome of mediastinitis and potentially death suggests measuring continued improvement effort is warranted.

2. Scientific Acceptability of Measure Properties: C-11; P-8; 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 Committee noted that laparoscopic procedures were excluded but in the future would be included in the measure.

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 Committee indicated that there were similar measures that may need to be harmonized including:

#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

#0527: Prophylactic antibiotic received within 1 hour prior to surgical incision SCIP-Inf-1.

4. Feasibility: C-15; 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: While data for the measure is drawn from registry, the measure was considered feasible.

0264 Prophylactic intravenous (IV) antibiotic timing

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

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

0264 Prophylactic intravenous (IV) antibiotic timing

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.

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: Conditional Y-18; N-1; A-0

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.'

2. <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

However, if the measure will not continue to be endorsed in the absence of the modification suggested above, we would their 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

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 eligible 5,200 institutions report.

2. Scientific Acceptability of Measure Properties: C-10; P-9; 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 Committee questioned why the measure focused on antibiotics being provided in a one hour timeframe.

3. Usability: C-12; P-7; M-0; N-0

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

0264 Prophylactic intravenous (IV) antibiotic timing

measures)

Rationale: The Committee described the measure as usable.

4. Feasibility: C-13; 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 uses procedure codes, which makes it less burdensome for ambulatory surgical centers to collect.

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 an procedure code for transplant
- 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 years 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

Surgical Class DRG

Admission Type

Strata 1. Clean Procedures Elective

1

Elective

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 - TITI F

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
- 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
- 056 RHINOPLASTY
- 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
- 063 OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES
- DRG TITLE
- 103 HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM
- 104 CARDIAC VALVE & OTH MAJOR CARDIOTHORACIC PROC W CARD CATH
- 105 CARDIAC VALVE & OTH MAJOR CARDIOTHORACIC PROC W/O CARD CATH
- 106 CORONARY BYPASS W PTCA
- 108 OTHER CARDIOTHORACIC PROCEDURES
- 110 MAJOR CARDIOVASCULAR PROCEDURES W CC
- 111 MAJOR CARDIOVASCULAR PROCEDURES W/O CC
- 113 AMPUTATION FOR CIRC SYSTEM DISORDERS EXCEPT UPPER LIMB & TOE
- 114 UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS
- 117 CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT
- 118 CARDIAC PACEMAKER DEVICE REPLACEMENT
- 119 VEIN LIGATION & STRIPPING
- 120 OTHER CIRCULATORY SYSTEM O.R. PROCEDURES
- 163 HERNIA PROCEDURES AGE 0-17
- 168 MOUTH 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 GRFT 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
- 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 AMPUTAT OF LOWER LIMB FOR ENDOCRINE.NUTRIT.& METABOL DISORDERS
- 286 ADRENAL & PITUITARY PROCEDURES
- 287 SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DISORDERS
- 289 PARATHYROID PROCEDURES
- 290 THYROID PROCEDURES
- 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 PDX OF INFECTION W CC
- 502 KNEE PROCEDURES W PDX OF INFECTION W/O CC
- 503 KNEE PROCEDURES W/O PDX OF INFECTION
- 515 CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH
- DRG TITLE
- 518 PERC CARDIO PROC W/O CORONARY ARTERY 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
- 543 CRANIOTOMY W MAJOR DEVICE IMPLANT OR ACUTE COMPLEX CNS PRINCIPAL DIAGNOSIS
- 544 MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY
- 545 REVISION OF HIP OR KNEE REPLACEMENT
- **DRG TITLE**
- 546 SPINAL FUSION EXC CERV WITH CURVATURE OF THE SPINE OR MALIG
- 547 CORONARY BYPASS W CARDIAC CATH W MAJOR CV DX
- 548 CORONARY BYPASS W CARDIAC CATH W/O MAJOR CV DX
- 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

0367 Post operative wound dehiscence (PDI 11)

- 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.qualityindicators.ahrq.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
- 133 OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W CC/MCC
- 134 OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
- 136 SINUS & MASTOID PROCEDURES W/O CC/MCC
- 137 MOUTH PROCEDURES W CC/MCC
- 138 MOUTH PROCEDURES W/O CC/MCC
- 139 SALIVARY GLAND PROCEDURES
- 215 OTHER HEART ASSIST SYSTEM IMPLANT
- 216 CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W MCC
- 217 CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W CC
- 218 CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W/O CC/MCC
- 219 CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W/O CARD CATH W MCC
- 220 CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W/O CARD CATH W CC
- 221 CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W/O CARD CATH W/O CC/MCC

0367 Post operative wound dehiscence (PDI 11)

- 222 CARDIAC DEFIB IMPLANT W CARDIAC CATH W AMI/HF/SHOCK W MCC
- 223 CARDIAC DEFIB IMPLANT W CARDIAC CATH W AMI/HF/SHOCK W/O MCC
- 224 CARDIAC DEFIB IMPLANT W CARDIAC CATH W/O AMI/HF/SHOCK W MCC
- 225 CARDIAC DEFIB IMPLANT W CARDIAC CATH W/O AMI/HF/SHOCK W/O MCC

MS-DRG - TITLE

- 226 CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH W MCC
- 227 CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH W/O MCC
- 228 OTHER CARDIOTHORACIC PROCEDURES W MCC
- 229 OTHER CARDIOTHORACIC PROCEDURES W CC
- 230 OTHER CARDIOTHORACIC PROCEDURES W/O CC/MCC
- 231 CORONARY BYPASS W PTCA W MCC
- 232 CORONARY BYPASS W PTCA W/O MCC
- 233 CORONARY BYPASS W CARDIAC CATH W MCC
- 234 CORONARY BYPASS W CARDIAC CATH W/O MCC
- 235 CORONARY BYPASS W/O CARDIAC CATH W MCC
- 236 CORONARY BYPASS W/O CARDIAC CATH W/O MCC
- 237 MAJOR CARDIOVASC PROCEDURES W MCC OR THORACIC AORTIC ANUERYSM REPAIR
- 238 MAJOR CARDIOVASCULAR PROCEDURES W/O MCC
- 239 AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W MCC
- 240 AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W CC
- 241 AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W/O CC/MCC
- 242 PERMANENT CARDIAC PACEMAKER IMPLANT W MCC
- 243 PERMANENT CARDIAC PACEMAKER IMPLANT W CC
- 244 PERMANENT CARDIAC PACEMAKER IMPLANT W/O CC/MCC
- 245 AICD LEAD & GENERATOR PROCEDURES
- 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

DRG - TITLE

- 518 PERC CARDIO PROC W/O CORONARY ARTERY 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
- 543 CRANIOTOMY W MAJOR DEVICE IMPLANT OR ACUTE COMPLEX CNS PRINCIPAL DIAGNOSIS
- 544 MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY
- 545 REVISION OF HIP OR KNEE REPLACEMENT
- DRG TITLE
- 546 SPINAL FUSION EXC CERV WITH CURVATURE OF THE SPINE OR MALIG
- 547 CORONARY BYPASS W CARDIAC CATH W MAJOR CV DX
- 548 CORONARY BYPASS W CARDIAC CATH W/O MAJOR CV DX
- 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

0367 Post operative wound dehiscence (PDI 11)

- 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.qualityindicators.ahrq.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
- 133 OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W CC/MCC
- 134 OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
- 136 SINUS & MASTOID PROCEDURES W/O CC/MCC
- 137 MOUTH PROCEDURES W CC/MCC
- 138 MOUTH PROCEDURES W/O CC/MCC
- 139 SALIVARY GLAND PROCEDURES
- 215 OTHER HEART ASSIST SYSTEM IMPLANT
- 216 CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W MCC

0367 Post operative wound dehiscence (PDI 11)

- 217 CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W CC
- 218 CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W/O CC/MCC
- 219 CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W/O CARD CATH W MCC
- 220 CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W/O CARD CATH W CC
- 221 CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W/O CARD CATH W/O CC/MCC
- 222 CARDIAC DEFIB IMPLANT W CARDIAC CATH W AMI/HF/SHOCK W MCC
- 223 CARDIAC DEFIB IMPLANT W CARDIAC CATH W AMI/HF/SHOCK W/O MCC
- 224 CARDIAC DEFIB IMPLANT W CARDIAC CATH W/O AMI/HF/SHOCK W MCC
- 225 CARDIAC DEFIB IMPLANT W CARDIAC CATH W/O AMI/HF/SHOCK W/O MCC
- MS-DRG TITLE
- 226 CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH W MCC
- 227 CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH W/O MCC
- 228 OTHER CARDIOTHORACIC PROCEDURES W MCC
- 229 OTHER CARDIOTHORACIC PROCEDURES W CC
- 230 OTHER CARDIOTHORACIC PROCEDURES W/O CC/MCC
- 231 CORONARY BYPASS W PTCA W MCC
- 232 CORONARY BYPASS W PTCA W/O MCC
- 233 CORONARY BYPASS W CARDIAC CATH W MCC
- 234 CORONARY BYPASS W CARDIAC CATH W/O MCC
- 235 CORONARY BYPASS W/O CARDIAC CATH W MCC
- 236 CORONARY BYPASS W/O CARDIAC CATH W/O MCC
- 237 MAJOR CARDIOVASC PROCEDURES W MCC OR THORACIC AORTIC ANUERYSM REPAIR
- 238 MAJOR CARDIOVASCULAR PROCEDURES W/O MCC
- 239 AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W MCC
- 240 AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W CC
- 241 AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W/O CC/MCC
- 242 PERMANENT CARDIAC PACEMAKER IMPLANT W MCC
- 243 PERMANENT CARDIAC PACEMAKER IMPLANT W CC
- 244 PERMANENT CARDIAC PACEMAKER IMPLANT W/O CC/MCC
- 245 AICD LEAD & GENERATOR PROCEDURES
- 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
- 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.qualityindicators.ahrq.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
- 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
- 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

NATIONAL QUALITY FORUM 0367 Post operative wound dehiscence (PDI 11) 493 - LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W CC 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 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. 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 TRANSPLANT 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 W USE OF THROMBOLYTIC AGENT W MCC 062 - ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC AGENT W CC 063 - ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC AGENT W/O CC/MCC 163 - MAJOR CHEST PROCEDURES W MCC 164 - MAJOR CHEST PROCEDURES W CC 165 - MAJOR 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 PROC W CC 329 - MAJOR SMALL & LARGE BOWEL PROCEDURES W MCC 330 - MAJOR SMALL & LARGE BOWEL PROCEDURES W CC 331 - MAJOR SMALL & LARGE BOWEL PROCEDURES W/O CC/MCC 332 - RECTAL RESECTION W MCC 333 - RECTAL RESECTION W CC 334 - RECTAL RESECTION W/O CC/MCC MS-DRG - TITLE 335 - PERITONEAL ADHESIOLYSIS W MCC 336 PERITONEAL ADHESIOLYSIS W CC 337 - PERITONEAL ADHESIOLYSIS W/O CC/MCC 341 - APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W MCC 342 - APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W CC 343 - APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC/MCC

344 - MINOR SMALL & LARGE BOWEL PROCEDURES W MCC 345 - MINOR SMALL & LARGE BOWEL PROCEDURES W CC 346 - MINOR SMALL & LARGE BOWEL PROCEDURES W/O CC/MCC

347 - ANAL & STOMAL PROCEDURES W MCC 348 - ANAL & STOMAL PROCEDURES W CC

NATIONAL QUALITY FORUM 0367 Post operative wound dehiscence (PDI 11) 349 - ANAL & STOMAL PROCEDURES W/O CC/MCC 356 - OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W MCC 357 - OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W CC 358 - OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC/MCC 405 - PANCREAS, LIVER & SHUNT PROCEDURES W MCC 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 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 CHOLECYSTECTOMY 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 HEPATOBILIARY OR PANCREAS O.R. PROCEDURES W MCC 424 - OTHER HEPATOBILIARY OR PANCREAS O.R. PROCEDURES W CC 425 - OTHER HEPATOBILIARY OR PANCREAS O.R. PROCEDURES W/O CC/MCC 576 - SKIN GRAFT &/OR DEBRID EXC FOR SKIN ULCER OR CELLULITIS W MCC 577 - SKIN GRAFT &/OR DEBRID EXC FOR SKIN ULCER OR CELLULITIS W CC 578 - SKIN GRAFT &/OR DEBRID EXC FOR SKIN ULCER OR CELLULITIS W/O CC/MCC 579 - OTHER SKIN, SUBCUT TISS & BREAST PROC W MCC 580 - OTHER SKIN, SUBCUT TISS & BREAST PROC W CC 581 - OTHER SKIN, SUBCUT TISS & BREAST PROC W/O CC/MCC 619 - O.R. PROCEDURES FOR OBESITY W MCC 620 - O.R. PROCEDURES 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

NATIONAL QUALITY FORUM 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 PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W CC 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 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 GRAFTS FOR INJURIES

0367 Post operative wound dehiscence (PDI 11)

440 - WOUND DEBRIDEMENTS FOR INJURIES

441 - HAND PROCEDURES FOR INJURIES

442 - OTHER O.R. PROCEDURES FOR INJURIES W CC

443 - OTHER O.R. PROCEDURES FOR INJURIES W/O CC

484 - CRANIOTOMY FOR MULTIPLE SIGNIFICANT TRAUMA

DRG - TITLE

485 - LIMB REATTACHMENT, HIP AND FEMUR 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 | Maryland | 20850

Steering Committee Recommendation for Endorsement: No did not pass Importance to Measure and Report Y-5; N-14

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-5; N-14

(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 specifically in children and only a small number of patients experience wound dehiscence.

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:

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.

0368 Post operative wound dehiscence (PSI 14)

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 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: <u>No did not pass Importance to Measure and Report Y-6; N-13</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-6; N-13

(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 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:

RELATED AND COMPETING MEASURES

Following a brief review of NQF guidance related to related and competing measures presented by Heidi Bossley, the Committee discussed the following measures potentially related or competing measures for opportunity for harmonization or selection of the best measure of those determined to be competing (comparison tables are provided at the end of this document). Harmonization will be addressed in an addendum report to the Surgery maintenance project.

Cataracts

- o *New Candidate Measure 1536*: Cataracts: Improvement in patient's visual function within 90 days following cataract surgery
- o *Endorsed Measure 0565*: Cataracts: 20/40 or better visual acuity within 90 days following cataract surgery

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.

• Failure to Rescue

- o Maintenance Measure 0352: Failure to rescue in-hospital mortality (risk adjusted)
- o *Maintenance Measure 0351*: Death among surgical in-patients with serious, treatable complications (PSI 4)
- o *Maintenance Measure 0353*: Failure to rescue 30-day mortality (risk adjusted)

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 inhospital 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, appear to 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.

• Pancreatic Resection

- o Maintenance Measure 0365: Pancreatic resection mortality rate (IQI 9)
- o Maintenance Measure 0366: Pancreatic resection volume (IQI 2)
- o Endorsed Measure 0738: Survival predictor for pancreatic resection surgery

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.

• Statin Medication

- o Maintenance Measure 0118: Anti-lipid treatment discharge (Recommended in Phase I)
- o New Candidate Measure 1519: Statin therapy at discharge after lower extremity bypass (LEB)

The Steering Committee stated that measures 0118 and 1519 were related in terms of therapy used. They involve different procedures and different patient populations and are reasonably aligned thus no further action was recommended.

• Beta Blocker

- o Endorsed Measure 0235: Pre-op beta blocker in patient with isolated CABG (1)
- o *Maintenance Measure 0127*: Pre-operative beta blockade
- o Endorsed Measure 0236: Pre-op beta blocker in patient with isolated CABG (2)
- o *Maintenance Measure 0284*: Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period

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.

Prophylactic Antibiotics: Discontinued

- o *Maintenance Measure 0529*: Prophylactic antibiotics discontinued within 24 hours after surgery end time
- o Endorsed Measure 0637: Discontinuation of prophylactic antibiotics (cardiac procedures)
- o Maintenance Measure 0128: Duration of antibiotic prophylaxis for cardiac surgery patients
- o Endorsed Measure 0271: Discontinuation of prophylactics antibiotics (non-cardiac procedures)

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 relay the requests of the Committee for their consideration as they update and test the measures.

• Prophylactic Antibiotics: Selection

- o Maintenance Measure 0126: Selection of antibiotic prophylaxis for cardiac surgery patients
- o *Endorsed Measure 0268*: Selection of prophylactic antibiotic: First or second generation cephalosporin
- o Maintenance Measure 0528: Prophylactic antibiotic selection for surgical patients

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 their consideration as they update and test the measure.

Prophylactic Antibiotics: Timing/Received

- o Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients
- o Endorsed Measure 0269: Timing of prophylactic antibiotics-administering physician
- o Endorsed Measure 0270: Timing of antibiotic prophylaxis-ordering physician
- o *Maintenance Measure 0527*: Prophylactic antibiotic received within 1 hour prior to surgical incision SCIP-Inf-1
- o *Endorsed Measure: 0472*: Prophylactic antibiotic received within one hour prior to surgical incision or at the time of delivery-cesarean section

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 most closely mirrors measure 0527 to the extent possible. 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 Mass General measure 0472), NOF staff will relay the request of the Committee for their consideration and feedback.

Related and Competing Measures for Further Discussion

- AAA Repair
 - o Maintenance Measure 0357: Abdominal aortic aneurysm (AAA) repair volume (IQI 4)
 - o Maintenance Measure 0359: Abdominal aortic artery (AAA) repair mortality rate (IQI 11)
 - o Endorsed Measure 0736: Survival predictor for abdominal aortic aneurysm (AAA)
 - o New Candidate Measure 1523: In-hospital mortality following elective open repair of small AAAs
 - o New Candidate Measure 1534: In-hospital mortality following elective EVAR of small AAAs

The Steering Committee requested the measure developer to create a composite measure of 0357 and 0359. The composite measure will then be evaluated against related and competing measures during a follow-up conference call.

Measures and Evaluations

The summary below displays follow-up items from 19 measures considered at the May 4-5 in-person meeting, including actions taken by the Steering Committee on conditional recommendations or preliminary review. (See the <u>summary</u> from the May 4-5 meeting for the original evaluation of the measures.)

Information related to the measures that were discussed on this call is highlighted.

LEGEND: Y= Yes; N = No; A = Abstain; C = Completely; P = Partially; M = Minimally; N = Not at all

Cardiac and Vascular General, Ophthalmology, Orthopedics and Pediatrics General, Prophylaxis and Wound Dehiscence

0127 Preoperative beta blockade

For More Information: 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

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: Criteria for Endorsement Met: Y-21; N-0; A-0 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 (measures 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. 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.

0127 Preoperative beta blockade

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: C-17; P-4; 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 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.

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

For More Information: 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.

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.gualitynet.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: Conditional Criteria for Endorsement met: Y- 19; N -2; A-0 Rationale: The measure is meaningful for public reporting and quality 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.
- 2a.9 Denominator Exclusions: Consider exclusions for patients on beta blockers for non-cardiac reasons.

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

Notes for Abstraction:

arrival? Yes/No

- 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".
- 2. 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. <u>2a.4 Denominator Statement:</u> Further define "prior to arrival" to specify "all surgery patients on <u>daily</u> 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. Importance to Measure and Report: Y-21; N-0

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

Rationale: Performance is above 90 percent; however, discontinuation of beta blockers in the post-op period has the potential to affect large numbers and for that reason remains a concern. It was noted that beta blockers had to be titrated to a certain heart rate for them to provide a beneficial result to the patient.

2. Scientific Acceptability of Measure Properties: C-10; P-10; M-1; N-0

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

Rationale: The evidence, construction and testing of the measure meets requirements. The Committee questioned the period of time that was considered as part of the perioperative period and why laparoscopic procedures were included in the exclusions and set conditions related to these concerns.

3. Usability: C-12; P-9; 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 is meaningful for public reporting and quality improvement.

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

4. Feasibility: C-12; P-9; 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 required data is readily available; the Committee questioned whether the measure would continue to rely on paper records. It is not included in the list for electronic health records (EHR) at present; however, the developer was encouraged to consider capturing titration to heart rate when it does move to EHR. They were also requested that the bradycardia exclusion be included.

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)
- 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

15/8

MALIG NEO PANCREAS NEC

1579

MALIG NEO PANCREAS NOS

Benign Disease: All other cases

Level of Analysis: Facility/ Agency

Type of Measure: Outcome

Data Source: Electronic administrative data/ claims

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

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. 2a.9 Denominator Exclusions: Please remove 'transferring to another short-term hospital (DISP=2)' from the exclusions.
- 4. <u>2a.9 Denominator Exclusions</u>: 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. 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.

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.

0366 Pancreatic resection volume (IQI 2)

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. **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

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

MALIG NEO PANCREAS NOS

Benign 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:

- 1. De.2 Ensure measure description accurately captures measure focus.
- 2a.3 Numerator Details: Partial resections and partial operations should be included in 0366,
- 3. <u>2a.8 Denominator Details</u>: Do not limit to pancreatic resection for cancer.
- 4. 2a.9 Denominator Exclusions: Please remove 'transferring to another short-term hospital (DISP=2)' from the exclusions.
- 5. 2a.9 Denominator Exclusions: 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 benign disease. 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 include partial resections and partial operations
- 3. The volume measure contains no such exclusion. However, in general AHRQ agrees to harmonize the mortality and volume indicator denominators to include benign disease in the mortality measure. Note that the mortality (0365) and volume indicator are designated as paired measures.
- 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

0366 Pancreatic resection volume (IQI 2)

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 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.

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, the impact in terms of mortality is important to track and report.

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 to be 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.

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

For More Information: 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: Conditional Criteria for Endorsement met: Y-19; 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. 2a.2 Numerator Time Window: Timeframe lacks precision. Please address.
- 2. 2a.7 Denominator Time Window: 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:

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:

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

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: C-14; P-5; M-1; N-0

(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.

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

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

Description: Count of adult hospital discharges in a one year time period with a procedure code of AAA repair.

Numerator Statement: Discharges, age 18 years and older, with an abdominal aortic aneurysm (AAA) repair procedure and a primary or secondary diagnosis of AAA.

Denominator Statement: Not applicable.

Exclusions: Not applicable.

Adjustment/Stratification: no risk adjustment necessary/ The stratification of the denominator for open vs. endovascular and ruptured vs. unruptured involve the following codes in the denominator specification:

AAA Repair (

ICD-9-CM Procedure Codes:

OPEN:

'3834' = '1' /* AORTA RESECTION & ANAST *
'3844' = '1' /* RESECT ABDM AORTA W REPL */

'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

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

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.

2. 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. 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.

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

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

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:

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

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

Description: Percent of adult hospital 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)

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

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.

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

Gender, age (5-year age groups), race/ ethnicity, primary payer, custom

The stratification of the denominator for open vs. endovascular and ruptured vs. unruptured involves the following codes in the denominator specification:

AAA Repair

ICD-9-CM Procedure Codes:

OPEN

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

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

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

ENDOVASCULAR

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

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: 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 initially did not pass the importance criterion; however, the Steering Committee engaged in extensive discussion of the volume and mortality measures as noted in review of 0357 above. The Committee asked for additional information and with that information, 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. <u>2a.11 Stratification Details/Variables</u>: a) Stratify the measure by endovascular and open repairs as well as emergency vs. elective repair; b) specify the risk stratification model used; 3) identify settings where the model has been validated in addition to the training data set in which it was developed or provide other supporting data as to its validity.
- 2. <u>2b.3 Testing Results</u>: Please provide information about signal to noise ratio.

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. a) As noted above, AHRQ agrees to stratify the measure by endovascular and open repairs; in addition, AHRQ agrees to stratify by ruptured vs. un-ruptured aneurysm (which is what we assume you mean by emergency vs. elective repair); but AHRQ again notes that additional methodological development will be required to ensure the measures have adequate

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

- reliability; b) the risk stratification model is specified below; c) the model has been validated on the State Inpatient Databases (SID), which consists of hospital discharge data from 40 states (constituting about 90% of hospital discharges in the U.S) for the years 2001-2008
- 2. The signal to noise ratio is the ratio of the between hospital variance (signal) to the within hospital variance (noise). The formula is signal / (signal + noise). The ratio itself is only a diagnostic for the degree of variance in the risk-adjusted rate systematically associated with the provider. Therefore, what matters is the magnitude of the variance in the "smoothed" rate (that is, the variance in the risk-adjusted rate after the application of the univariate shrinkage estimator based on the signal ratio). What the data demonstrate is systematic variation in the provider level rate of 2.6 to 7.6 per 100 from the 5th to 95th percentile after a signal ratio of 0.307 is applied as the shrinkage estimator (that is, after accounting for variation due to random factors).

Table 3. Risk Adjustment Coefficients for IQI #11— AAA Repair Mortality

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
Intercept		1	-6.6044	0.1713	1486.04	0.0000
Sex	Female	1	0.4539	0.0747	36.95	0.0000
Age	65 to 74	1	0.4879	0.1072	20.72	0.0000
Age	75 to 79	1	0.8737	0.1201	52.97	0.0000
Age	80 to 84	1	1.1092	0.1200	85.50	0.0000
Age	85+	1	1.4440	0.1359	112.97	0.0000
APR-DRG	'1691' to '1692'	1	1.6789	0.1623	107.05	0.0000
APR-DRG	'1693' to '1694'	1	3.9127	0.1523	659.72	0.0000
APR-DRG	'1733' to '1734'	1	3.1568	0.1676	354.55	0.0000
MDC	5	1	2.6400	0.1483	316.85	0.0000
MDC	Other	1	2.9536	0.2252	172.05	0.0000
RUPTURED		1	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:

- 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 (24.74percent) 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.

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

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

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

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:

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**: Can be measured at all levels, 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.
- 3. <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 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 results, since subsequent patient contact after discharge is not necessary. We believe that these advantages make in-hospital mortality a more

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

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. 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

(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; 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 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: C-4; P-11; M-4; N-2

(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: 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 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 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.

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

1534 In-hospital mortality following elective EVAR of small AAAs

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:** Can be measured at all levels, 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 questions 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. 2a Measure Specifications: 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. 3a.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 results, since subsequent patient contact after discharge is not necessary. We believe that these advantages make 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 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.

1534 In-hospital mortality following elective EVAR of small AAAs

6. 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: C-3; P-15; M-2; N-1

(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: C-5; P-10; M-5; 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: 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.

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

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

Description: Percentage of patients who died with a complications in the hospital.

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

(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.

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

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: Conditional Y-18; N-3; A-0

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. <u>2h. Disparities in Care</u>: Provide information about disparities or plans to be able to provide data.
- 3. 3a.2 Use in Public Reporting Initiative: 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:

- 2a.6 Target Population Age Range: We use 90 years as a cut-point because of our concern regarding the increased use of do-not-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 surgery where mortality rates are higher.
- 2. 2h. Disparities in Care:
 - 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.

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

(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-9; P-11; M-1; N-0

(2a. Precise specifications; 2b. Reliability testing; 2c. Validity testing; 2d. Exclusions justified; 2e. Risk adjustment/stratification; 2f.

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

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: C-7; P-12; M-2; N-0

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

Rationale: The measure is somewhat complicated and has not yet been used in public reporting.

4. Feasibility: C-8; P-12; M-1; 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 will be relatively easy to collect since it uses administrative data.

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

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

Description: Percentage of patients who died with a complication within 30 days from admission.

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.

*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: Conditional Y-13; N-8; 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:

- 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.

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

- 4. <u>Please advise how 30 day data is collected and how post</u>-hospital care with potential for affecting outcomes is handled.

 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 do-not-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 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.
- 3a. <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 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. 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

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

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.

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

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

Description: Percentage of cases having developed specified complications of care with an in-hospital death.

Numerator Statement: 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).

Exclusions: Exclude cases:

- · 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 2a.10.

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), 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/User has an option to stratify by Gender, age (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: Conditional Y-18; N-1; A-0

Rationale: This measure highlights specific complications, which presents opportunities for early interventions and action

If applicable, 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.

Developer 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.

Steering 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: 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

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

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

(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: C-14; P-5; 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 uses claims data and was considered feasible.

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

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

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

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

Denominator Statement: All patients aged 18 years and older in sample who had cataract surgery

Exclusions:

Adjustment/Stratification: no risk adjustment necessary/ A risk adjustment methodology is not necessary if the stratification schema is utilized, as described above./ 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 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.

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

Amblyopia

364.05

1536 Cataracts: Improvement in patient's visual function withi	n 90 days following cataract surgery
Amblyopia 368.02	g g
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 371.01	
Cloudy cornea 371.02	
Cloudy cornea 371.03	
Cloudy cornea 371.04	
Corneal edema 371.20	
Corneal edema 371.21	
Corneal edema 371.22	
Corneal edema 371.23	
Corneal edema 371.43	
Corneal edema 371.44	
Corneal opacity and other disorders of cornea 371.00	
Corneal opacity and other disorders of cornea 371.03	
Corneal opacity and other disorders of cornea 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	
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	2/2.10
Disseminated chorioretinitis and disseminated retinochoroiditis	363.10 363.11
Disseminated chorioretinitis and disseminated retinochoroiditis	363.11
Disseminated chorioretinitis and disseminated retinochoroiditis	363.12 363.13
Disseminated chorioretinitis and disseminated retinochoroiditis	363.13

1536 Cataracts: Improvement in patient's visual function within	n 90 days following cataract surgery
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 363.07	
Focal chorioretinitis and focal retinochoroiditis 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	votomia aundramaa 2/F /1
Glaucoma associated with congenital anomalies, dystrophies, and s	
Glaucoma associated with congenital anomalies, dystrophies, and s Glaucoma associated with congenital anomalies, dystrophies, and s	
Glaucoma associated with congenital anomalies, dystrophies, and s	
Glaucoma associated with congenital anomalies, dystrophies, and s	
Glaucoma associated with congenital anomalies, dystrophies, and s	
Glaucoma associated with congenital anomalies, dystrophies, and s	
Glaucoma associated with congenital anomalies, dystrophies, and s	
Glaucoma associated with congenital anomalies, dystrophies, and s	
Glaucoma associated with congenital anomalies, dystrophies, and s	
Glaucoma associated with congenital anomalies, dystrophies, and s	
Glaucoma associated with congenital anomalies, dystrophies, and s	
Glaucoma associated with congenital anomalies, dystrophies, and s	
Glaucoma associated with congenital anomalies, dystrophies, and s	
Glaucoma associated with congenital anomalies, dystrophies, and s	
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	

1536 Cataracts: Improvement in na	tient's visual function within 90 days	
Hereditary corneal dystrophies	371.55	Tollowing Catalact Surgery
Hereditary corneal dystrophies	371.56	
Hereditary corneal dystrophies	371.57	
Hereditary corneal dystrophies	371.58	
Hereditary choroidal dystrophies	363.50	
Hereditary choroidal dystrophies	363.51	
Hereditary choroidal dystrophies	363.52	
Hereditary choroidal dystrophies	363.53	
Hereditary choroidal dystrophies	363.54	
Hereditary choroidal dystrophies	363.55	
Hereditary choroidal dystrophies	363.56	
Hereditary choroidal dystrophies	363.57	
Hereditary retinal dystrophies 362.70		
Hereditary retinal dystrophies 362.71		
Hereditary retinal dystrophies 362.72		
Hereditary retinal dystrophies 362.73		
Hereditary retinal dystrophies 362.74		
Hereditary retinal dystrophies 362.75		
Hereditary retinal dystrophies 362.76		
High myopia 360.20		
High myopia 360.21		
Injury to optic nerve and pathways	950.0	
Injury to optic nerve and pathways	950.1	
Injury to optic nerve and pathways	950.2	
Injury to optic nerve and pathways	950.3	
Injury to optic nerve and pathways	950.9	
Keratitis 370.03	6 11 11	0/0/0
Moderate or severe impairment, better		369.10
Moderate or severe impairment, better		369.11
Moderate or severe impairment, better		369.12
Moderate or severe impairment, better Moderate or severe impairment, better		369.13 369.14
Moderate or severe impairment, better		369.14 369.15
Moderate or severe impairment, better	<i>y</i> .	369.16
Moderate or severe impairment, better		369.17
Moderate of severe impairment, better		369.18
Nystagmus and iother irregular eye mo		307.10
Open wound of eyeball 871.0	77.01	
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		
l ·		
l ·		
Optic neuritis 377.34		

1536 Cataracts: Improvement in patient's visual function	on within 90 days following cataract surgery
Optic neuritis 377.39	
Other background retinopathy and retinal vascular changes	3362.12
Other background retinopathy and retinal vascular changes	
Other background retinopathy and retinal vascular changes	
Other corneal deformities 371.70	7002.10
Other corneal deformities 371.71	
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	
Other and unspecified forms of chorioretinitis and retinocho	proiditis 363.20
Other and unspecified forms of chorioretinitis and retinocho	
Other and unspecified forms of chorioretinitis and retinocho	
Prior penetrating keratoplasty 371.60	indians 303.22
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 377.04 Scleritis and episcleritis 379.05	
Scleritis and episcientis 377.03 Scleritis and episcientis 379.06	
Jointa and opionomia J17.00	

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

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. 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: Conditional Y-9; N-10; A-0

Rationale: The Committee verified the importance of patient centered measures such as this noting that the additional information that is provided from the patient perspective about visual function, with the requested updates, makes this a 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 of points of improvement?
- 2. 2a.9 Denominator Exclusions: Excluding patients who do not want to complete the survey inappropriately inflates the rate.
- 3. <u>2a.25 Data Source/Data Collection Instrument:</u> a) Identify 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, etc.); b) Include information about why the objective assessment of visual function/acuity should be supplement with such a measure; c) Define survey methodology: Is it a mail survey, phone survey, in office paper survey with questions asked by office staff? 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:

- 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 scores on the VF-8R 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 minimally clinically important difference was 15.57; another study found that the minimally clinically important
 - 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.

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

- 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. 3a.2 Use in Public Reporting Initiative: 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 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: C-1; P-15; M-1; N-2

(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.

0528 Prophylactic antibiotic selection for surgical patients

For More Information: 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. 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: Conditional Y-18; N-0; A-0

Rationale: This measure was described as appropriate and important to encourage continued focus on post surgical infection.

Steering Committee Follow-up:

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-18; N-0

(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

0528 Prophylactic antibiotic selection for surgical patients

(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 guidelines 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. Susceptibility to inaccuracies/ unintended consequences identified 4e. Data collection strategy can be implemented)

Rationale: The Committee stated that the measure was feasible based on data source.

0126 Selection 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 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
- 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 (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: Conditional Y-19; N-0; A-0

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

0126 Selection of antibiotic prophylaxis for cardiac surgery patients

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.

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
- -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 during this hospitalization
- -Patients with reasons 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 data

Measure Steward: Society of Thoracic Surgeons | 633 North Saint Clair Street, Suite 2320 | Chicago | Illinois | 60611

Steering Committee Recommendation for Endorsement: Conditional Y-17, N-2; A-0 Pending final recommendation.

Rationale: The measure was considered important due to the potential for prolonged antibiotic use and the percent of antimicrobial resistance.

Steering Committee Follow-up:

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 relay the requests of the Committee for their action as they update and test the measures.

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

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

Rationale: The measure noted a performance gap in appropriate antibiotic administration, which can increase the incidence of deep sternal wound infection or antimicrobial resistance.

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

0128 Duration of antibiotic prophylaxis for cardiac surgery patients

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.

0125 Timing 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 who received prophylactic antibiotics within one hour of surgical incision or start of procedure if no incision was required (two hours if receiving vancomycin or fluoroguinolone) Numerator Statement: Number of patients undergoing cardiac surgery patients who received prophylactic antibiotics within one hour of

surgical incision or start of procedure if no incision was required (two hours if vancomycin or fluoroguinolone)

Denominator Statement: Number of patients undergoing cardiac surgery

Exclusions: Cases are removed from the denominator if the patient had a documented contraindication or rationale for not administering antibiotic in medical record.

Other 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 were receiving antibiotics more than 24 hours prior to surgery
- -Patients who were receiving antibiotics within 24 hours prior to arrival

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 data

Measure Steward: Society of Thoracic Surgeons | 633 North Saint Clair Street, Suite 2320 | Chicago | Illinois | 60611

Steering Committee Recommendation for Endorsement: Conditional Y-17; N-2; A-0

Rationale: The evidence supporting the measure was considered strong.

If applicable, Conditions/Questions for Developer:

- 1c.5 Rating of Strength/Quality of Evidence: Address the rating of evidence.
- 2a.1 Numerator Statement: Provide the exact timing of the prophylactic antibiotic.

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

Developer Response:

- This is addressed in the measure submission form.
- Exact timing was provided in the original measure submission form.

Steering Committee Follow-up:

- The Steering Committee requested additional information on the gaps and the link to outcomes, noting that individual measures may not have the effect on SSI rates that bundles can. Members also stated that antibiotic stewardship should be addressed. With developer response, the Committee agreed that the developer provided an adequate response to its auestions.
- 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 antibioticsadministering 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 most closely mirrors measure 0527 to the extent possible. 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 Mass General measure 0472), NQF staff will relay the request of the Committee for their consideration and feedback.

0125 Timing of antibiotic prophylaxis for cardiac surgery patients

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

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

Rationale: The Committee noted controversy regarding the one hour timeframe for antibiotic prophylaxis. The performance gap for the measure was considered small but the outcome of mediastinitis and potentially death suggests measuring continued improvement effort is warranted.

2. Scientific Acceptability of Measure Properties: C-11; P-8; 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 Committee noted that laparoscopic procedures were excluded but in the future would be included in the measure.

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 Committee indicated that there were similar measures that may need to be harmonized including:

#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

#0527: Prophylactic antibiotic received within 1 hour prior to surgical incision SCIP-Inf-1.

4. Feasibility: C-15; 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: While data for the measure is drawn from registry, the measure was considered feasible.

0527 Prophylactic antibiotic received within 1 hour prior to surgical incision

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

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.

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).

Denominator Statement: All selected surgical patients with no evidence of prior infection. Table 5.10 is the complete table of selected major surgeries

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 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 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-1 are 5.01 to 5.08.

Level of Analysis: Can be measured at all levels, Facility/ Agency, Population: National, 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 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

Measure Steward: Centers for Medicare & Medicaid Services | 7500 Security Boulevard , Mail Stop S3-01-02 | Baltimore | Maryland | 21244-1850

0527 Prophylactic antibiotic received within 1 hour prior to surgical incision

Steering Committee Recommendation for Endorsement: Conditional Y-17; N-1; A-0

Rationale: The measure focus and specifications are appropriate. Performance presents disparity data that demonstrates performance 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.

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: C-14; 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: 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: 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 Committee stated that the measure was feasible based on the data required and its record of use.

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 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:

Exclusions. Excluded Fopulation

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)

0529 Prophylactic antibiotics discontinued within 24 hours after surgery end time

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 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 arri

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 relay 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)

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: C-18; P-1; 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 is currently in use and is part of the Surgical Care Improvement Project (SCIP) measure set.

4. Feasibility: C-16; P-3; 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 relies on administrative claims data.

Table of Contents: Related and Competing Measures

AAA Repair	
Maintenance Measure 0357: Abdominal aortic aneurysm (AAA) repair volume (IQI 4)	65
Maintenance Measure 0359: Abdominal aortic artery (AAA) repair mortality rate (IQI 11)	65
Endorsed Measure 0736: Survival predictor for abdominal aortic aneurysm (AAA)	65
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	65
Beta Blocker	
Endorsed Measure 0235: Pre-op beta blocker in patient with isolated CABG (1)	84
Maintenance Measure 0127: Pre-operative beta blockade	
Endorsed Measure 0236: Pre-op beta-blocker in patient with isolated CABG (2)	84
Maintenance Measure 0284: Surgery patients on beta blocker therapy prior to admission who received a beta blo	cker
during the perioperative period.	
Cataracts	
New Candidate Measure 1536: Cataracts: Improvement in patient's visual function within 90 days following cata	aract
surgery	
Endorsed Measure 0565: Cataracts: 20/40 or better visual acuity within 90 days following cataract surgery	
Zindorsou rizonsuzo de del Cumundos Zorito di Conter insula accist, infanta y d'uniferent surgez y inimi	
Failure to Rescue	
Maintenance Measure 0351: Death among surgical inpatients with serious, treatable complications (PSI 4)	
Maintenance Measure 0352: Failure to rescue in-hospital mortality (risk adjusted)	
Maintenance Measure 0353: Failure to rescue 30-day mortality (risk adjusted)	95
Pancreatic Resection	
Maintenance Measure 0365: Pancreatic resection mortality rate (IQI 9)	100
Maintenance Measure 0366: Pancreatic resection volume (IQI 2)	100
Endorsed Measure 0738: Survival predictor for pancreatic resection surgery	
Prophylactic Antibiotics: Discontinued	
Endorsed Measure 0637: Discontinuation of prophylactic antibiotics (cardiac procedures)	108
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)	
Endorsed Measure 0271. Discontinuation of prophylactic antiologies (non-cardiac procedures)	100
Prophylactic Antibiotics: Selection	
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	140
Prophylactic Antibiotics: Timing/Received	
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	166
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	
delivery – cesarean section.	166

Maintenance Measure 0118: Anti-lipid treatment discharge	205
New Candidate Measure 1519: Statin therapy at discharge after lower extremity bypass (LEB)	205

Table of Similar, or Competing Measures and those with potential for Harmonization

AAA Repair

AHRQ and Leapfrog measures have similar measure focus though view differently which combines volume and mortality (i.e., mortality vs. combined volume and mortality to predict survival) and use administrative/claims data; level of analysis for both is facility.

SVS measures have a focus similar to that of the AHRQ mortality measure and use registry data. Level of analysis can be at group, individual or facility level.

	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 maintenance review Notes: 0357 and 0359 reported as a pair. Importance Y-10; N-11 related to lack of stratification; vote on remaining criteria pending developer response to requests related to methods changes for stratification by open and EVAR and RA model clarification. Developer asked to meet with SVS to harmonize or blend AAA measures	Currently undergoing maintenance review Notes: 0357 and 0359 reported as a pair Importance Y-10; N-11 related to lack of stratification; vote on remaining criteria pending developer response to requests related to methods changes for stratification by open and EVAR and RA model clarification. Developer asked to meet with SVS to harmonize or blend AAA measures	Endorsed 9/2010	Currently undergoing review Notes: Criteria met N-11, Y-9; SC requests to permit further consideration addressed, remaining concern documentation and tracking of aneurysm size outside registry	Currently undergoing review Notes: Criteria met N-12, Y-9; SC requests to permit further consideration addressed, remaining concern documentation and tracking of aneurysm size outside registry
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 discharges with a procedure code of provider-level AAA repair.	Percent of discharges with procedure code of AAA repair 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.

	TWITTONIE CONDITT TOKOM					
	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	
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.	Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.	Survival rate for patients age 18 and over without AAA rupture who undergo an AAA repair.	Mortality following elective open repair of asymptomatic AAAs in men with < 6 cm dia and women with < 5.5 cm dia AAAs.	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: Time window can be determined by user, but is generally a calendar year.	Time window: Time window can be determined by user, but is generally a calendar year.	Time Window: During the hospital admission	Time window: Lifetime for provider reporting, annual for hospital reporting	Time window: Lifetime for provider reporting, annual for hospital reporting	
Numerator Details	Discharges, age 18 years and older, with an abdominal aortic aneurysm repair procedure and a primary or secondary diagnosis of AAA in any field. 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	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 (< 6cm dia in men, <5.5 cm dia in women, judged by preoperative imaging (CT, MR or ultrasound)).	A 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) registries records such information. Patients who died in hospital following endovascular infrarenal AAA repair (EVAR) if their asymptomatic aneurysm was repaired electively and was asymptomatic and small (< 6cm dia in men, <5.5 cm dia in women, judged by preoperative imaging (CT, MR or ultrasound)).	

	1		2011EIII I ORGIN		
	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 4414 ABDOM AORTIC ANEURYSM Exclude cases: • MDC 14 (pregnancy, childbirth, and puerperium)				
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. 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: Lifetime for provider reporting, annual for hospital reporting	All elective endovascular repairs of asymptomatic AAAs in men with < 6 cm dia and women with < 5.5 cm dia AAAs. Time window: Lifetime for provider reporting, annual for hospital reporting
Denominator Categories	Female, Male; 18 and older	Female, Male; 18 and older		Female, Male; 18 years or older	Female, Male; 18 years or older
Denominator Details	N/A	Discharges, age 18 years and older, with ICD-9-CM AAA repair code procedure and a diagnosis of AAA in any field. ICD-9-CM AAA repair procedure codes: 3834 AORTA RESECTION & ANAST 3844 RESECT ABDM AORTA W REPL 3864 EXCISION OF AORTA 3971 ENDO IMPLANT OF GRAFT IN AORTA	For the volume predicted mortality, hospitals count the number of all AAA repair cases using the following procedure codes. ICD-9-CM Procedure Codes for AAA repair 3834 Aorta Resection & Anast 3844 Resection Abdominal Aorta with replacement 3864 Excision of aorta 3925 Aorta-iliac-femoral bypass 3971 Endo Implant of Graft in Aorta For the observed mortality	ANY registry that includes hospitalization details, AAA diameter and discharge status 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 underwent elective open AAA repair are included if their aneurysm was asymptomatic and	A registry that includes hospitalization details, AAA diameter and discharge status 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) registries records such information. Patients who underwent endovascular AAA repair are included if their aneurysm was asymptomatic and small (< 6cm dia in men, <5.5 cm dia in women, judged by preoperative imaging).

	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
		ICD-9-CM AAA diagnosis codes: 4413 RUPT ABD AORTIC ANEURYSM 4414 ABDOM AORTIC ANEURYSM 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)	hospitals count the number of AAA repair cases that also have a diagnosis of unruptured AAA using the following codes. ICD-9CM Codes for AAA without rupture 441.4 Dissection of aorta aneurysm unspecified site 441.7 Thoracoabdominal aneurysm without rupture 441.9 Aortic aneurysm of unspecified site without rupture	small (< 6cm dia in men, <5.5 cm dia in women, judged by preoperative imaging (CT, MR or ultrasound)).	
Exclusions	Numerator exclusions • MDC 14 (pregnancy, childbirth, and puerperium)	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)	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	Exclude cases:	For the count of all AAA	Patients undergoing non-	Patients undergoing non-

	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
	not have a denominator.	 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) 	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 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.	elective open repair of symptomatic AAAs or those with AAAs larger than the diameters noted above.	elective open repair of symptomatic AAAs or those with AAAs larger than the diameters noted above.
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	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	No risk adjustment necessary	No risk adjustment necessary

	Maintenance Measure	Maintenance Measure	Endorsed Measure 0736:	New Candidate Standard	New Candidate Standard			
	0357 : Abdominal aortic	0359 : Abdominal aortic	Survival predictor for	1523 : In-hospital mortality	1534 : In-hospital mortality			
	aneurysm (AAA) repair	artery (AAA) repair mortality	abdominal aortic aneurysm	following elective open	following elective EVAR of			
	volume (IQI 4)	rate (IQI 11)	(AAA)	repair of small AAAs	small AAAs			
		APR-DRG risk-of-mortality	mortality rate in the					
		subclass. The reference	population). We modified					
		population used in the model	this traditional approach by					
		is the universe of discharges	shrinking the observed					
		for states that participate in	mortality rate back toward					
		the HCUP State Inpatient	the mortality rate expected					
		Databases (SID) for the year	given the volume at that					
		2007 (updated annually), a	hospital—we refer to this as					
		database consisting of 43	the "volume-predicted					
		states and approximately 30	mortality". With this					
		million adult discharges. The	approach, the observed					
		expected rate is computed as	mortality rate is weighted					
		the sum of the predicted	according to how reliably it					
		value for each case divided	is estimated, with the					
		by the number of cases for	remaining weight placed on					
		the unit of analysis of interest	the information regarding					
		(i.e., hospital, state, and	hospital volume [volume-					
		region). The risk adjusted	predicted mortality].					
		rate is computed using						
		indirect standardization as the	Risk adjustment for patient					
		observed rate divided by the	characteristics is not used					
		expected rate, multiplied by	because in sensitivity					
		the reference population rate.	analysis, composite					
		Risk adjustment factors: sex	measures based on an					
		age 18-24; age 25-29; age 30-	unadjusted mortality input					
		34; age 35-39; age 40-44; age	and a risk-adjusted mortality					
		45-49; age 50-54; age 55-59;	input had a correlation of					
		age 60-64; age 65-69; age 70-	(.95) and thus were equally					
		74; age 75-79; age 80-84; age	good at predicting future					
		85+	performance.					
		each age category*female	r					
		ADRG 1731 (other vascular	The formula for calculating					
		procedures-minor)	the survival predictor has					
		ADRG 1732 (other vascular	two components, one is a					
		procedures-moderate)	volume predicted mortality					
		ADRG 1733 (other vascular	rate, and the second is an					
		procedures-major)	observed mortality rate.					
		ADRG 1734 (other vascular	observed mortality rate.					
		procedures-extreme)	The volume predicted					
		procedures-extreme)	The volume predicted					

TWITTOTAL CONDITT TOKEN								
0357 : Abdo		(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				
	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 ADRG 9999 (other)	hospitals experience performing AAA surgeries (thus, it includes all AAA surgeries) and uses mortality for all hospitals at that specific volume to create the volume predicted mortality. The input data						

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
		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 highrisk 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 back toward		

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
		the 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 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 AAA surgeries (thus, it includes all AAA surgeries) and uses		

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
		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 AAAs performed in the hospital.		
		The second domain is the 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 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		

	Maintenance Measure	Maintenance Measure	Endorsed Measure 0736:	New Candidate Standard	New Candidate Standard
	0357: Abdominal aortic	0359 : Abdominal aortic	Survival predictor for	1523: In-hospital mortality	1534: In-hospital mortality
	aneurysm (AAA) repair volume (IQI 4)	artery (AAA) repair mortality rate (IQI 11)	abdominal aortic aneurysm (AAA)	following elective open repair of small AAAs	following elective EVAR of small AAAs
		, , ,	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	The stratification of the	Gender, age (5-year age		N/A	N/A
	denominator for open vs.	groups), race / ethnicity,			
	endovascular and ruptured	primary payer, custom			
	vs. unruptured involve the				
	following codes in the	The stratification of the			
	denominator specification: Abdominal Aortic	denominator for open vs. endovascular and ruptured			
	Aneurysm Repair	vs. unruptured involves the			
	(PRAAAR)	following codes in the			
	Volume Indicator	denominator specification:			
	IQI #4	Abdominal Aortic Aneurysm			
	Mortality (post-op)	Repair (PRAAAR)			
	Indicator	Volume Indicator / IQI #4			
	IQI #11	Mortality (post-op) Indicator			
	AAA Repair	/ IQI #11			
	ICD-9-CM Procedure	AAA Repair			
	Codes:	ICD-9-CM Procedure Codes:			
	PROC FORMAT;	PROC FORMAT			
	OPEN	OPEN			
	VALUE \$PRAAARP	VALUE \$PRAAARP			
	3834 = 1 /AORTA	3834 = 1 / AORTA			
	RESECTION & ANAST	RESECTION & ANAST			
	3844 = 1 / RESECT ABDM	3844 = 1 / RESECT ABDM			

Maintenance Measure	Maintenance Measure	Endorsed Measure 0736:	New Candidate Standard	New Candidate Standard
0357 : Abdominal aortic	0359 : Abdominal aortic	Survival predictor for	1523 : In-hospital mortality	1534: In-hospital mortality
aneurysm (AAA) repair	artery (AAA) repair mortality	abdominal aortic aneurysm	following elective open	following elective EVAR of
volume (IQI 4)	rate (IQI 11)	(AAA)	repair of small AAAs	small AAAs
AORTA W REPL	AORTA W REPL			
3864 = 1 /EXCISION OF	3864 = 1 /EXCISION OF			
AORTA/	AORTA/			
OTHER = 0	OTHER = 0			
ENDOVASCULAR	ENDOVASCULAR			
VALUE \$PRAAA2P	VALUE \$PRAAA2P			
3971= 1 /ENDO IMPL	3971 = 1/ENDO IMPL			
GRFT ABD AORTA/	GRFT ABD AORTA/			
OTHER = 0	OTHER = 0			
Include Only: AAA	Include Only: AAA			
ICD-9-CM Diagnosis	ICD-9-CM Diagnosis Codes:			
Codes:	RUPTURED			
RUPTURED	VALUE \$PRAAARD			
VALUE \$PRAAARD	4413 = 1 / RUPT ABD			
4413 = 1 / RUPT ABD	AORTIC ANEURYSM/			
AORTIC ANEURYSM /	OTHER = 0			
OTHER = 0	UNRUPTURED			
UNRUPTURED	VALUE \$PRAAA2D			
VALUE \$PRAAA2D	4414 = 1 /ABDOM AORTIC			
4414 = 1 / ABDOM	ANEURYSM/			
AORTIC ANEURYSM /	OTHER = 0			
OTHER = 0				
	The following analytic results			
The following analytic	were achieved with the			
results were achieved with	specification modification:			
the specification	T 11 1 D C			
modification:	Table 1. Reference			
Table 1 Defenses	Population Rate and Volume			
Table 1. Reference	Open, Ruptured Open, Un-			
Population Rate and	ruptured Endovascular,			
Volume	Ruptured Endovascular, Un-			
Open, Ruptured Open,	ruptured Original(Composite)			
Un-ruptured Endovascular, Ruptured Endovascular,	Population Rate 2004 39.04% 4.43% 29.11%			
Un-ruptured Original				
1 0	1.05% 6.09%			
(Composite) Population Rate	2005 41.10% 4.45% 28.06% 1.03% 5.76%			
2004 39.04% 4.43%	2006 41.11% 4.53% 29.18%			
29.11% 1.05% 6.09%	0.93% 5.22%			
47.11% 1.U3% 0.U9%	U.73% J.44%			

TATIONAL QUALITI TORUM					
Maintenance Measure	Maintenance Measure	Endorsed Measure 0736:	New Candidate Standard	New Candidate Standard	
0357: Abdominal aortic	0359: Abdominal aortic	Survival predictor for	1523: In-hospital mortality	1534: In-hospital mortality	
aneurysm (AAA) repair	artery (AAA) repair mortality	abdominal aortic aneurysm	following elective open	following elective EVAR of small AAAs	
volume (IQI 4)	rate (IQI 11)	(AAA)	repair of small AAAs	Siliali AAAS	
2005 41.10% 4.45%	2007 39.77% 4.48% 24.84%				
28.06% 1.03% 5.76%	1.16% 4.88%				
2006 41.11% 4.53%	2008 38.27% 4.82% 27.17%				
29.18% 0.93% 5.22%	1.02% 4.61%				
2007 39.77% 4.48%	%Change -2.0% 8.5% -6.9%				
24.84% 1.16% 4.88%	-2.9% -27.9%				
2008 38.27% 4.82%	Volume				
27.17% 1.02% 4.61%	2004 3,241 15,723 456				
%Change -2.0% 8.5% -	17,438 36,768				
6.9% -2.9% -27.9%	2005 2,876 12,941 568				
Volume	19,981 36,292				
2004 3,241 15,723 456	2006 2,652 11,152 647				
17,438 36,768	22,778 37,156				
2005 2,876 12,941 568	2007 2,445 9,693 799 25,101				
19,981 36,292	37,970				
2006 2,652 11,152 647	2008 2,352 8,851 1,068				
22,778 37,156	28,103 40,293				
2007 2,445 9,693 799	%Change -32.1% -57.5%				
25,101 37,970	85.1% 47.7% 9.2%				
2008 2,352 8,851 1,068	Source: State Inpatient				
28,103 40,293	Databases (SID), Healthcare				
%Change -32.1% -57.5%	Cost and Utilization Project				
85.1% 47.7% 9.2%	(HCUP)				
Source: State Inpatient					
Databases (SID),	Table 2. Hospital				
Healthcare Cost and	Discrimination, 2008				
Utilization Project (HCUP)	Open, Ruptured Open, Un-				
	ruptured Endovascular,				
Table 2. Hospital	Ruptured Endovascular,				
Discrimination, 2008	Un-ruptured				
Open, Ruptured Open,	Original(Composite)				
Un-ruptured Endovascular,	Hospitals 1,015 1,343 507				
Ruptured Endovascular,	1,439 1,711				
Un-ruptured Original	Best Performing 24.74%				
(Composite)	10.20% 12.91% 0.00%				
Hospitals 1,015 1,343 507	4.64%				
1,439 1,711	Worst Performing 26.53%				
Best Performing 24.74%	24.26% 39.11% 0.75%				
10.20% 12.91% 0.00%	5.52%				

	THITOTHE CONDITT ORCH				
	aintenance Measure	Maintenance Measure	Endorsed Measure 0736:	New Candidate Standard	New Candidate Standard
	57 : Abdominal aortic	0359 : Abdominal aortic	Survival predictor for	1523 : In-hospital mortality	1534 : In-hospital mortality
	eurysm (AAA) repair	artery (AAA) repair mortality	abdominal aortic aneurysm	following elective open	following elective EVAR of
vol	lume (IQI 4)	rate (IQI 11)	(AAA)	repair of small AAAs	small AAAs
4.6	54%				
	orst Performing 26.53%	5th 32.15% 2.25% 20.14%			
	.26% 39.11% 0.75%	0.16% 3.02%			
	52%	10th 33.42% 2.67% 21.52%			
	,-	0.24% 3.32%			
5th	h 32.15% 2.25% 20.14%	25th 35.60% 3.49% 23.98%			
	16% 3.02%	0.46% 3.86%			
	th 33.42% 2.67% 21.52%	Median 38.14% 4.59%			
	24% 3.32%	26.91% 0.84% 4.53%			
	th 35.60% 3.49% 23.98%	75th 40.79% 5.90% 30.08%			
	46% 3.86%	1.39% 5.27%			
	edian 38.14% 4.59%	90th 43.28% 7.27% 33.14%			
	5.91% 0.84% 4.53%	2.04% 6.00%			
	th 40.79% 5.90% 30.08%	95th 44.82% 8.18% 35.06%			
	39% 5.27%	2.52% 6.47%			
	th 43.28% 7.27% 33.14%	Source: State Inpatient			
	04% 6.00%	Databases (SID), Healthcare			
	th 44.82% 8.18% 35.06%	Cost and Utilization Project			
	52% 6.47%	(HCUP). Best performing is			
	ource: State Inpatient	below the median at 95%			
	atabases (SID),	probability; worst performing			
	ealthcare Cost and	is above the median at 95%			
	ilization Project (HCUP).	probability.			
	est performing is below	r · · · · · · · · · · · · · · · · · · ·			
	e median at 95%				
	obability; worst	Table 2A. Model Covariates,			
	rforming is above the	2008			
	edian at 95% probability.	Open, Ruptured Open, Un-			
	ı J	ruptured Endovascular,			
		Rupture Endovascular,			
Tal	ible 2A. Model	Un-ruptured			
	ovariates, 2008	Original(Composite)			
	pen, Ruptured Open, Un-	Frequency			
	ptured Endovascular,	N 2,284 8,729 1,038 27,989			
	iptured Endovascular,	39,963			
	n-ruptured Original	Female 23.5% 27.3% 21.5%			
	omposite)	17.8% 20.3%			
	equency	18 - 24 0.0% 0.0% 0.0%			
	2,284 8,729 1,038 27,989	0.0% 0.0%			

Maintenance Measure		Endouged Massure 0726		Now Condidate Standard
	Maintenance Measure	Endorsed Measure 0736:	New Candidate Standard	New Candidate Standard
0357: Abdominal aortic	0359 : Abdominal aortic	Survival predictor for	1523: In-hospital mortality	1534: In-hospital mortality
aneurysm (AAA) repair	artery (AAA) repair mortality	abdominal aortic aneurysm	following elective open	following elective EVAR of small AAAs
volume (IQI 4)	rate (IQI 11)	(AAA)	repair of small AAAs	SHIAH AAAS
39,963	25 - 29 0.1% 0.1% 0.0%			
Female 23.5% 27.3%	0.0% 0.0%			
21.5% 17.8% 20.3%	30 - 34 0.0% 0.1% 0.0%			
18 - 24 0.0% 0.0% 0.0%	0.0% 0.0%			
0.0% 0.0%	35 - 39 0.0% 0.1% 0.1%			
25 - 29 0.1% 0.1% 0.0%	0.0% 0.1%			
0.0% 0.0%	40 - 44 0.1% 0.5% 0.0%			
30 - 34 0.0% 0.1% 0.0%	0.1% 0.1%			
0.0% 0.0%	45 - 49 0.8% 0.9% 0.8%			
35 - 39 0.0% 0.1% 0.1%	0.3% 0.5%			
0.0% 0.1%	50 - 54 1.9% 2.4% 1.8%			
40 - 44 0.1% 0.5% 0.0%	1.2% 1.5%			
0.1% 0.1%	55 - 59 4.7% 6.3% 5.8%			
45 - 49 0.8% 0.9% 0.8%	3.5% 4.3%			
0.3% 0.5%	60 - 64 11.0% 12.5% 9.0%			
50 - 54 1.9% 2.4% 1.8%	9.4% 10.2%			
1.2% 1.5%	70 - 74 18.7% 21.4% 14.9%			
55 - 59 4.7% 6.3% 5.8%	20.1% 20.2%			
3.5% 4.3%	75 - 79 19.7% 20.5% 16.4%			
60 - 64 11.0% 12.5% 9.0%	22.2% 21.6%			
9.4% 10.2%	80 - 84 17.3% 11.5% 19.7%			
70 - 74 18.7% 21.4% 14.9%	17.3% 16.1%			
20.1% 20.2%	85 - high 10.0% 4.3% 16.8%			
75 - 79 19.7% 20.5% 16.4%	9.4% 8.5%			
22.2% 21.6%	169-1 0.0% 26.7% 0.1%			
80 - 84 17.3% 11.5% 19.7%	0.6% 6.3%			
17.3% 16.1%	169-2 0.0% 30.2% 0.0%			
85 - high 10.0% 4.3%	1.1% 7.3%			
16.8% 9.4% 8.5%	169-3 0.1% 21.1% 0.0%			
169-1 0.0% 26.7% 0.1%	0.5% 5.0%			
0.6% 6.3%	169-4 88.4% 14.5% 6.2%			
169-2 0.0% 30.2% 0.0%	0.4% 8.6%			
1.1% 7.3%	173-2 0.0% 0.0% 0.0%			
169-3 0.1% 21.1% 0.0%	35.1% 24.6%			
0.5% 5.0%	173-3 0.0% 0.0% 0.1% 7.6%			
169-4 88.4% 14.5% 6.2%	5.3%			
0.4% 8.6%	173-4 0.0% 0.0% 84.4%			
173-2 0.0% 0.0% 0.0%	2.3% 3.8%			
35.1% 24.6%	MDC 5 11.5% 7.5% 9.2%			

Maintenance Measure	Maintenance Measure	Endorsed Measure 0736:	New Candidate Standard	New Candidate Standard
0357 : Abdominal aortic	0359 : Abdominal aortic	Survival predictor for	1523 : In-hospital mortality	1534 : In-hospital mortality
aneurysm (AAA) repair	artery (AAA) repair mortality	abdominal aortic aneurysm	following elective open	following elective EVAR of
volume (IQI 4)	rate (IQI 11)	(AAA)	repair of small AAAs	small AAAs
173-3 0.0% 0.0% 0.1%	2.1% 4.0%			
7.6% 5.3%	Transfer-in 14.5% 2.4%			
173-4 0.0% 0.0% 84.4%	18.5% 1.6% 2.9%			
2.3% 3.8%	Source: State Inpatient			
MDC 5 11.5% 7.5% 9.2%	Databases (SID), Healthcare			
2.1% 4.0%	Cost and Utilization Project			
Transfer-in 14.5% 2.4%	(HCUP). APR-DRG 169			
18.5% 1.6% 2.9%	(MAJOR THORACIC &			
Source: State Inpatient	ABDOMINAL VASCULAR			
Databases (SID),	PROCEDURES); APR-DRG			
Healthcare Cost and	173 (OTHER VASCULAR			
Utilization Project (HCUP).	PROCEDURES)			
APR-DRG 169 (MAJOR				
THORACIC &				
ABDOMINAL	Table 2B. Model Covariates,			
VASCULAR	2008			
PROCEDURES); APR-	Open, Ruptured Open, Un-			
DRG 173 (OTHER	ruptured Endovascular,			
VASCULAR	Ruptured Endovascular,			
PROCEDURES)	Un-ruptured Original			
	(Composite)			
	Odds Ratios			
Table 2B. Model	Female 1.116 1.063 1.548*			
Covariates, 2008	1.386* 1.143*			
Open, Ruptured Open,	18 - 24			
Un-ruptured Endovascular,	25 - 29			
Ruptured Endovascular,	30 - 34			
Un-ruptured Original	35 - 39			
(Composite)	40 - 44			
Odds Ratios	45 - 49 0.538 0.634 0.387			
Female 1.116 1.063 1.548*	50 - 54 0.445 0.483 1.761			
1.386* 1.143*	0.637			
18 - 24	55 - 59 0.547* 0.713 0.526			
25 - 29	1.068 0.644*			
30 - 34	60 - 64 0.910 0.814 1.048			
35 - 39	1.613 0.999			
40 - 44	70 - 74 1.721* 1.023 1.699			
45 - 49 0.538 0.634 0.387	1.138 1.328*			
50 - 54 0.445 0.483 1.761	75 - 79 1.804* 1.410 1.800*			

	TWITTOTALL CONDITT I OKOM					
	Maintenance Measure 0357: Abdominal aortic aneurysm (AAA) repair	Maintenance Measure 0359: Abdominal aortic artery (AAA) repair mortality	Endorsed Measure 0736: Survival predictor for abdominal aortic aneurysm	New Candidate Standard 1523: In-hospital mortality following elective open	New Candidate Standard 1534: In-hospital mortality following elective EVAR of	
	volume (IQI 4)	rate (IQI 11)	(AAA)	repair of small AAAs	small AAAs	
	volume (IQI 4) 0.637 55 - 59 0.547* 0.713 0.526 1.068 0.644* 60 - 64 0.910 0.814 1.048 1.613 0.999 70 - 74 1.721* 1.023 1.699 1.138 1.328* 75 - 79 1.804* 1.410 1.800* 1.862* 1.569* 80 - 84 2.941* 2.459* 2.346* 2.002* 2.499* 85 - high 4.225* 2.469* 2.052* 2.717* 3.006* 169-1 0.052* 41.786* 13.066* 169-2 0.070* 15.660* 13.998* 169-3 0.284* 71.019* 55.144* 169-4 1.375* 2.372* 1.587 173-2 1.576 1.470 173-3 32.328* 30.741* 173-4 0.789 MDC 5 1.000 1.000 1.000 1.000 1.000 Transfer-in 0.948 0.779 1.011 1.824* 1.251* C-statistic 0.659 0.868 0.626 0.942 0.940 Source: State Inpatient Databases (SID), Healthcare Cost and Utilization Project (HCUP);	rate (IQI 11) 1.862* 1.569* 80 - 84 2.941* 2.459* 2.346* 2.002* 2.499* 85 - high 4.225* 2.469* 2.052* 2.717* 3.006* 169-1 0.052* 41.786* 13.066* 169-2 0.070* 15.660* 13.998* 169-3 0.284* 71.019* 55.144* 169-4 1.375* 2.372* 1.587 173-2 1.576 1.470 173-3 32.328* 30.741* 173-4 0.789 MDC 5 1.000 1.000 1.000 1.000 1.000 Transfer-in 0.948 0.779 1.011 1.824* 1.251* C-statistic 0.659 0.868 0.626 0.942 0.940 Source: State Inpatient Databases (SID), Healthcare Cost and Utilization Project (HCUP); * - significant at p<.05	(AAA)	repair of small AAAs	small AĀAs	
	* - significant at p<.05					
Type Score	Count	Rate/proportion		Rate/proportion	Rate/proportion	
Algorithm	The volume is the number	Each indicator is expressed		Identify denominator,	Identify denominator,	
	of discharges with a	as a rate, is defined as		exclude non-elective repair	exclude non-elective repair	
	diagnosis of, and a	outcome of interest /		of symptomatic or ruptured	of symptomatic or ruptured	
	procedure for AAA.	population at risk or		patients and men with AAA	patients and men with AAA	

Maintenance 0357: Abdomi aneurysm (AA	Measure nal aortic A) repair Maintenance Measure 0359: Abdominal aortic artery (AAA) repair mortality		New Candidate Standard 1523: In-hospital mortality following elective open	New Candidate Standard 1534: In-hospital mortality following elective EVAR of
volume (IQI 4)	rate (IQI 11)	(AAA)	repair of small AAAs	small AAAs
	artery (AAA) repair mortality rate (IQI 11) 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	abdominal aortic aneurysm (AAA)		
	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			

	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
		can be found at http://qualityindicators.ahrq.g ov/IQI_download.htm			
Data Source	Electronic administrative data/claims	Electronic administrative data/claims	Electronic administrative data/claims	Registry data	Registry data
Level of Measurement /Analysis	Facility/agency	Facility/agency	Facility/agency	Clinicians: Individual, group; Facility/agency; Can be measured at all levels	Clinicians: Individual, group; Facility/agency; Can be measured at all levels
Care Settings	Hospital	Hospital	Hospital	Hospital	Hospital

Beta Blocker

STS measures have same focus and data source (registry).

CMS measures are similar in focus and similar to the STS measures; however for Measure 0284, population is not limited to CABG.

	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
Status	Endorsed 5/2007	Currently undergoing maintenance review Notes: Criteria met Y-21, N-0	Endorsed 5/2007	Currently undergoing maintenance review Notes: Criteria met Y-19, N-2 Developer was asked to further define "prior to arrival" specifying on "daily" beta blocker therapy prior to arrival.
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 preoperative 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
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. (The peri- operative period = 24 hours prior to surgical incision through discharge from post-anesthesia care/recovery area.
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 procedures.	Total number of isolated CABG procedures.	Patients with coronary artery bypass graft. CPT codes: 33510, 33511, 33512, 33513, 33514, 33516, , 33533, 33534, 33535, 33536	All surgery patients on beta blocker therapy prior to arrival. NOTE: To be in the denominator, the patient must be on a beta-

	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 isolated	Surgery patients on beta blocker
	isolated CABG (1)	Tre operative searchestance	CABG (2)	therapy prior to admission who
				received a beta blocker during the
				perioperative period
				blocker prior to arrival. The case is
				excluded if the patient is not on a
				beta-blocker 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
Donominoton		E-male Male 10 and ald		reasons, select "No".
Denominator		Female, Male; 18 and older		Female, Male; Patients >/= 18
Categories		N. adam of industrial CARC		years of age
Denominator Details		Number of isolated CABG		Data Elements:

Fndo		Maintenance Measure 0127:	Endorsed Measure 0236: Pre-op	Maintenance Measure 0284:
		Pre-operative beta blockade	beta-blocker in patient with isolated	Surgery patients on beta blocker
	ted CABG (1)	Tie-operative beta blockade	CABG (2)	therapy prior to admission who
Isolate	led CABG (1)		CABG (2)	
				received a beta blocker during the
		1 1 1' C		perioperative period
		procedures excluding cases for		Admission Date
		which preoperative beta blockers		Anesthesia Start Date
		were contraindicated.		Beta-Blocker Current Medication
				Beta-Blocker During Pregnancy
		Isolated CABG is determined as a		Birthdate
		procedure for which all of the		Clinical Trial
		following apply (note: full terms		Discharge Date
		for STS field names are provided		ICD-9-CM Principal Procedure
		in brackets []):		Code
		- OpCAB [Coronary Artery		Laparoscope
		Bypass] is marked "Yes"		Perioperative Death
		- (VADProc [VAD Implanted or		Reason for Not Administering
		Removed] is marked "No" or		Beta-Blocker-Perioperative
		"Missing") or (VADProc is		Sex
		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],		

	Endorsed Measure 0235: Pre-op	Maintenance Measure 0127:	Endorsed Measure 0236: Pre-op	Maintenance Measure 0284:
	beta blocker in patient with isolated CABG (1)	Pre-operative beta blockade	beta-blocker in patient with isolated CABG (2)	Surgery patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period
Exclusions		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" Age qualification: For patients <20 years, the data are accepted into the database, but are not included in the national analysis and report.		Age qualification: Patients <18 years of age. • 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
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

	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
				Beta-Blocker-Perioperative
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 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 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

 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 isolated	Surgery patients on beta blocker
isolated CABG (1)	1 re-operative beta blockade	CABG (2)	therapy prior to admission who
isolated CABO (1)		CABO (2)	received a beta blocker during the
			perioperative period
			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 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

	Maintanana Magauma 0127		Maintenance Measure 0284:
Endorsed Measure 0235: Pre-op	Maintenance Measure 0127:	Endorsed Measure 0236: Pre-op	
beta blocker in patient with	Pre-operative beta blockade	beta-blocker in patient with isolated	Surgery patients on beta blocker
isolated CABG (1)		CABG (2)	therapy prior to admission who
			received a beta blocker during the
			perioperative period
			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
<u> </u>	<u> </u>	<u> </u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

	Mointenance Messure 0127		Maintananaa Massaasa 0204.
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 isolated	Surgery patients on beta blocker
isolated CABG (1)		CABG (2)	therapy prior to admission who
			received a beta blocker during the
			perioperative period
			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-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 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.

	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 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
Data Source	Registry	Registry	Electronic administrative data/claims	Electronic administrative data/claims; Paper medical record/flow sheet
Level of Measurement /Analysis	Clinicians: Individual	Clinicians: Facility/agency	Clinicians: Individual	Facility/agency,
Care Settings	Hospital	Hospital	Hospital	Hospital

Cataracts

Cataracts	N C UL M 150C C	T 1 115 0505 C 20/40 1
	New Candidate Measure 1536: Cataracts:	Endorsed Measure 0565: Cataracts: 20/40 or better
	Improvement in patient's visual function within 90	visual acuity within 90 days following cataract surgery
	days following cataract surgery	
Status	Currently undergoing review	Endorsed 10/2009
Steward	American Academy of Ophthalmology and Hoskins Center for Quality Eye Care	American Medical Association-Physician Consortium for Performance Improvement
Description	Percentage of patients aged 18 years and older who had	Percentage of patients aged 18 years and older with a
	cataract surgery and had improvement in visual	diagnosis of uncomplicated cataract who had cataract
	function achieved within 90 days following the cataract surgery.	surgery and no significant ocular 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 20/40
	improvement in visual function achieved within 90 days following cataract surgery, based on pre-operative and post-operative visual function instrument.	or better (distance or near) achieved within 90 days following cataract surgery.
Numerator	Reporting Numerator includes each of the following	Patients who had best-corrected visual acuity of 20/40
Details	instances:	or better (distance or near) achieved within 90 days
	A. Patients 18 years and older in sample who had an	following cataract surgery
	improvement in their visual function achieved within	CPT Category II code: 4175F-Best-corrected visual
	90 days following cataract surgery	acuity of 20/40 or better (distance or near) achieved
	B. Patients in sample who completed a pre-operative	within the 90 days following cataract surgery
	and post-operative visual function instrument, and with	
	the CPT Procedure Coses (with or without modifiers):	
	66840, 66850, 66852, 66920, 66930, 66940, 66982,	
	66983, 66984	
Denominator	All patients aged 18 years and older in sample who had	All patients aged 18 years and older who had cataract
	cataract surgery.	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 aged	All patients aged 18 years and older who had cataract
Details	18 years and older in sample who had cataract surgery	surgery and no significant pre-operative ocular
	• CPT Procedure Codes (with or without modifiers):	conditions impacting visual outcomes of surgery.
	66840, 66850, 66852, 66920, 66930, 66940, 66982,	CPT Procedure Codes (with or without modifiers):
	66983, 66984	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 conditions
Details		that impact the visual outcome of surgery (See
D' 1 A 1'	NT. 1.1 . 1	Denominator Exclusions Spreadsheet)
Risk Adjustment	No risk adjustment necessary	No risk adjustment necessary
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	

Now Condidate Massame 1526 Catamata	-
	Endorsed Measure 0565: Cataracts: 20/40 or better
	visual acuity within 90 days following cataract surgery
differences between preoperative and postoperative	
visual function tests	
Rate/proportion	
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.	
Patient Reported Data/Survey	Electronic administrative data/claims, electronic
	health/medical record, paper medical record/flow-sheet
Clinicians: Physicians (MD/DO)	Clinicians: Individual, group
Ambulatory care: Ambulatory surgery center,	Ambulatory care: Clinic
clinic/urgent care, clinician office	
	visual function tests Rate/proportion 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. Patient Reported Data/Survey Clinicians: Physicians (MD/DO) Ambulatory care: Ambulatory surgery center,

Failure to Rescue

The measures have similar measure focus and use administrative data. Level of analysis for Measures 0352 and 0351 is facility. At original endorsement, the CHOP measure included both in-hospital and 30 day mortality. It was viewed as most inclusive though less actionable due to "noise" that included complications present on admission. The AHRQ measure was viewed as more actionable with subset of conditions judged to more likely be hospital complication than pre-existing condition or co-morbidity though it leaves out as many as 50 percent of patients. Ultimately both were recommended for endorsement with the rationale that the CHOP measure might have greater value as an overall surgical mortality measure and the AHRQ measure focused on a set of deaths that were more likely preventable thus more actionable.

	Maintenance Measure 0351:	Maintenance Measure 0352:	Maintenance Measure 0353:
	Death among surgical inpatients with serious, treatable complications (PSI 4)	Failure to rescue in-hospital mortality (risk adjusted)	Failure to rescue 30-day mortality (risk adjusted)
Status	Currently undergoing maintenance review Criteria met Y-18, N-1 Question related to age range resolved as exclusion age 90 and older	Currently undergoing maintenance review Criteria met Y-18, N-3 Questions related to age range, disparities and use in public reporting addressed	Currently undergoing maintenance review Criteria met Y-13, N-8 Questions related to age range, disparities, public reporting, and 30 day data capture addressed.
Steward	Agency for Healthcare Research and Quality	Children's Hospital of Philadelphia	Children's Hospital of Philadelphia
Description	Percentage of cases having developed specified complications of care with an in-hospital death.	Percentage of patients who died with a complications in the hospital.	Percentage of patients who died with a complication within 30 days from admission.
Type of Measure	Outcome	Outcome	Outcome
Numerator	All discharges with a disposition of "deceased" (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.	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	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. *When physician

	Maintenance Measure 0351: Death among surgical inpatients with serious, treatable complications (PSI 4)	Maintenance Measure 0352: Failure to rescue in-hospital mortality (risk adjusted) admission. *When physician part B is available, the definition of complications and comorbidities are augmented to include CPT codes.	Maintenance Measure 0353: Failure to rescue 30-day mortality (risk adjusted) part B is available, the definition of complications and comorbidities are augmented to include CPT codes.
Numerator Details	All discharges with a disposition of "deceased" (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.	Patients who died with complication and patients who died without documented complications. Death is defined as death in the hospital.	Patients who died with complication and patients who died without documented complications. Death is defined as death within 30 days from admission.
Denominator	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).	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)	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)
Denominator Categories Denominator Details	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,	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.	Adult patients admitted for one of the procedures in the General Surgery, Orthopedic or Vascular DRGs (see Appendix A http://www.research.chop.edu/progr ams/cor/outcomes.php)who developed an in hospital complication and those who died without a complication.

		E QUIEITT TORON	
	Maintenance Measure 0351: Death among surgical inpatients with serious, treatable complications (PSI 4)	Maintenance Measure 0352: Failure to rescue in-hospital mortality (risk adjusted)	Maintenance Measure 0353: Failure to rescue 30-day mortality (risk adjusted)
	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.qualityindicators.ahrq. gov/downloads/psi/TechSpecs42/P SI% 20 Appendices.pdf		
Exclusions	Exclude cases: • 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	Patients over age 90, under age 18.	Patients over age 90, under age 18.
	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 (DX1 =missing)		
	NOTE: Additional exclusion criteria is specific to each diagnosis (pneumonia, DVT/PE, sepsis, shock/cardiac arrest, or GI hemorrhage/acute ulcer).		
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	Risk Adjustment: Model was developed using logistic regression analysis. Associated data elements: age in years, sex, race, comorbidities, DRGs (combined with and without complications)	Risk Adjustment: Model was developed using logistic regression analysis. Associated data elements: age in years, sex, race, comorbidities, DRGs (combined with and without complications)

		L QUALITI FORUM	
	Maintenance Measure 0351:	Maintenance Measure 0352:	Maintenance Measure 0353:
	Death among surgical inpatients	Failure to rescue in-hospital	Failure to rescue 30-day mortality
	with serious, treatable complications (PSI 4)	mortality (risk adjusted)	(risk adjusted)
	covariates for gender, age in years	and procedure codes within DRGs,	and procedure codes within DRGs,
	(in 5-year age groups), modified	transfer status. Failure to rescue is	transfer status. Failure to rescue is
	CMS DRG and AHRQ	adjusted using a logistic regression	adjusted using a logistic regression
	Comorbidities. The reference	model where y is a failure and the	model where y is a failure and the
	population used in the model is the	total N is composed of patients	total N is composed of patients who
	universe of discharges for states	who develop a complication and	develop a complication and patients
	that participate in the HCUP State	patients who died without a	who died without a complication.
	Inpatient Databases (SID) for the	complication. According to	According to developer: The model
	year 2007 (updated annually), a	developer: The model adjustment	adjustment variables can vary. We
	database consisting of 43 states	variables can vary. We have found	have found that FTR results are
	and approximately 30 million	that FTR results are fairly stable,	fairly stable, even with little
	adult discharges. The expected rate is computed as the sum of the	even with little adjustment, since all patients in an FTR analysis	adjustment, since all patients in an FTR analysis have developed a
	predicted value for each case	have developed a complication (by	complication (by definition), they
	divided by the number of cases for	definition), they are a more	are a more homogeneous group of
	the unit of analysis of interest (i.e.,	homogeneous group of patients	patients than the entire population.
	hospital, state, and region). The	than the entire population. Hence	Hence severity adjustment plays
	risk adjusted rate is computed	severity adjustment plays	somewhat less of a role than in
	using indirect standardization as	somewhat less of a role than in	other outcome measures.
	the observed rate divided by the	other outcome measures.	
	expected rate, multiplied by the		
Stratification	reference population rate. User has an option to stratify by	Complicated patient has at least	Complicated patient has at least one
Stratification	Gender, age (5-year age groups),	one of the complications defined	of the complications defined in
	race / ethnicity, primary payer, and	in Appendix B	Appendix B
	custom stratifiers.	(http://www.research.chop.edu/pro	(http://www.research.chop.edu/prog
		grams/cor/outcomes.php)	rams/cor/outcomes.php)
		Complications are defined using	Complications are defined using the
		the secondary ICD9 diagnosis and	secondary ICD9 diagnosis and
		procedure codes and the DRG	procedure codes and the DRG code
		code of the current admission. When Physician Part B file is	of the current admission. When Physician Part B file is available,
		available, the definition of	the definition of complications and
		complications and comorbidities	comorbidities are augmented to
		are augmented to include CPT	include CPT codes.
		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.edu/pro	(http://www.research.chop.edu/prog
	interest / population at risk or numerator / denominator. The	grams/cor/outcomes.php)	rams/cor/outcomes.php)
	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-		

		E QUIEITT TORCM	
	Maintenance Measure 0351: Death among surgical inpatients with serious, treatable complications (PSI 4)	Maintenance Measure 0352: Failure to rescue in-hospital mortality (risk adjusted)	Maintenance Measure 0353: Failure to rescue 30-day mortality (risk adjusted)
	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/P SI_download.htm		
Data Source	Electronic administrative data/claims	Electronic administrative data/claims	Electronic administrative data/claims
Level of Measurement /Analysis	Facility/agency	Facility/agency; Health plan; Integrate delivery system; Population: National, regional/network, states, counties or cities	Facility/agency; Health plan; Integrate delivery system; Population: National, regional/network, states, counties or cities
Care Settings	Hospital	Hospital	Hospital

Pancreatic Resection

Measures 0365 and 0366 are designated as paired measures and developer commits to harmonize measures to include benign disease in Measure 0365. The focus of these measures is similar to Measure 0738 which combines volume and mortality though view differently (i.e., mortality vs. survival prediction).

	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	
Status	Currently undergoing maintenance review Criteria met – SC to vote on all criteria pending developer response to questions related to removing limitation to pancreatic cancer; addition of denominator exclusion for pancreatitis; removal of "transferring to another short-term hospital" from denominator exclusions. See changes below. Transfer change not made; rationale <1 percent and most for patient convenience.	Currently undergoing maintenance review Criteria met – SC to vote on all criteria pending developer response to questions related to removing limitation to pancreatic cancer; addition of denominator exclusion for pancreatitis. See changes below.	Endorsed 9/2010	
Steward	Agency for Healthcare Research and Quality	Agency for Healthcare Research and Quality	Leapfrog Group	
Description	Percentage of discharges with procedure code of pancreatic resection with an in-hospital death.	Number of discharges with procedure for pancreatic resection.	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	among cases meeting the inclusion and exclusion rules for the denominator. with ICD-9-CM codes for pancreatic resection procedure. patients a undergo Time with ICD-9-CM codes for pancreatic resection procedure.		Survival of pancreatic cancer patients age 18 and over who undergo a pancreatic resection. Time window: During the hospital admission	

Pancreatic resection mortality rate (IQI 9)	Pancreatic resection volume (IQI 2)	Endorsed Measure 0738: Survival predictor for pancreatic resection surgery
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 PANCREATICODUODENECT52. 5 Partial pancreatectomy 52.51 Proximal pancreatectomy 52.52 Distal pancreatectomy 52.53 Radical subtotal pancreatectomy 52.59 Other partial pancreatectomy Exclude cases: • MDC 14 (pregnancy, childbirth, and puerperium)	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.
Discharges, age 18 years and older, with ICD-9-CM pancreatic resection code procedure in any field. Time window: Time window can be determined by user, but is	N/A	All hospital patients age 18 and over with pancreatic cancer who had a pancreatic resection. Time Window: 12 months
generally a calendar year.	Famala Malar 10 and alder	
Female, Male; 18 and older	remaie, Maie, 18 and older	
Discharges, age 18 years and 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 PANCREATICODUODENECT	N/A	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
	Maintenance Measure 0365: Pancreatic resection mortality rate (IQI 9) 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 pancreatic resection code procedure in any field. Time window: Time window can be determined by user, but is generally a calendar year. Female, Male; 18 and older Discharges, age 18 years and 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	Pancreatic resection mortality rate (IQI 9) 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 pancreatic resection procedure. ICD-9-CM pancreatic resection procedure codes: 526 TOTAL PANCREATECTOMY 52.7 RAD PANCREATICODUODENECT52. 5 Partial pancreatectomy 52.51 Proximal pancreatectomy 52.52 Distal pancreatectomy 52.53 Radical subtotal pancreatectomy 52.59 Other partial pancreatectomy Exclude cases: • MDC 14 (pregnancy, childbirth, and puerperium) N/A Discharges, age 18 years and older, with ICD-9-CM pancreatic resection code procedure in any field. Time window: Time window can be determined by user, but is generally a calendar year. Female, Male; 18 and older Discharges, age 18 years and 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

	Maintenance Measure 0365:	Maintenance Measure 0366:	Endorsed Measure 0738: Survival
	Pancreatic resection mortality rate (IQI 9)	Pancreatic resection volume (IQI 2)	predictor for pancreatic resection surgery
			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 1529 MAL NEO SMALL BOWEL NOS 1560 MALIG NEO GALLBLADDER 1561 MAL NEO EXTRAHEPAT DUCTS 1562 MAL NEO AMPULLA OF VATER 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 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), year (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	Patients who do not have a diagnosis of pancreatic cancer
Exclusion Details	Exclude cases: • missing discharge disposition (DISP=missing), gender (SEX=missing), age	N/A	Pancreatectomy cases without a pancreatic cancer diagnosis code.

		Maintanana Maagura 0266	Endoned Massess 0720 C
	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
	(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) ICD-9-CM codes: 577.0 Acute pancreatitis 577.1 Chronic pancreatitis		
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), 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.	No risk adjustment necessary.	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 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 reflects the hospitals experience
		CITE CHATE DEPONDED OF CIDCUI	performing pancreatic resection

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
		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 (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

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
		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 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 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

		L QUALITI FOROM	P 1 116 0700 0
	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
			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*In(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.	N/A	
Type Score	Rate/proportion	Count	
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	The volume is the number of discharges with a procedure for pancreatic resection.	
	is also derived from hospital	CITE CHOTE DEPONDED OF CIPCHI	

	Maintenance Measure 0365:	Maintenance Measure 0366:	Endorsed Measure 0738: Survival
	Pancreatic resection mortality	Pancreatic resection volume (IQI 2)	predictor for pancreatic resection
	rate (IQI 9)		surgery
	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/		
	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 Antibiotics: Discontinued

All the measures have a similar measure focus in terms of discontinuation of antibiotics.

Measure 0637 is specific to cardiac procedures; uses health record data; level of analysis is clinician level in hospital or ambulatory care settings Measure 0128 is specific to cardiac procedures; uses registry data; level of analysis is clinician group/facility in hospital

Measure 0529 includes cardiac and other procedures; uses administrative/claims data; level of analysis is hospital.

Measure 0271 excludes cardiac procedures; uses administrative/claims, lab, health record data; level of analysis is clinician – individual, group in

hospital or ambulatory care settings.

Status Steward	Endorsed Measure 0637: Discontinuation of prophylactic antibiotics (cardiac procedures) Endorsed 7/2008 American Medical Association - Physician Consortium for Performance Improvement	Maintenance Measure 0128: Duration of antibiotic prophylaxis for cardiac surgery patients Currently undergoing maintenance review Criteria met Y-17, N-2 Society of Thoracic Surgeons	Maintenance Measure 0529: Prophylactic antibiotics discontinued within 24 hours after surgery end time Currently undergoing maintenance review Criteria met Y-19, N-0 Centers for Medicare & Medicaid Services	Endorsed Measure 0271: Discontinuation of prophylactic antibiotics (non-cardiac procedures) Endorsed 7/2008 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 cardiac surgery patients whose prophylactic antibiotics were discontinued within 48 hours after surgery end time.	Surgical patients whose prophylactic antibiotics were discontinued within 24 hours after surgery end time.	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 antibiotics (cardiac procedures)	Duration of antibiotic prophylaxis for cardiac surgery patients	Prophylactic antibiotics discontinued within 24 hours after surgery end time	Discontinuation of prophylactic antibiotics (non-cardiac procedures)
		Time window: Within 48 hours after surgery end time.		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 discontinued within 24 hours of surgical end time.
Numerator Details	CPT II 4043F: Documentation that an order was given to discontinue prophylactic antibiotics within 48 hours of surgical end time, cardiac procedure. *Note: CPT Category II Code 4043F may be provided for documentation that antibiotic discontinuation was ordered OR that antibiotic discontinuation was accomplished. Report CPT Category II Code 4043F if antibiotics were discontinued within 48 hours.	Number of cardiac surgery procedures in which appropriate antibiotic discontinuation [AbxDisc (STS Adult Cardiac Surgery Database Version 2.73)] is marked "yes"	Data Elements: Anesthesia End Date Anesthesia End Time Antibiotic Administration Date Antibiotic Administration Time	CPT II 4049F: Documentation that order was given to discontinue prophylactic antibiotics within 24 hours of surgical end time, noncardiac procedure. Note: CPT Category II Code 4049F is provided for documentation that antibiotic discontinuation was ordered OR that antibiotic discontinuation was accomplished. Report CPT Category II Code 4049F if antibiotics were discontinued within 24 hours
Denominator	All cardiac surgical patients aged 18 years and older undergoing procedures with the indications for prophylactic antibiotics AND who received a prophylactic antibiotic.	Number of patients undergoing cardiac surgery.	Number of surgical patients with: CABG (ICD-9-CM procedure codes 36.10-36.14, 36.19, 36.15-36.17, 36.2), other cardiac surgery (35.0- 35.95, 35.98, 35.99), colon 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,	All non-cardiac surgical patients undergoing procedures with the indications for prophylactic antibiotics and who received a prophylactic antibiotic.

	Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
	Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
	antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
			time	
			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 and	
Categories	CDT II 101CF D	N 1 C 1	older	CDT H 40.4 CF D
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 given
	antibiotics were given within 4 hours	A	Anesthesia Start Date	within 4 hours prior to surgical
	prior to	A cardiac procedure is determined as a	Antibiotic Administration Route	incision or given intraoperatively;
	surgical incision or given	procedure for which at least one of the	Antibiotic Name	CPT II 4042F: Documentation that
	intraoperatively; CPT II	following is not marked "no" or	Antibiotic Received	prophylactic antibiotics were neither
	4042F:Documentation that	"missing" (note: full terms for STS	Birthdate	given within 4 hours prior to surgical
	prophylactic antibiotics	field names are provided in brackets	Clinical Trial	incision nor given intraoperatively AND
	were neither given within 4 hours prior to	[]): OpCAB[Coronary Artery Bypass],	Discharge Date ICD-9-CM Principal Diagnosis Code	• CPT Procedure Codes:
	surgical incision nor given	OpValve[Valve Surgery], VADProc	ICD-9-CM Principal Diagnosis Code ICD-9-CM Principal Procedure Code	Integumentary: 15734, 15738, 19260,
	intraoperatively	[VAD Implanted or Removed], VSAV	Infection Prior to Anesthesia	19271, 19272, 19301-19307, 19361,
	intraoperatively	[Aortic Valve Procedure], VSMV	Laparoscope	19364, 19366-19369
	AND	[Mitral Valve Procedure], OpTricus	Oral Antibiotics	Spine: 22325, 22612, 22630, 22800,
	THE	[Tricuspid Valve Procedure]	Other Surgeries	22802, 22804, 63030, 63042
	CPT Procedure Codes:	Performed], OpPulm[Pulmonic Valve	Perioperative Death	Hip Reconstruction: 27125, 27130,
	Cardiothoracic Surgery: 33120,	Procedure Performed], OpOCard	Reasons to Extend Antibiotics	27132, 27134, 27137, 27138
	33130, 33140,	Other Cardiac Procedure other than	Surgical Incision Date	Trauma (Fractures): 27235, 27236,
	33141, 33202, 33250, 33251, 33256,	CABG or Valve], OCarLVA [Left	Surgical Incision Time	27244, 27245, 27758, 27759, 27766,
	33261, 33305,	Ventricular Aneurysm Repair],		27792, 27814
	33315, 33321, 33322, 33332, 33335,	OCarVSD [Ventricular Septal Defect		Knee Reconstruction: 27440-27443,
	33400, 33401,	Repair], OCarSVR [Surgical		27445-27447
	33403-33406, 33410, 33411, 33413,	Ventricular Restoration], OCarCong		Vascular: 33877, 33880, 33881,
	33416, 33422, 33425-33427, 33430,	[Congenital Defect Repair],		33883, 33886, 33891, 34800, 34802-
	33460, 33463-33465, 33475,	OCarTrma [surgical procedure for an		34805, 34825, 34830-34832, 34900,
	33496, 33510-33519, 33521-33523,	injury due to Cardiac Trauma],		35081, 35091, 35102, 35131, 35141,
	33530, 33533-	OCarCrTx [Cardiac Transplant],		35151, 35601, 35606, 35612, 35616,
	33536, 33542, 33545, 33548, 33572,	OCarACD [Arrhythmia Correction		35621, 35623, 35626, 35631, 35636-
	35021, 35211,	Surgery], OCAoProcType[Aortic		35638, 35642, 35645-35647, 35650,
	35216, 35241, 35246, 35271, 35276,	Procedure Type], EndoProc		35651, 35654, 35656, 35661, 35663,

	TATIONAL QUALITI FORUM				
	Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:	
	Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic	
	antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)	
			time		
	35311.	[Endovascular Procedure (TEVAR)],		35665, 35666, 35671, 36830	
		OCTumor [resection of an intracardiac		Spleen and Lymph Nodes: 38115	
		tumor], OCPulThromDis [Pulmonary		Esophagus: 43045, 43100, 43101,	
		Thromboembolectomy,, OCarOthr		43107, 43108, 43112, 43113, 43116-	
		[Other Cardiac Procedure other than		43118, 43121-43124, 43130, 43135,	
		those listed previously], ECMO		43300, 43305, 43310, 43312, 43313,	
		[Extracorporeal Membrane		43320, 43324-43326, 43330, 43331,	
		Oxygenation], OCarLasr [-		43340, 43341, 43350, 43351, 43352,	
		Transmyocardial Laser		43360, 43361, 43400, 43401, 43405,	
		Revascularization], OCarASD [Atrial		43410, 43415, 43420, 43425, 43496	
		Septal Defect Repair], OCarAFibSur		Stomach: 43500-43502, 43510,	
		[Atrial Fibrillation Surgical		43520, 43600, 43605, 43610, 43611,	
		Procedure]		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	
				Renal Transplant: 50300, 50320,	
				50340, 50360, 50365, 50370, 50380	
				Neurological Surgery: 22524, 22554,	
				22558, 22600, 22612, 22630, 35301,	
				61154, 61312, 61313, 61315, 61510,	
l	1			,	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
antibiotics (cardiac procedures)	cardiac surgery patients	time	and blottes (non-eardiac procedures)
		time	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,
			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

	Endonard Massuma 0627.	Maintenance Massaure 0129.	•	Endaged Massure 0271.
	Endorsed Measure 0637: Discontinuation of prophylactic	Maintenance Measure 0128: Duration of antibiotic prophylaxis for	Maintenance Measure 0529: Prophylactic antibiotics discontinued	Endorsed Measure 0271: Discontinuation of prophylactic
	* * *	* * *		* * *
	antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end time	antibiotics (non-cardiac procedures)
Exclusions	Exclude patients for whom	Exclusions:	•Principal or admission diagnosis	Documentation of medical reason(s)
	prophylactic antibiotics was not	- Patients who had a principal	suggestive of pre-operative infectious	for not discontinuing prophylactic
	ordered by reason of appropriate	diagnosis suggestive of preoperative	disease	antibiotics within 24 hours of surgical
	denominator exclusion. If using	infectious diseases	•Infectious diseases (001.0-139.8)	end time.
	electronic data, exclude patients using	- Patients whose ICD-9-CM principal	•Meningitis (320.0-326)	
	the following code: If using the	procedure was performed entirely by	•Ear infection (380.0-380.23; 382.0-	
	medical record or hybrid	Laparoscope	382.20)	
	methodologies, exclude patients who	- Patients enrolled in clinical trials	•Endocarditis (421.0-422.99)	
	have documentation in the medical	- Patients with documented infection	•Respiratory (460-466.19; 472-476.1;	
	record of: medical reason(s) for not	prior to surgical procedure of interest	480-487.1; 490-491.9; 510-511.9;	
	discontinuing prophylactic antibiotics within 48 hours of surgical end time,	- Patients who expired perioperatively - Patients who were receiving	513-513.1) •Digestive (540-542; 575.0)	
	cardiac procedure. If using the EHR	antibiotics more than 24 hours prior to	•Renal (590-590.9; 595.0)	
	methodology, exclude patients using	surgery	•Prostate (601.0-601.9)	
	the codes listed in the electronic data	- Patients who were receiving	•Gynecologic (614-614.9; 616-616.4)	
	collection methodology or who have	antibiotics within 24 hours prior to	•Skin (680-686.9)	
	documentation in the medical record	arrival	•Musculo-skeletal (711.9; 711.99;	
	of the appropriate denominator	- Patients who did not receive any	730.0-730.99)	
	exclusion.	antibiotics during this hospitalization	•Fever of unknown origin (780.6)	
		- Patients with reasons to extend	•Septic shock (785.59)	
		antibiotics	•Bacteremia (790.7)	
		This list will be provided in the STS	•Viremia (790.8)	
		Adult Cardiac Surgery Database Data	•Receiving antibiotics at the time of	
		Manager's Training Manual as	admission (except colon surgery	
		acceptable exclusions.	patients taking oral prophylactic	
			antibiotics);	
			•Medical records do not include	
			antibiotic start date/time, incision	
			date/time, antibiotic end date/time,	
			surgery end date/time;	
			•Receiving antibiotics > 24 hours	
			prior to surgery (except colon	
			surgery patients taking oral	
			prophylactic antibiotics); •No antibiotics received before or	
			during surgery, or within 24 hours	
			after surgery end time (i.e., patient	
			did not receive any prophylactic	
			antibiotics);	
			•Diagnosed with and treated for	
			2 105.10300 11111 1110 1101100 101	

	Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
	Discontinuation of prophylactic antibiotics (cardiac procedures)	Duration of antibiotic prophylaxis for cardiac surgery patients	Prophylactic antibiotics discontinued within 24 hours after surgery end time	Discontinuation of prophylactic antibiotics (non-cardiac procedures)
			infections within two days after surgery date •No antibiotics received during hospitalization	
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 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	

Endorsed Measure 0637:	Maintanana Maaguma 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
	Maintenance Measure 0128:		
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end time	antibiotics (non-cardiac procedures)
		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	
		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	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
antiologies (cardiae procedures)	cardiae surgery patients	time	antibiotics (non cardiae procedures)
		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 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 for	
		CMS. Proceed to step 47 and check	
		the Stratified Measures for Overall	

	Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
	Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
	antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
			Rate (SCIP-Inf-3a) 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 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. If Anesthesia Start Date equals 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	
L		I .		

T 1 11/ 0/25	NATIONAL QUALIT		7 7 775
Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
		time	
		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. 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 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	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
aminorous (cardiae procedures)	curotae surgery patients	time	ammerous (non surance prosedures)
		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.	
		coif 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 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	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
antibiotics (cardiac procedures)	cardiac surgery patients	time	antibiotics (non cardiac procedures)
		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 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	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
1 1	1 1 7		* * *
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end time	antibiotics (non-cardiac procedures)
		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 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 B and will	
		not be in the Measure Population.	
		Stop processing for CMS. Proceed to	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
antioloties (cardiae procedures)	cardiae surgery patients	time	antiolotics (non cardiae procedures)
		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 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	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
anniolotics (cardiae procedures)	cardiae surgery patients	time	antibiotics (non cardiae procedures)
		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	
		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	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
antiologies (cardiae procedures)	cardiae surgery patients	time	antibiotics (non cardiae procedures)
		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 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	

E. J 1 M 0/27	Maintenant Manage 0120		E. J 1M 0271
Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
		time	
		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	
		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 to	
		1 for ANY antibiotic dose, continue	
		processing and proceed to Surgical	
		Incision Time.	
		28.Check Surgical Incision Time	
		20.011011 Dai grout moiston Time	

E-11M0/25	Maintenant Marine 0120		E. J J.M 0251
Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
		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 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	

 Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
antibiotics (cardiac procedures)	cardiac surgery patients	time	antibiotics (non-cardiac procedures)
		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.	
		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	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
antibiotics (cardiae procedures)	cardiae surgery patients	time	antibiotics (non cardiae procedures)
		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.	
		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.	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
antibiotics (cardiae procedures)	cardiae surgery patients	time	antibiotics (non cardiae procedures)
		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	
		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 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	
		a. Annibidic Days II is gicalci ulali 3	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
antibiotics (cardiac procedures)	cardiac surgery patients	time	antibiotics (non-cardiac procedures)
		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 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.	
		Comminguion.	

	Endorsed Measure 0637:	Mointanana Magaum 0128		Endorsed Measure 0271:
	Discontinuation of prophylactic	Maintenance Measure 0128: Duration of antibiotic prophylaxis for	Maintenance Measure 0529: Prophylactic antibiotics discontinued	Discontinuation of prophylactic
	antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
			time	
			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 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.	
L			Commission.	

Endorsed Measure 0637:	Maintanana Masaura 0120.	Maintenance Measure 0529:	Endorsed Measure 0271:
	Maintenance Measure 0128:		
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end time	antibiotics (non-cardiac procedures)
		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 Joint Commission.	
		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 Antibiotic	
		Administration Time minus	
		1 Millionation 1 line lilling	

Endouged Moseums 0/27.	Maintenance Massume 0120.		Endouged Moosens 0271.
Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end time	antibiotics (non-cardiac procedures)
		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:	
		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	

Endowed Moseum 0/27.	Maintenance Magazine 0128.		Endoned Massess 0271.
Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end time	antibiotics (non-cardiac procedures)
		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-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	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for		Discontinuation of prophylactic
1 1	1 1 7	Prophylactic antibiotics discontinued	* * *
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end time	antibiotics (non-cardiac procedures)
		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	
		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	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
antibiotics (cardiac procedures)	curdiae surgery patients	time	antibiotics (non cardiac procedures)
		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.	
		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	
		Procedure Code is on Table 5.01, for	
		Stratified Measure SCIP-Inf-3b, set	
		the Measure Category Assignment	
		une measure Category Assignment	

E 1 134 0/25	With Manager		E 1 134 0051
Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
		time	
		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-Inf-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 recheck the	
		ICD-9-CM Principal Procedure	
		Code.	
		51. 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-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-	

Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
antibiotics (cardiae procedures)	cardiae surgery patients	time	antiologies (non cardiae procedures)
		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. 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-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-	
		1 1351 girment for measure berr -IIII-	

	Endorsed Measure 0637:	Maintenance Measure 0128:	Maintenance Measure 0529:	Endorsed Measure 0271:
	Discontinuation of prophylactic	Duration of antibiotic prophylaxis for	Prophylactic antibiotics discontinued	Discontinuation of prophylactic
	antibiotics (cardiac procedures)	cardiac surgery patients	within 24 hours after surgery end	antibiotics (non-cardiac procedures)
			time	
			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 data/claims,
	paper medical record/flow-sheet		data/claims, paper medical	lab data, paper medical record/flow-
			record/flow-sheet	sheet
Level of	Clinicians: Individual, group	Clinicians: Group; Facility/agency;	Facility/agency	Clinicians: Individual, group
Measurement		Population: National,		
/Analysis		regional/network, states, counties or		
•		cities		
Care Settings	Hospital, Ambulatory care:	Hospital	Hospital	Hospital, Ambulatory care:
	Ambulatory surgery center			Ambulatory surgery center

Prophylactic Antibiotics: Selection

The measure focus is similar in terms of antibiotic selection though different in terms of indication and/or population to which they apply.

Measure 0126 uses registry data and a level of measurement at the clinician and facility level in hospitals Measure 0268 uses administrative/claims, lab, medical record data; level of measurement is clinician in hospitals

Measure 0528 uses administrative/claims, lab, medical record data; level of measurement is hospitals

	Maintanana Maganna 0126.	· · · · · · · · · · · · · · · · · · ·	<u> </u>
	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
Status	Currently undergoing maintenance review Criteria met Y-19, N-0	Endorsed 7/2008	Currently undergoing maintenance review Criteria met Y-18, N-0
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	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 "yes"		Data Elements: Antibiotic Administration Route Antibiotic Allergy Antibiotic Name Oral Antibiotics Vancomycin

		AL QUALITY FORUM	_
	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
Denominator	Number of patients undergoing cardiac surgery. Time window: 12 months	All surgical patients aged 18 years and older undergoing procedures with the indications for a first or second generation cephalosporin prophylactic antibiotic.	Number of surgical patients with: CABG (ICD-9-CM procedure codes 36.10-36.14, 36.19, 36.15-36.17, 36.2), other cardiac surgery (35.0- 35.95, 35.98, 35.99), colon 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 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], OCarCTX [Cardiac Transplant], OCarACD [Arrhythmia Correction Surgery], OCAoProcType[Aortic Procedure Type], EndoProc [Endovascular Procedure (TEVAR)], OCTumor [resection of an intracardiac tumor], OCPulThromDis [Pulmonary Thromboembolectomy,, OCarOthr	Report one of the following CPT Category II codes:	Data Elements: Anesthesia End Date Anesthesia End Time Anesthesia Start Date Admission Date Antibiotic Administration Date 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

	AL QUALITY FORUM	
Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
for cardiac surgery patients	second generation cephalosporin	surgical patients
Other Cardiac Procedure other	35151, 35601, 35606, 35612, 35616,	
than those listed previously],	35621, 35623, 35626, 35631, 35636-	
ECMO [Extracorporeal Membrane	35638, 35642, 35645-35647, 35650,	
Oxygenation], OCarLasr [-	35651, 35654, 35656, 35661, 35663,	
Transmyocardial Laser	35665, 35666, 35671, 36830	
Revascularization], OCarASD	Spleen and Lymph Nodes: 38115	
[Atrial Septal Defect Repair],	Esophagus: 43045, 43100, 43101,	
OCarAFibSur [Atrial Fibrillation	43107, 43108, 43112, 43113, 43116-	
Surgical Procedure]	43118, 43121-43124, 43130, 43135,	
	43300, 43305, 43310, 43312, 43313,	
	43320, 43324-43326, 43330, 43331,	
	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	
	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,	

		Endaged Magging 0208: Calastina	Maintanana Mag 0520
	Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
	Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for surgical patients
	for cardiac surgery patients	second generation cephalosporin	surgical patients
		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,	
		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	Exclusions include:	Documentation of medical reason(s)	•pre-operative infectious disease
	- Patients who had a principal	for not ordering cefazolin OR	•Infectious diseases (001.0-139.8)
	diagnosis suggestive of	cefuroxime for antimicrobial	•Meningitis (320.0-326)
	preoperative infectious	prophylaxis.	•Ear infection (380.0-380.23; 382.0-
	diseases		382.20)
	- Patients whose ICD-9-CM		•Endocarditis (421.0-422.99)
	principal procedure was		•Respiratory (460-466.19; 472-476.1;
	performed entirely by		480-487.1; 490-491.9; 510-511.9;
	Laparoscope		513-413.1)
	- Patients enrolled in clinical		•Digestive (540-542; 575.0)
	trials		•Renal (590-590.9; 595.0)
			•Prostate (601.0-601.9)
	- Patients with documented		•Gynecologic (614-614.9; 616-616.4)
	infection prior to surgical		•Skin (680-686.9)
	procedure of interest		•Musculo-skeletal (711.9-711.99,
	- Patients who expired		730.0-730.99) •Fever of unknown origin (780.6)
	perioperatively		•Septic shock (785.59)
	- Patients who were receiving		•Bacteremia (790.7)
	antibiotics more than 24 hours		•Viremia (790.8)
	prior to surgery		•Receiving antibiotics at the time of
	- Patients who were receiving		admission (except colon surgery
	antibiotics within 24 hours		patients taking oral prophylactic
	prior to arrival		antibiotics)
	- Patients who did not receive		•Medical records do not include
	any antibiotics before or during		antibiotic start date/time or incision
	surgery, or within 24 hours		date/time, or surgery end date/time
	after anesthesia end time (i.e.,		•Receiving antibiotics > 24 hours
	unicouncola cha tillic (i.e.,	L	

	1 1111011	AL QUALITITORUM	
	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
	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"		prior to surgery (except colon surgery patients taking oral prophylactic antibiotics) No antibiotics received before or during surgery, or within 24 hours after surgery end time (i.e., patient did not receive any prophylactic antibiotics)
Exclusion Details	Exclusion	Append modifier to CPT Category II code: 4041F-1P	Data Elements: Birthdate Clinical Trial ICD-9-CM Principal Diagnosis Code Infection Prior to Anesthesia Laparoscope Perioperative Death
Risk Adjustment	No risk adjustment necessary	No risk adjustment necessary	No risk adjustment necessary
Stratification	N/A		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		Rate/proportion
Algorithm	N/A		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 57 and check the Stratified Measures for Overall

	AL QUALITY FORUM	
Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
for cardiac surgery patients	second generation cephalosporin	surgical patients
		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.
		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-
l .	<u> </u>	Micasares for Overall Rate (SCII-IIII-

Maintenance Measure 0126: Selection of antibiotic prophylaxis for cardiac surgery patients Endorsed Measure 0268: Selection of prophylactic antibiotic: First or second generation cephalosporin 2a) for The Joint Commis c. If Laparoscope equals 2 processing and proceed to Trial. 7.Check Clinical Trial a. If Clinical Trial is missic case will proceed to a Me. Category Assignment of Y be rejected. Stop processin CMS. Proceed to step 57 the Stratified Measures fo Rate (SCIP-Inf-2a) for The Commission. b. If Clinical Trial equals	sion.
for cardiac surgery patients second generation cephalosporin 2a) for The Joint Commis c. If Laparoscope equals 2 processing and proceed to Trial. 7. Check Clinical Trial a. If Clinical Trial is missicase will proceed to a Me. Category Assignment of X be rejected. Stop processing CMS. Proceed to step 57 at the Stratified Measures for Rate (SCIP-Inf-2a) for The Commission.	sion.
2a) for The Joint Commis c. If Laparoscope equals 2 processing and proceed to Trial. 7.Check Clinical Trial a. If Clinical Trial is missi case will proceed to a Me. Category Assignment of X be rejected. Stop processi CMS. Proceed to step 57 at the Stratified Measures fo Rate (SCIP-Inf-2a) for Th Commission.	
c. If Laparoscope equals 2 processing and proceed to Trial. 7.Check Clinical Trial a. If Clinical Trial is missi case will proceed to a Me. Category Assignment of X be rejected. Stop processi CMS. Proceed to step 57 a the Stratified Measures fo Rate (SCIP-Inf-2a) for Th Commission.	
processing and proceed to Trial. 7. Check Clinical Trial a. If Clinical Trial is missicase will proceed to a Medicategory Assignment of Medicategory Assign	
Trial. 7.Check Clinical Trial a. If Clinical Trial is missicase will proceed to a Medicategory Assignment of Yobe rejected. Stop processis CMS. Proceed to step 57 at the Stratified Measures for Rate (SCIP-Inf-2a) for The Commission.	
7.Check Clinical Trial a. If Clinical Trial is missicase will proceed to a MecCategory Assignment of Yobe rejected. Stop processin CMS. Proceed to step 57 at the Stratified Measures for Rate (SCIP-Inf-2a) for The Commission.	Clinical
a. If Clinical Trial is missicase will proceed to a MecCategory Assignment of Yobe rejected. Stop processin CMS. Proceed to step 57 the Stratified Measures for Rate (SCIP-Inf-2a) for The Commission.	
case will proceed to a Me. Category Assignment of X be rejected. Stop processis CMS. Proceed to step 57 at the Stratified Measures for Rate (SCIP-Inf-2a) for The Commission.	
Category Assignment of X be rejected. Stop processis CMS. Proceed to step 57 at the Stratified Measures for Rate (SCIP-Inf-2a) for The Commission.	ing, the
be rejected. Stop processis CMS. Proceed to step 57 at the Stratified Measures for Rate (SCIP-Inf-2a) for The Commission.	asure
CMS. Proceed to step 57 at the Stratified Measures for Rate (SCIP-Inf-2a) for The Commission.	X and will
CMS. Proceed to step 57 at the Stratified Measures for Rate (SCIP-Inf-2a) for The Commission.	ng for
Rate (SCIP-Inf-2a) for Th Commission.	and check
Commission.	r Overall
Commission.	e Joint
	Yes, the
case will proceed to a Me	
Category Assignment of H	
not be in the Measure Pop	
Stop processing for CMS.	
step 57 and check the Stra	
Measures for Overall Rate	
2a) for The Joint Commis	,
c. If Clinical Trial equals	
continue processing and p	
Anesthesia Start Date.	100000
8.Check Anesthesia Start	Date
a. If the Anesthesia Start I	
missing, the case will produce	
Measure Category Assign	
and will be rejected. Stop	
for CMS. Proceed to step	
check the Stratified Meass	
Overall Rate (SCIP-Inf-2a	
Joint Commission.	1) 101 1110
b. If the Anesthesia Start 1	Date equals
Unable To Determine, the	
proceed to a Measure Cate	
Assignment of D and will	
Measure Population. Stop	
for CMS. Proceed to step	
check the Stratified Measi	
Overall Rate (SCIP-Inf-2a	
Joint Commission.	1) 101 111 0
c. If Anesthesia Start Date	equale o
Non Unable To Determine	
continue processing and p	
the Surgery Days calculat	
9.Calculate Surgery Days.	
Days, in days, is equal to	
Anesthesia Start Date min	ius me
Admission Date.	
10.Check Surgery Days	.1
a. If the Surgery Days is lo	
zero, the case will proceed	
Measure Category Assign	
and will not be in the Mea	
Population. Stop processing	ng for

	AL QUALITY FORUM	
Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
for cardiac surgery patients	second generation cephalosporin	surgical patients
		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-Inf-
		2a) 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 processing
 		

		AL QUALITY FORUM	1
	Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
	Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
	for cardiac surgery patients	second generation cephalosporin	surgical patients
			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
			Non Unable 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 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.
			16.Check Oral Antibiotics
			a. If Oral Antibiotics is missing, the
			case will proceed to a Measure
			Category Assignment of X and will
<u> </u>	•		<u>, , , , , , , , , , , , , , , , , , , </u>

	AL QUALITY FORUM	
Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
for cardiac surgery patients	second generation cephalosporin	surgical patients
		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.
		17.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
1	I	restrooms for early, record to step

		AL QUALITY FORUM	1
	Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
	Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
	for cardiac surgery patients	second generation cephalosporin	surgical patients
			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 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 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 dose
<u> </u>			

	AL QUALITY FORUM	
Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
for cardiac surgery patients	second generation cephalosporin	surgical patients
		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
		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. 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
1		missing, the case will proceed to a

	AL QUALITY FORUM	1
Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
for cardiac surgery patients	second generation cephalosporin	surgical patients
		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, continue processing and proceed to
1	I	1, continue processing and proceed to

Maintenance Measure 0126: Selection of authlibride prophylaxis for cardiac surgery patients Federal activities and biotic: First or second generation cephalosporin of prophylactic and biotic: First or second generation cephalosporin in the Authbiotic Timing I calculation. 29. Calculate Authbiotic Administration Date and Authbiotic Administration Time. Calculate Authbiotic doses with Non Unable to Determine data and time: Proceed with authbiotic doses that have Authbiotic Timing I calculated. 20. 30. Check Authbiotic Timing I is greater than 1440 minutes for any authbiotic dose, continue processing and recheck the ICD-9-CMP Principal Procedure Code. Proceed with authbiotic doses that have Authbiotic Timing I is greater than 1440 minutes for any authbiotic dose, continue processing and recheck the ICD-9-CMP Principal Procedure Code. Proceed with authbiotic doses that have Authbiotic Timing I is less than or equal to zero. b. If the Authbiotic Timing I is less than or equal to zero. b. If the Authbiotic doses that divide the process of		AL QUALITY FORUM	
for cardiac surgery patients second generation cephalosporin the Antibiotic Timing I calculation. 29 Calculate Antibiotic Timining I. Antibiotic Timining I. Antibiotic Timining I. Antibiotic Timining I. Antibiotic Timining I minutes is equal to the Surgical Incision Date and Antibiotic Administration Time. Calculate Antibiotic Timining I of all antibiotic doses with Mon Unable to Determine date and time. Proceed with antibiotic doses with Mon Unable to Determine date and time. Proceed with antibiotic Days I less than or equal to zero. 30 Cheek Antibiotic Timing I greater Antibiotic Timing I greater than 14-40 minutes for Lam antibiotic doses, continue processing and recheck the ICD-9-CM Principal Procedure Code. Proceed with antibiotic doses that 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 14-40 minutes for all antibiotic doses with mon Unable to Determine date and times for all antibiotic doses with mon Unable to Determine date and times for all antibiotic doses with mon Unable to Determine date and times for all antibiotic doses with mon Unable to Determine date and times for all antibiotic doses with mon Unable to Determine date and times for all antibiotic doses with mon Unable to Determine date and times for all antibiotic doses with mon Unable to Determine date and times for all antibiotic doses with mon Unable to Determine date and times for all antibiotic doses and the determine date and times for all antibiotic doses and to not not all to 50.3 the case will proceed to on on Table 5.03, the case will proceed to on Table 5.03, continue processing on Check Oral Antibiotics 32. Check Oral Antibiotics 32. Check Oral Antibiotics 33. Check Oral Antibiotics 34. If Oral Antibiotics 35. Check Oral Antibiotics 36. If Oral Antibiotics 37. Check Oral Antibiotics 38. If Oral Antibiotics 39. Check Oral Anti	Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
the Antibiotic Timing I calculation. 29 Calculate Antibiotic Timing I, in minutes, is equal to the Surgiacal Incision Date and Surgical Incision Time minus the Antibiotic Administration Date and Antibiotic Administration Date and Antibiotic Administration Time. Calculate Antibiotic doses with Non Unable to Determine date antibiotic doses that have Antibiotic Timing I calculated, or 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 on equal to zero. b. If the Antibiotic Timing I is 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 with non Unable to Determine date and time, continue processing and proceed to step 33 and check Anesthesia End Date. Proceed with antibiotic Days I less than or equal to zero. Do 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 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 of Code or Oral Antibiotics. 3.2.Check Oral Antibiotics. 3.2.Check oral Antibiotics is missing, the case will proceed to a Measure	Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
29.Calculate Antibiotic Timing I. in minutes, is equal to the Surgical Incision Date and Surgical Incision Time minus the Antibiotic Administration Time. Calculate Antibiotic Administration Time. Calculate Antibiotic Administration Time. Calculate Antibiotic Timing I for all antibiotic doses that have Antibiotic Timing I calculated, or Antibiotic Days I less than or equal to zero. 30.Cheek Antibiotic Timing I is greater than 1440 minutes for any antibiotic dose, continue proceed with antibiotic doses that have Antibiotic Timing I is greater than 1440 minutes for any antibiotic dose, continue proceed with antibiotic doses that have Antibiotic Timing I all It for 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 zero. b. If the Antibiotic Timing I is less than or equal to zero. b. If the Antibiotic Timing I is less than or equal to Java I antibiotic doses that have Antibiotic doses that have Antibiotic Days I less than or equal to great the proceed with antibiotic doses that have Antibiotic doses tha	for cardiac surgery patients	second generation cephalosporin	
Antibiotic Timing I, in minutes, is equal to the Surgical Incision Date and Surgical Incision That entitle 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 is greater than 1440 minutes or any antibiotic dose, continue processing and recheck the ICD - Wincipal Procedure Code. Proceed with antibiotic dose, continue processing and recheck the ICD - Wincipal 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 James For all antibiotic doses with not Unable to Determine date and time, continue processing and proceed to step 33 and check Anasthistic doses with not Unable to Determine date and time, continue processing and proceed to step 33 and check Anasthistic doses than have Antibiotic doses than have Antibiotic doses than have Antibiotic doses than than Antibiotic dose and I fit the ICD -9 CM Principal Procedure Code or Oral 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 for Overall Rate (SCIP-Inf. 2a) for The Joint Commission. b. If the ICD -9 CM Principal Procedure Code is not Table 5.03, continue processing and check of Antibiotics. 3.2.Check Oral Antibiotics is missing, the case will proceed to Amesure			the Antibiotic Timing I calculation.
equal to the Surgical Incision Time minus the Antibiotic Administration Date and 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 Timing I talculated, or Antibiotic Timing I is greater than 1440 minutes for any antibiotic dose, continue processing and recheck the ICD-9-CM Principal Procedure Code. Principal Procedure Code Principal Procedure Code Intiming I is greater than 1440 minutes for any antibiotic dose, continue 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 zero. b. If the Antibiotic doses that have Antibiotic doses who are all antibiotic doses who continue processing and proceed to step 33 and check Anesthesia Find Date. Proceed with antibiotic doses that have Antibiotic doses that have Antibiotic Days I less than or equal to zero. Do not recheck ICD-9-CM Principal Procedure Code or Antibiotic Days I less than or equal to zero. Do not recheck ICD-9-CM Principal Procedure Code or Principal Procedure Code in not on Table 5.03, the case will proceed to a feasure Category Assignment of B and will not be in the Measure Population. Stop processing and check the Stratific Measures Category Assignment of B and will not be in the Measure Population. It for It has a proceed to a feasure of the case will proceed to a Measure will proceed to a Measure of the case will procee			29.Calculate Antibiotic Timing I.
equal to the Surgical Incision Time minus the Antibiotic Administration Date and 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 Timing I talculated, or Antibiotic Timing I is greater than 1440 minutes for any antibiotic dose, continue processing and recheck the ICD-9-CM Principal Procedure Code. Principal Procedure Code Principal Procedure Code Intiming I is greater than 1440 minutes for any antibiotic dose, continue 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 zero. b. If the Antibiotic doses that have Antibiotic doses who are all antibiotic doses who continue processing and proceed to step 33 and check Anesthesia Find Date. Proceed with antibiotic doses that have Antibiotic doses that have Antibiotic Days I less than or equal to zero. Do not recheck ICD-9-CM Principal Procedure Code or Antibiotic Days I less than or equal to zero. Do not recheck ICD-9-CM Principal Procedure Code or Principal Procedure Code in not on Table 5.03, the case will proceed to a feasure Category Assignment of B and will not be in the Measure Population. Stop processing and check the Stratific Measures Category Assignment of B and will not be in the Measure Population. It for It has a proceed to a feasure of the case will proceed to a Measure will proceed to a Measure of the case will procee			Antibiotic Timing I, in minutes, is
and Surgical Incision Time misus 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 Timing I calculated, or Antibiotic Timing I less than or equal to zero. 30.Check Antibiotic Timing I is greater than 1440 minutes for any antibiotic dose, continue processing and recheck the ICD-Purport of the proceeding of th			
Antibotic Administration Time. Calculate Antibiotic Timing I for all antibiotic down with Non Unable to Determine date and time. Proceed with antibiotic down that have Antibiotic Timing I calculated, or Antibiotic Days I less than or equal to zero. 30.Cheek Antibiotic Timing I is greater than 1440 minutes for any antibiotic doses, continue processing and recheck the ICD-9-CM Principal Procedure Code Proceed with antibiotic doses that have Antibiotic Timing I selected to Jesses than or equal to zero. b. If the Antibiotic Timing I is greater than 1440 minutes for any antibiotic doses that have Antibiotic Timing I eleculated, or Antibiotic Timing I calculated, or Antibiotic Timing I calculated. Proceed with antibiotic doses that have 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 Anseisa End Date. Proceed with antibiotic Timing I calculated, or Antibiotic Timing I calculated, or Antibiotic Timing I calculated, or Antibiotic Days I less than or equal to zero. Do not recheek ICD-9-CM Principal Procedure Code or Oral Antibiotic Salar I less than or equal to zero. Do not recheek ICD-9-CM Principal Procedure Code of or Table 5.03, the case will proceed to a Measure Category Principal Procedure Code is not or Table 5.03, the case will proceed to a Measure Category Antibiotic Salar I less Code is not on Table 5.03, confinue processing and check Ansaure Appulation. b. If the ICD-9-CM Principal Procedure Code is not a the saure Category and the Code is not and the saure Category and the Code is not and the case will proceed to a Measure Category and the Code of a Antibiotics and Antibiotics is missing, the case will proceed to a Measure Case will pro			
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 Days I less than or equal to zero. 30 Check Antibiotic Timing I allow antibiotic doses that have antibiotic doses that have than 1440 minutes for any antibiotic dose, continue processing and recheck the ICD 9-CM Principal Procedure Code. Proceed with antibiotic doses, continue processing and recheck the ICD 9-CM Principal Procedure Code. Proceed with antibiotic doses that have Antibiotic Timing I sealculated, 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 doses. a. If the ICD-9-CM Principal Procedure Code only if Antibiotic Timing I is greater than 1440 for any antibiotic doses that have assembly proceed to a Measure Category Assignment of B and will not be in the Measure Population. Sup processing and check Oral Antibiotics. 3. Incheck Code is not not Table 5.03. continue processing and check Code in Neusure Case will proceed to a Measure Case will proceed to a Measure Case will processing and check Code and Antibiotics is missing, the case will proceed to a Measure Case will proceed			
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 I440 minutes for any antibiotic doses, continue processing and recheck the ICD-9-CM Principal Procedure Code. Proceed with antibiotic doses that have Antibiotic Timing I calculated, or Antibiotic Timing I sees 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 of the Antibiotic Days I less than or equal to zero. b. If the Antibiotic Timing I sees than or equal to zero. Determine date of the proceed with antibiotic doses that have Antibiotic Timing I calculated, or Antibiotic Timing I calculated, or 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 Antibiotic Timing I calculated. 5 1. Recheck ICD-9-CM Principal Procedure Code or Oral Antibiotic doses 6 1. 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 Restratified Measures for Overall Rate (SCIP-Inf-2a) for The Dict Omnission. b. If the ICD-9-CM Principal Procedure Code is no Table 5.03, confine processing and check Oral Antibiotics. 3 2. Check Oral Antibiotics is missing, the ease will processing and check Oral Antibiotics as a If Oral Antibiotics is missing, the			
antibiotic doses with Non Unable to Determine date and time. Proceed with antibiotic doses that have Antibiotic Timing I calculated, or Antibiotic Timing I calculated, or Antibiotic Days I less than or equal to zero. 30.Cheek Antibiotic Timing I is greater than 1440 numbers for any antibiotic dose, continue processing and recheck the ICD-9-CM Principal Procedure Code. Proceed with antibiotic doses, continue processing and recheck the ICD-9-CM Principal Procedure Code. Proceed with antibiotic coses 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 Fad Date. Proceed with antibiotic doses that have Antibiotic Timing I calculated, or 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 Antibiotics. 31.Recheck ICD-9-CM Principal Procedure Code only if Antibiotic Timing I is greater than 1440 for any antibiotic doses 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 Overal 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. 3.2.Check Oral Antibiotics is missing, the case will proceed to a Measure			
Determine date and time. Proceed with antibiotic doses that have Antibiotic Days I less than or equal to zero. 30.Check 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 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 and 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 Timing I calculated, or Antibiotic Timing I calculated. Or Antibiotic Timing I calculated or equal to zero. Do not recheck ICD-9-CM Principal Procedure Code only if Antibiotic Timing I is greater than 1440 for any antibiotic doses. 3 I.Recheck 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 not and Easter Code of is on Table 5.03, continue processing and check Oral Antibiotics. 3 2.Check Oral Antibiotics is missing, the case will proceed to a Measure			
with antibiotic Timing I calculated, or Antibiotic Timing I calculated, or Antibiotic Days I less than or equal to zero. 30.Check Antibiotic Timing I is greater than 1440 numbers for any antibiotic dose, continue processing and recheck the ICD-9-CM Principal Procedure Code. Proceed with antibiotic dose, continue processing and recheck the ICD-9-CM Principal Procedure Code. Proceed with antibiotic doses that have Antibiotic Days I less than or equal to zero. b. If the Antibiotic Timing I is less than or equal to zero. b. If the Antibiotic Timing I calculated, or Antibiotic doses with non Unable to Determine date and time, continue processing and proceed to step 33 and check Antibiotic doses that have Antibiotic doses that have 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 calculated. 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 cases 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 Proceedire Code is on Table 5.03, continue processing and check Oral Antibiotics a. If Oral Antibiotics a. If Oral Antibiotics is missing, the case will proceed to a Measure			
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 ocode. 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 capation 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 with an thave 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 or Oral Antibiotics. 31.Recheck ICD-9-CM Principal Procedure Code on Jif Antibiotic Timing I is greater than 1440 for any antibiotic dose on 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 not and the 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 a. If Oral Antibiotics is missing, the case will proceed to a Measure			
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 Code and the ICD-9-CM Principal Procedure Code. Proceed with antibiotic Timing I calculated, or Antibiotic Timing I calculated, or Antibiotic Timing I calculated to sess with non Unable to Days I less than or equal to zero. b. If the Antibiotic Timing I is less than or equal to consume processing and proceed to step 33 and check Anesthesia End Date. Proceed with 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 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. 3.1 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 proceed of B and will not be in the Measure Stop 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. 3.2 Check Oral Antibiotics is missing, the case will proceed to a Measure			
to zero. 30. Check Antibiotic Timing I is greater than 1440 minutes for any antibiotic dose, continue processing and recheck the ICD-9-CM Principal Procedure Code. Proced 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 qual to zero. b. If the Antibiotic Timing I is less than or qual 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 Emd 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 for CMS. 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. a. If Oral Antibiotics is missing, the case will proceed to a Measure			
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 seless 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 Goses with non Unable to Determine date and time, continue processing and proceed to step 33 and check Anesthesia End Date. Proceed with antibiotic Goses 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. 3. I 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 proceed to a Measure Category Assignment of B and will not be in the Measure Stop Coverall 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 Cral Antibiotics is missing, the case will proceed to a Measures for Coverall Rate (SCIP-Inf-2a) for The Joint Commission.			-
a. If the Antibiotic Timing 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 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 late of the continue processing and proceed to step 33 and check Anesthesia End Date. Proceed with antibiotic doses that have Antibiotic Timing I calculated, or Antibiotic Timing I is greater than 1440 for any antibiotic dose with antibiotic Timing I is greater than 1440 for any antibiotic dose and I is greater than 1440 for any antibiotic dose a			
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 captal 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 Timing I calculated, or Antibiotic Timing I calculated, or Antibiotic Timing I calculated. To Antibiotic Timing I calculated. To Antibiotic Timing I calculated. Timing I is greater than 1440 for any antibiotic dose a. If the 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 on the 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 is missing, the case will proceed to a Measure			
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 latd 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 12 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 is missing, the case will proceed to a Measure			
recheck the ICD-9-CM Principal Procedure Code. Proceed with antibiotic doses that have Antibiotic Days I less than or equal to zero. b. If the 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 see that the 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 Days I less than or equal to zero. Do not recheck ICD-9-CM Principal Procedure Code only if Antibiotic Days I less than or equal to zero. Do not recheck ICD-9-CM Principal Procedure Code only if Antibiotic Days 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 Sopulation. Stop processing for CMS. Proceed to sep 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 is missing, the case will proceed to a Measure			•
recheck the ICD-9-CM Principal Procedure Code. Proceed with antibiotic doses that have Antibiotic Days I less than or equal to zero. b. If the 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 J440 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 Days I less than or antibiotic doses a. If the ICD-9-CM Principal Procedure Code only if Antibiotic Days 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 Spotlation. 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 is missing, the case will proceed to a Measure			
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			recheck the ICD-9-CM Principal
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			
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 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 is missing, the case will proceed to a Measure			antibiotic doses that have Antibiotic
Days Tess 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			
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. 3.1.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. 3.2.Check Oral Antibiotics a. If Oral Antibiotics is missing, the case will proceed to a Measure			
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			
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 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 on Ji 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			
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 is missing, the case will proceed to a Measure			
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 is missing, the case will proceed to a Measure			
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			
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			
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 is missing, the case will proceed to a Measure			
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			
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			
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			
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			
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			
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			
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			-
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			
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			
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			
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 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			· ·
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			
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 B and will
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			
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			-
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			
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			
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			· ·
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			
continue processing and check Oral Antibiotics. 32.Check Oral Antibiotics a. If Oral Antibiotics is missing, the case will proceed to a Measure			
Antibiotics. 32.Check Oral Antibiotics a. If Oral Antibiotics is missing, the case will proceed to a Measure			· ·
32.Check Oral Antibiotics a. If Oral Antibiotics is missing, the case will proceed to a Measure			
a. If Oral Antibiotics is missing, the case will proceed to a Measure			
case will proceed to a Measure			
Category Assignment of X and will			
			Category Assignment of X and will

	AL QUALITY FORUM	
Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
for cardiac surgery patients	second generation cephalosporin	surgical patients
		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-Inf-2a) for The
		Joint Commission.
		c. If the Anesthesia End Date equals
		a Non Unable to Determine Value,
		continue processing and proceed to
		the Antibiotic Days II calculation.
		34.Calculate Antibiotic Days II.
		Antibiotic Days II, in days, is equal
		to the Antibiotic Administration Date
		minus the Anesthesia End Date.
		35.Check Antibiotic Days II
		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
		Administration Time, or step 39
		Antibiotic Timing II.
		b. If the Antibiotic Days II is greater
		than zero for at least one dose of any
		antibiotic, continue processing and
		proceed to Initialize the Abxday flag.
1		proceed to initialize the rioxady mag.

	AL QUALITY FORUM	
Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
for cardiac surgery patients	second generation cephalosporin	surgical patients
		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
		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 Time is
		equal to Unable to Determine,
		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 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 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.
•		•

		F. L. W. M. M. M. M. C. L. C.	M-1-4
	Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
	Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
	for cardiac surgery patients	second generation cephalosporin	surgical patients
			Proceed only with doses where the
			Abxflag is equal to Yes. Do not
			check Antibiotic Timing II.
			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. 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. 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.
L	•	•	

		AL QUALITY FORUM	1
	Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
	Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
	for cardiac surgery patients	second generation cephalosporin	surgical patients
			41.Recheck Antibiotic
			Administration Route. For each case,
			proceed ONLY with those antibiotic
			doses that satisfy at least one of the
			following conditions: Antibiotic
			Timing II is less than or equal to
			1440 or Abxday flag is equal to Yes.
			a. If the Antibiotic Administration
			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
			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 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 or
			5.07, continue processing and
			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 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
<u> </u>			, , , , , , , , , , , , , , , , , , , ,

	AL QUALITY FORUM	
Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
for cardiac surgery patients	second generation cephalosporin	surgical patients
		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 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 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 Principal
		Procedure Code is on Tables 5.04 or
		5.05 or if Antibiotic Name is on
		Table 3.2.
		b. If the ICD-9-CM Principal
		Procedure Code is on Tables 5.04 or
		5.05, continue processing and
		proceed to recheck 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 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.
		proceed to reclicek Antibiotic Ivalic.

	AL QUALITY FORUM	
Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
for cardiac surgery patients	second generation cephalosporin	surgical patients
		46.Recheck Antibiotic Name
		a. If the 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
		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, 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-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,
	•	

	AL QUALITY FORUM	
Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
for cardiac surgery patients	second generation cephalosporin	surgical patients
		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) for
		The Joint Commission.
		c. If Antibiotic Allergy equals No,
		continue processing and proceed to
		recheck Antibiotic Name.
		52.Recheck Antibiotic 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.

	AL QUALITY FORUM	
Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
for cardiac surgery patients	second generation cephalosporin	surgical patients
		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
		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 Rate (SCIP-Inf-2a) for
		The Joint Commission.
		c. If Antibiotic Allergy equals Yes,
		continue processing and proceed to
		recheck Antibiotic Name.
 		55.Recheck Antibiotic Name

Maintenance Measure 0126. Selection of antibiotic prophylaxis for cardiae surgery patients Endorsed Measure 2688: Selection of surgical patients. Endorsed Measure 1826. Endorse 1826. Endorse 1826. Endorsed Measure 1826. Endorse		AL QUALITY FORUM	
second generation cephalosporin a. If at least one of the Antibiotic Names is on Table 3.0, continue processing and recheck Antibiotic Name. If at least one of the Antibiotic Names is on Table 3.0, continue processing and recheck Antibiotic Names is on Table 3.0, and the state of the Antibiotic Names is on Table 3.1 or 3.12 or 2.7, the case will proceed to a Measure Category Assignment of E and will be in the Name of CMS, Proceed to the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. 2.If none of the Antibiotic Names are on Tables 2.1 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. c. If at least one of the Antibiotic Names are on Table 3.6, continue processing and recheck Antibiotic Name. If at least one of the Antibiotic Name. Lift at least one of the Antibiotic Names is on Table 3.6, continue processing and recheck Antibiotic Name. Lift at least one of the Antibiotic Names is on Table 3.1 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 2.1 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 a Measure Category Assignment of D and will be in the Measure Population. Stop processing for CMS, Proceed to a Measure Category Assignment of D and will be in the measure population. Stop processing for CMS, Proceed to a Measure Category Assignment of D and will be in the measure population. Stop processing for CMS, Proceed to a Measure Category Assignment of D and will be in the measure population. Stop processing for CMS, Proceed to a Measure Category Assignment of D and will be in the measure population. Stop processing for CMS, Proceed to Stratified Meas	Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
a. If at least one of the Antibiotic Names is no Table 3, continue processing and recheck Antibiotic Name. 1. If at least one of the Antibiotic Names is no 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 Measure Category Assignment of E and will be in the Numerator Occurrence of the Antibiotic Names are on Tables 2.11 or 3.12 or 2.7, continue processing and recheck Antibiotic Names are on Tables 2.10 and 3.12 or 2.7, continue processing and recheck Antibiotic Name as in a far a least one of the Antibiotic Name as or on Tables 2.10 or 3.12, the case will proceed to the Antibiotic Name as in a far a least one of the Antibiotic Name as in a far a least one of the Antibiotic Name and the case of the Antibiotic Name and 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 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 stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. b. If none of the Antibiotic Names are on Tables 2.10 or Mills of the Measure Category Assignment of Tables and will be in the Measure Category and will be in the Measure Category of the Category Assignment of Tables. 1. If Tables are the case will proceed to stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission only, continue processing for CMS. Proceed to Stratified Measures. Note: Initialize the Measure Category Assignment of Tables.			
Names is on Table 3.9, continue processing and recheck Antibiotic Name. If a 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 eleck the Stratified Measures for Overall Rate (SCIP-In-2a) for The Joint Commission. 2. If none of the Antibiotic Names are on Table 3.21 or 3.12 or 2.7, continue processing and recheck Antibiotic Name. b. If none of the Antibiotic Names are on Table 3.21 or 3.7, continue processing and recheck Antibiotic Name. con Table 3.2, outsinue processing and recheck Antibiotic Name. a. If aleast one of the Antibiotic Name. 5.6 Recheck Antibiotic Name. a. If aleast one of the Antibiotic Names is on Table 3.2, outsinue processing and recheck Antibiotic Name. I. If aleast one of the Antibiotic Names is on Table 3.2, outsinue processing and recheck Antibiotic Name. 1. If aleast one of the Antibiotic Names is on Table 5.2.1 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-In-2a) for The Joint Commission. 2. If none of the Antibiotic Names are on Table 5.2.1 or 3.12, the case will proceed to a Measure Topolyation on the Measure Population. Stop processing for CMS. Proceed of Stratified Measures for Overall Rate (SCIP-In-2a) for The Joint Commission. J. If one of the Antibiotic Names are on Table 5.0 and will be in the Measure Population. Stop processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-In-2a) for The Joint Commission. 5.7 For The Joint Commission only, continue processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-In-2a) for The Joint Commission only, continue processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-In-2a) for The Joint Commission only, continue processing for CMS. Proceed to Stratified Measures Topolyman	for cardiac surgery patients	second generation cephalosporin	
processing and recheck 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 (SCLP-In-12a) for The Joint Commission. 2.11 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. c. The none of the Antibiotic Names are on Table 3.9, continue processing and recheck Antibiotic Name. a. If at least one of the Antibiotic Names are on Table 3.0, continue processing and recheck Antibiotic Names is on Table 3.6, continue processing and recheck Antibiotic Names is on Table 3.6, continue processing and recheck Antibiotic Names is on Table 3.6, continue processing on the characteristic Names is on Table 3.11 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-In-12a) for The Joint Commission. 2.1f none of the Antibiotic Names are on Tables 2.11 or 3.12, the case will proceed to a Measure Stop Joint Palorit Commission. 3.1f none of the Antibiotic Names are on Tables 2.11 or 3.12, the case will proceed to a Measure Stop Joint Palorit Commission. 4.1f none of the Antibiotic Names are on Tables 2.11 or 3.12, the case will proceed to a Measure Stop Joint Palorit Commission. 5.1f none of the Antibiotic Names are on Tables 2.11 or 3.12, the case will proceed to a Measure Stop Joint Palorit Commission. 6.1f none of the Antibiotic Names are on Tables 2.11 or 3.12, the case will proceed to a Measure Stop Joint Palorit Commission. 7.f or the Joint Commission only, continue processing for the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission only, continue processing for the Stratified Measures. Note: Initialize the Me			
Name. If far 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-In-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 Tables 3.21 or 3.2, continue processing and recheck Antibiotic Name. c. If a least one of the Antibiotic Name. a for the Antibiotic Name. a. If at least one of the Antibiotic Name are on Table 3.2, continue processing and recheck Antibiotic Name. If all least one of the Antibiotic Name is not Table 3.2, to a continue processing and recheck Antibiotic Name. If all least one of the Antibiotic Name is not 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-In-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 E and will be in 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 Measures for Overall Rate (SCIP-In-2a) for The Joint Commission. J. 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-In-2a) for The Joint Commission. J. If none of the Antibiotic Names are on Tables 3.61, as a second processing for CMS, Proceed to Stratified Measures for Overall Rate (SCIP-In-1a) and will be in the Measure Category Assignment for Dand will be in the Measure Category of Stratified Measures. Note: Initialize the Measure Category in the Measure			
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 Tables 3.9, continue processing and recheck Antibiotic Name. b. If none of the Antibiotic Names are on Table 3.9, continue processing and recheck Antibiotic Name. 5.6 Recheck Antibiotic Name. a. If at least one of the Antibiotic Names is on Table 3.9, continue processing and recheck Antibiotic Names is on Table 3.6 a, continue processing and recheck 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 Correla International 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 Tables 3.6 a, 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 3.6 a, 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. 5.7 For The Joint Commission. 5.7 For The Joint Commission Only, continue processing for the Stratified Measures. Note: Intridiate the Measures Category Assignme			processing and recheck 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. 2.1f 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 3.0, continue processing and recheck Antibiotic Name. c. If a continue processing and recheck Antibiotic Name. 5.6 Recheck Antibiotic Name. 5.6 Recheck Antibiotic Name. 1.ff at least one of the Antibiotic Names is on Table 3.6, continue processing and recheck Antibiotic Name. 1.ff at least one of the Antibiotic Names is on Table 3.6, continue processing and recheck Antibiotic Names. 2.tf and the state of the Antibiotic Names is on Table 3.11 or 3.12, the case will proceed to a Measure Category Assignment of F and will be in the Numers for Overall Rate (SCIP-Inf-2a) for The Joint Commission. 2.tf 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 Numers for Overall Rate (SCIP-Inf-2a) for The Joint Commission. 2.tf 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 in 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. 5.7.For The Joint Commission Only, continue processing for the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission Only, continue processing for the Stratified Measures Note: Initiatize the Measure Category Assignment for			Name.
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. 2.1f 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. 5.6 Recheck Antibiotic Name. 5.6 Recheck Antibiotic Name a. If at least one of the Antibiotic Name a. If at least one of the Antibiotic Name. 1.f at least one of the Antibiotic Name processing and recheck Antibiotic Name. 1.f at least one of the Antibiotic Name is on Table 3.6, continue processing and recheck Antibiotic Name. 1.f at least one of the Antibiotic Name. 1.f 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. 2.1f 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 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. 5. For The Joint Commission Only, continue processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission Only, continue processing for the Stratified Measures Note: Institution Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission Only, continue processing for the Stratified Measures Note: Institution Measures Note:			1.If at least one of the Antibiotic
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. 2.1f 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 Tables 2.0 continue processing and recheck Antibiotic Name. c. If none of the Antibiotic Name are on Tables 2.11 or 3.12, continue processing and recheck Antibiotic Name. So Recheck Antibiotic Name. a. If at least one of the Antibiotic Names is on Table 2.11 or 3.12, the case will proceed to a Measure Processing and recheck Antibiotic Name. Liff at least one of the Antibiotic Names is on Table 2.11 or 3.12, the case will proceed to a Measure Category Assignment of E and will be in the Numers for Overall Rate (SCIP-Inf-2a) for The Joint Commission. 2.1f 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 Numers for Overall Rate (SCIP-Inf-2a) for The Joint Commission. 2.1f 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 Tables 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. 5.For The Joint Commission Only, continue processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission Only, continue processing for the Stratified Measures. Note: Initiatize the Measure Category Assignment for			Names is on Tables 2.11 or 3.12 or
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. 2.1f 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 Name. b. If none of the Antibiotic Name. c. If aleast one of the Antibiotic Name are on Table 3.49, continue processing and recheck Antibiotic Name. So Recheck Antibiotic Name. a. If at least one of the Antibiotic Name are on Table 3.6a, continue processing and recheck Antibiotic Name. If at least one of the Antibiotic Names is on Table 3.6a, continue processing and recheck Antibiotic Names. Lif at least one of the Antibiotic Names is on Table 3.6a, continue processing and recheck Antibiotic Names. Category Assignment of E and will be in the Numerator Population. Stop processing for CMS. Proceed to Stratified Measure Category Assignment of E and will be in the Numerator Population. Stop processing for CMS. Proceed to Stratified 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. 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 Only, continue processing for the Stratified Measures Note: Initiatize the Measure Category Assignment for			2.7, the case will proceed to a
and will be in the Numerator Population. Stop processing for CMS. Proceed to step 57 and check the Stratified Measures for Overail 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. 5.6 Recheck Antibiotic Name a. If at least one of the Antibiotic Names is on Table 3.6, continue processing and recheck Antibiotic Names. I. 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 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 Stratified Measures for Overall Rate (SCIP-Inf- 2a) for The Joint Commission. 5.7 For The Joint Commission only, continue processing for the Stratified Measures. Note: Intitialize the Measures. Note: Intitia			
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. b. If none of the Antibiotic Name. 56. Recheck Antibiotic Name. 56. Recheck Antibiotic Name. 1. If a least one of the Antibiotic Names is on Table 3.6a, continue processing and recheck Antibiotic Names is on Table 3.7a, continue processing and recheck Antibiotic Names is on Table 3.7a, continue processing and recheck Antibiotic Names is on Table 3.7a, continue processing in the processing 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 Tables 5.6a, 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 Measures.			
CMS, Proceed to step 57 and check the Startified 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. 5.6 Recheck Antibiotic Name a. If at least one of the Antibiotic Name are on Table 3.9, continue processing and recheck Antibiotic Name. If at least one of the Antibiotic Name are on Table 3.0, continue processing and recheck Antibiotic Name. If at least one of the Antibiotic Names is on Tables 2.6, continue processing and recheck Antibiotic Name. 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. 5.7 For The Joint Commission. 5.7 For The Joint Commission Only, comming processing for CMS. Proceed for Stratified Measures. Note: Initialize the Measure Category Assignment for Measures. Note: Initialize the Measures.			Population. Stop processing for
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 Name are on Table 3.6, continue processing and recheck Antibiotic Name. b. If none of the Antibiotic Name. a. If at least one of the Antibiotic Name are on Table 3.6a, continue processing and recheck Antibiotic Name. If at least one of the Antibiotic Names is on Table 3.1a, or antibiotic Name in the Name of the Antibiotic Name in the Name 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. 5. For The Joint Commission.			
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. I. If none of the Antibiotic Names are on Table 3.9, continue processing and recheck Antibiotic Name. 5.Recheck Antibiotic Name. 5.Recheck Antibiotic Name. a. If at least one of the Antibiotic Name. a. If at least one of the Antibiotic Name. I. If at least one of the Antibiotic Names are on Table 3.11 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. 5. If none of the Antibiotic Names are on Table 3.11 proceed to a Measure Category Assignment of D and will be in the Measure Stop Processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. 5. 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 propulation. Stop processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. 5. 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 propulation. Stop processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. 5. For The Joint Commission Only, continue processing for the Stratified Measures. Not: Initialize the Measure Category Assignment for Measure Stop Stagnment for M			
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. 56.Recheck Antibiotic Name. 56.Recheck Antibiotic Name is on Table 3.6a, continue processing and recheck Antibiotic Names is on Table 3.6a, continue processing and recheck Antibiotic Names 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 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 for Open processing for CMS. Proceed to a Measure Category Assignment of D and will be in the Measure 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. 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. 5.7.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. 56.Recheck Antibiotic Name a. If at least one of the Antibiotic Names is on Table 3.6, continue processing and recheck Antibiotic Name. Life 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 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. 3.If none of the Antibiotic Names are on Tables 2.11 or 3.12, the case will 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. 5. 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. 5. If none of the Antibiotic Names are on Table 3.6a, the case will proceed to a Measure Category Assignment for D and will be in the measure population. Stop processing for the Stratified Measures. Note: Initialize the Measures. Note: Initialize the Measures. Note: Initialize the Measures. Note: Initialize the Measures.			
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 Names is on Table 3.6a, continue processing and recheck Antibiotic Name. 1.1f 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. 2.1f 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 Proceed to Stratified Measures Foroverall Rate (SCIP-Inf-2a) for The Joint Commission. b. If none of the Antibiotic Names are on Tables 3.6a, the case will proceed to a Measure Category Assignment of D and will be in the 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 only, continue processing for the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission only, continue processing for the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission only, continue processing for the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission only, continue processing for the Stratified Measures. Note: Initialize the Measures Category Assignment for			
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. 56.Recheck Antibiotic Name a. If at least one of the Antibiotic Names is on Table 3.6a, continue processing and recheck Antibiotic Names is on Table 3.6a, continue processing and recheck Antibiotic Name. 1.If at least one of the Antibiotic Names is on Table 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. 5.7-For The Joint Commission only, continue processing for the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. 5.7-For The Joint Commission only, continue processing for the Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission only, continue processing for the Stratified Measures. Note: Initialize the Measure Category Assignment for Measure Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission only, continue processing for the Stratified Measures. Note: Initialize Measures No			
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 Names is on Table 3.6a, continue processing and recheck Antibiotic Names. 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 Sopulation. Stop processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. 5. For The Joint Commission only, continue processing for CMS. Proceed to Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission only, continue processing for the Stratified Measures. Note: Initialize the Measure States with Measure States and			
b. If none of the Antibiotic Names are on Table 3.9, continue processing and recheck Antibiotic Name. 5.6.Recheck Antibiotic Name. a. If at least one of the Antibiotic Names is on Table 3.6a, continue processing and recheck Antibiotic Names. 1. If at least one of the Antibiotic Names. 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. 5.7.For The Joint Commission Only, continue processing for the Stratified Measures Note: Initialize the Measure Category Assignment for Measure Category Assignm			
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 Names. If at least one of the Antibiotic Name. If at least one of the Antibiotic Name. 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 CMS. Proceed to Stratified Measures for Overall Rate (SCIP-Inf-2a) for The Joint Commission. S7. For The Joint Commission Only, continue processing for the Stratified Measures. Note: Initialize the Measure Category Assignment for			
and recheck Antibiotic Name a. If at least one of the Antibiotic Names is on Table 3.6a, continue processing and recheck Antibiotic Names. 1.If at least one of the Antibiotic Names. 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 Measures. Note: Initialize the			
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. 5. The Tore 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 only, continue processing for the Stratified Measures. Note: Initialize the Measures. Note: Initialize the			
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. 5.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 Only, continue processing for the Stratified Measures. Note: Initialize the Measure Category Assignment for			
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.			
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. Note: Initialize the			
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. Note: Initialize the			
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. 57.For The Joint Commission Only, continue processing for the Stratified Measures. Note: Initialize the Measure Category Assignment for			
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. 57.For The Joint Commission Only, continue processing for the Stratified Measures. Note: Initialize the Measure Category Assignment for			
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. 57. For The Joint Commission Only, continue processing for the Stratified Measures. Note: Initialize the Measures. Note: Initialize the			
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. 57.For The Joint Commission Only, continue processing for the Stratified Measures. Note: Initialize the Measure Category Assignment for			
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. 57. For The Joint Commission Only, continue processing for the Stratified Measures. Note: Initialize the Measure Category Assignment for			-
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 Measuress 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			
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. 57. For The Joint Commission Only, continue processing for the Stratified Measures. Note: Initialize the Measure Category Assignment for			
(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. 57.For The Joint Commission Only, continue processing for the Stratified Measures. Note: Initialize the Measure Category Assignment for			
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			
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			
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			
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			
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			· ·
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			
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			
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			
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			
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			
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			
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			
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			
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			
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			_
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			
2a) for The Joint Commission. 57.For The Joint Commission Only, continue processing for the Stratified Measures. Note: Initialize the Measure Category Assignment for			
57.For The Joint Commission Only, continue processing for the Stratified Measures. Note: Initialize the Measure Category Assignment for			· ·
continue processing for the Stratified Measures. Note: Initialize the Measure Category Assignment for			
Measures. Note: Initialize the Measure Category Assignment for			
Measure Category Assignment for			
each strata measure (b-g) to equal B,			
			each strata measure (b-g) to equal B,

Maintenance Measure 0126: Selection of antibiotic prophylaxis for cardiac surgery patients for cardiac surgery patients second generation cephalosporin according to the description of the surgery patients of the description of the Measure Population. Do not change the Measure Category Assignment to the coverall rate (SCIP-Inf-2a). The rest of the algorithm will reset the appropriate Measure Category Assignment to the overall rate (SCIP-Inf-2a) and Measure Category Assignment to 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-2b) to cqual B, not in the Measure Category Assignment is equal to B or X, set the Measure Category Assignment is equal to B or X, set the Measure Category Assignment is cqual to D or E, continue procedure Code. Specifications Manual for National Hospital Inpatient Quality Measures Discharges 10-01-10 (40[10) through 0.3-1-11 (10[11) SCIP-Jn-2-3) or Sp. Check ICD-9-CM Principal Procedure Code is on Table 5.01, for Stratifical Measure SCIP-Inf-2b, set the Measure Category Assignment for measure SCIP-Inf-2b, set the Measure Category Assignment for measure SCIP-Inf-2b. So the Measure Category Assignment for measure SCIP-Inf-2b. So to Measure SCIP-Inf		AL QUALITY FORUM	1
for cardiac surgery patients second generation cephalosporin not in the Measure Population. Do not change the Measure Category Assignment that was already accludated for the overall rate (SCIP-Inf-2a). The rest of the algorithm will rest the adjornthm to be equal to the overall rate 's (SCIP-Inf-2a). Measure Category Assignment to be equal to the overall Rate Category Assignment a. If the Overall Rate Category Assignment for the strata measures (SCIP-Inf-2b) through SCIP-Inf-2b through SCIP-Inf-2b) to equal B, not in the Measure Category Assignment for the strata measures (SCIP-Inf-2b) 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 3-31-11 (1q11) SCIP-Inf-23 0 359. Check 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, set the Measure Category Assignment for measure SCIP-Inf-2b. Scop 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 or 5.	Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
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. S8 Check Overall Rate Category Assignment a. If the Overall Rate Category Assignment is equal to B or X, set the Assignment is equal to B or X, set the Set of the Strate measures (SCIP-Inf-2a) through Set of the Overall Rate Category Assignment for the strate measures (SCIP-Inf-2b) through Set of through Set of the Strate measures (SCIP-Inf-2b) 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 (4Q11) SIQIP-Inf-2-30 SICIN-CAN (ICD-9-CM Principal Procedure Code a. If the 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 on Table 5.01, for Stratified Measure SCIP-Inf-2b, set the Measure Category Assignment for measure SCIP-Inf-2b. 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 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 is on Table 5.02 or 5.03 or 5.06 or 5.07 or 5.08, continue processing and recheck the If the ICD-9-CM Principal Procedure Code is on Table 5.02 or 5.03 or 5.06 or 5.07 or 5.08, continue processing and recheck the If the ICD-9-CM Principal Procedure Code is on Table 5.02 or 5.03 or 5.06 or 5.07 or 5.08, continue processing and recheck the If the ICD-9-CM Principal Procedure Code is on Table 5.02 or 5.03 or 5.06 or 5.07 or 5.08			
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 (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 stratu measures (SCIP-Inf-2b) through SCIP-Inf-2b) 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 ICD9-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 ICD9-CM Principal Procedure Code a. If the ICD-9-CM Principal Procedure Code a. If the ICD-9-CM Principal Procedure Code a. If the ICD-9-CM Principal Procedure Code b. Section of the Information of the Measure Category Assignment for measure SCIP-Inf-2b, so 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 Principal Procedure Code. 60.Recheck ICD-9-CM Principal	for cardiac surgery patients	second generation cephalosporin	
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 to be equal to the overall rate's (SCIP-InF-2a) Measure Category Assignment a. If the 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-2b) 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, set the Measure Category Assignment for measure SCIP-InF-2b, set the Measure Category Assignment for measure SCIP-InF-2b. To equal the Measure Category Assignment for measure SCIP-InF-2b. To equal the Measure Category Assignment for measure SCIP-InF-2b. Set the Measure Category Assignment for measure SCIP-InF-2b. Set opportunity of the Info Info Info Info Info Info Info Info			
calculated for the overall rate (SCIP-Inf-2a). The rest of the algorithm will reset the appropriate Measure Category Assignment to be cqual to the overall rate (s SCIP-Inf-2a) Measure Category Assignment. Se.Check Overall Rate Category Assignment. Se.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-2b) to equal B, not in the Measure Population. Stop processing. b. If the Overall Rate Category Assignment is cqual to D or E, continue processing and check the ICD9-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 S9.Check ICD9-CM Principal Procedure Code a. If the ICD9-CM Principal Procedure Code a. If the ICD9-CM Principal Procedure Code a. If the ICD9-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-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b. Scipp processing. b. If the ICD9-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 ICD9-CM Principal Procedure Code is on Table 5.02 or 5.03 or 5.06 or 5.07 or 5.08 continue processing and recheck the If the ICD9-CM Principal Procedure Code. 60.Recheck ICD9-CM Principal Principal Procedure Code. 60.Recheck ICD9-CM Principal Principal Procedure Code. 60.Recheck ICD9-CM Principal Procedure Code. 60.Recheck ICD9-CMP Principal Procedure Code. 60.Reche			
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. SR.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-2b) 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 In-Inf-10 (4Q10) through 03-31-11 (1Q11) SCIP-Inf-2-30 Sp.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 on Table 5.01, for Stratified Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure CATEGORY Assignment for measure SCIP-Inf-2b to equal the Measure SCIP-Inf-2b to equal the Measure CATEGORY Assignment for measure SCIP-Inf-2b to equal the Measure CATEGORY Assignment for measure SCIP-Inf-			
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-2b) 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 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-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b, sor 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			· ·
Category Assignment to be equal to the overall rate's (SCIP-Inf-2a) Measure Category Assignment. 88. Check Overall Rate Category Assignment a. If the 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-2b. Stop processing. b. If the ICD-9-CM Principal Procedure Code is on Table 5.00 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.04 Principal Procedure Code is on Table 5.02 or 7.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.04 or 5.05 or 5.06 or 5.07 or 5.03 or 5.04 or 5.05 or 5.05 or 5.05 or			
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-2b) 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 Impatient 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 5.07 or 5.08, continue processing and recheck the If the ICD-9-CM Principal Procedure Code. 60.Recheck ICD-9-CM Principal			
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-2b) 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-230 59. 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 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 5.04 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. Recheek ICD-9-CM Principal			
S8.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) 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 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			
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-2b. 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			
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			
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 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 SCIP-Inf-2b to equal the Measure SCIP-Inf-2b. 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.			
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 a. If the ICD-9-CM Principal Procedure Code to 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 is on Table 5.02 or 5.08, continue processing and recheck the If the ICD-9-CM Principal			
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-2b. Scip 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 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			
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 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			
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			
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			through SCIP-Inf-2h) to equal B, not
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			in the Measure Population. Stop
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-2b. 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 Principal Procedure Code. 60.Recheck ICD-9-CM Principal			
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 SCIP-Inf-2b to equal 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			
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			
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 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			
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			
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			
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 Principal Procedure Code. 60.Recheck ICD-9-CM Principal			
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			
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 5.01, for Stratified Measure SCIP-Inf-2b, set the Measure Category Assignment for measure SCIP-Inf-2b to equal the 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			
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 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			
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			
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			
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			
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			
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			
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			
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 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			
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			
or 5.08, continue processing and recheck the If the ICD-9-CM Principal Procedure Code. 60.Recheck ICD-9-CM Principal			
recheck the If the ICD-9-CM Principal Procedure Code. 60.Recheck ICD-9-CM Principal			
Principal Procedure Code. 60.Recheck ICD-9-CM Principal			
60.Recheck ICD-9-CM Principal			
<u> </u>			
Procedure Code			1
a. If the ICD-9-CM Principal			
Procedure Code is on Table 5.02, for			
Stratified Measure SCIP-Inf-2c, set			1
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,			5.04 or 5.05 or 5.06 or 5.07 or 5.08,

	AL QUALITY FORUM	
Maintenance Measure 0126:	Endorsed Measure 0268: Selection	Maintenance Measure 0528:
Selection of antibiotic prophylaxis	of prophylactic antibiotic: First or	Prophylactic antibiotic selection for
for cardiac surgery patients	second generation cephalosporin	surgical patients
		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 Category

Maintenance Measure 0126. Selection of prophylaxis for cardiae surgery patients			AL QUALITITORUM	35 1 4 35 0700
Part				
Assignment for measure SCIP-Inf-2g to equal the Measure Category Assignment for measure SCIP-Inf-2a. Stop processing. 2a. Stop processing. b. If the ICD-9-CM Principal Procedure Code is on Table 5.08, for Stratified Measure Category Assignment for measure SCIP-Inf-2a, set the Measure Category Assignment for measure SCIP-Inf-2b, to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b to equal the Measure Category Assignment for measure SCIP-Inf-2b, set the Measure Category Assignment for me				
to equal the Measure Category Assignment for measure SCIP-Inf-2a. Stop processing. b. If the ICID-2-CM Principal Procedure Code is on Table 5.08, for Stratified Measure SCIP-Inf-2b. set the Measure Category Assignment for measure ScIP-Inf-2b. set the Measure Category Assignmen		for cardiac surgery patients	second generation cephalosporin	
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, set the Measure Category Assignment for measure SCIP-Inf-2h. Stop processing. 2a.22. Describe the method for discriminating performance (E.g., significance testing) Benchmarks are established using the ABC methodology absed on the actual performance of the top facilities. ABC benchmarks identify superior performance and encourage poorer performer improve. It is data-driven, peer-group performance feedback. Achievable Benchmarks of care This developed at the University of Alabama at Birmingham for AHRQ. This methodology identifies benchmark care level already achieved by "best-in-class" care givers. Development are level already achieved by "best-in-class" care the continuous performance feedback. Achievable Benchmarks and to be continuous to the continuous developed at the University of Alabama at Birmingham for AHRQ. This methodology identifies benchmark care apreviates that are realistic and achievable may help to motivate providers that are having difficulty improving care. The benchmark series and exceeds average providers that are having difficulty improviders with the performance but care to the contribute to the chambark but also ensures that all superior providers discussed that are having difficulty improviders with high performance but care the contribution of the chambark but also ensures that providers with high performance but care the contribution of the chambark but also ensures that providers with high performance but care the contribution of the chambark but also ensures that all superior providers data claims, lab data, paper medical information can be found at high performance but care and the contribution of the chambark but also ensures that all superior providers with high performance but care and the contribution of the chambark but also ensures that all superior providers with hi				
Part				
D. I. 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-2h io equal the Measure Category Assignment for measure SCIP-Inf-2h io equal the Measure Category Assignment for measure SCIP-Inf-2h io equal the Measure Category Assignment for measure SCIP-Inf-2h io equal the Measure Category Assignment for measure SCIP-Inf-2h io equal the Measure Category Assignment for measure SCIP-Inf-2h io equal the Measure Category Assignment for measure SCIP-Inf-2h io equal the Measure Category Assignment for measure SCIP-Inf-2h io equal the Measure Category Assignment for measure SCIP-Inf-2h io equal the Measure Category Assignment for measure SCIP-Inf-2h io equal the Measure category Assignment for measure SCIP-Inf-2h io equal the Measure category Assignment for measure SCIP-Inf-2h io equal the Measure category Assignment for measure SCIP-Inf-2h io equal the Measure category Assignment for measure SCIP-Inf-2h io equal the Measure category Assignment for measure SCIP-Inf-2h io equal the Measure category Assignment for measure SCIP-Inf-2h io equal the Measure category Assignment for measure SCIP-Inf-2h io equal the Measure category Assignment for measure SCIP-Inf-2h io equal the Measure category Assignment for measure SCIP-Inf-2h io equal the Measure category Assignment for measure SCIP-Inf-2h io equal the Measure category Assignment for measure ScIP-Inf-2h io equal the Measure category Assignment for measure ScIP-Inf-2h io equal the Measure category Assignment for measure ScIP-Inf-2h io equal the Measure category Assignment for measure ScIP-Inf-2h io equal the Measure category Assignment for measure ScIP-Inf-2h io equal the Measure category Assignment for measure ScIP-Inf-2h io equal the Measure category and the Measu				
Procedure Code is on Table 5.08, for Stratified Measure SCIP-Inf-2h, set the Measure Category Assignment for measure SCIP-Inf-2h. Stop up processing. 2.2.2 Describe the method for discriminating performance (E.g., significance testing) Benchmarks established using the ABC methodology, based on the actual performance of the top facilities. ABC benchmarks identify superior performence 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 identifies benchmark care levels already achieved by "level-in-class" care givers. Development of benchmarks that are realized and achievable may help to motivate providers that are having difficulty improving care. The benchmarks represent a measureable level of excellent that always exceeds average performance. It ensures that all superior providers contribute to the benchmark but also ensures that providers with high performance but always exceeds average performance. It ensures that all superior providers contribute to the benchmark but also ensures that providers with high performance but always exceeds average performance. It ensures that all superior providers contribute to the benchmark but also ensures that providers with high performance but always exceeds average performance. It ensures that all superior providers of cases do not unduly influence benchmark but also ensures that providers with high performance but always exceeds average performance. It ensures that all superior providers of cases do not unduly influence benchmark but also ensures that providers with high performance but always exceeds average performance. It ensures that all superior providers of cases do not unduly influence benchmark but also ensures that providers with high performance but always and the providers of the providers with high performance but always and the provid				2a. Stop processing.
Stratifice Measure Category Assignment for measure SCIP-Inf-2h, set the Measure Category Assignment for measure SCIP-Inf-2a. Stop processing. 2a.22. Describe the method for discriminating performance (E.g., significance testing) Benchmarks are established using the ABC methodogy, based on the actual performance of the top facilities. ABC benchmarks identify superior performance and encourage poorer performance of the top facilities. ABC methodology identifies benchmark acre levels already achieved by "hest-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 and achievable may help to motivate providers that are having difficulty improving care. The benchmarks represent that also ensures that puser on providers contribute to the benchmark but also ensures that puser on providers with high performance but very low numbers of cases do not unduly influence benchmark layer of providers with high performance but very low numbers of cases do not unduly influence benchmark layer of providers with high performance but very low numbers of cases do not unduly influence benchmark layer of providers with high performance but very low numbers of cases do not unduly influence benchmark layer of providers with high performance but very low numbers of cases do not unduly influence benchmark layer of providers with high performance but very low numbers of cases do not unduly influence benchmark layer of providers with high performance but very low numbers of cases do not unduly influence benchmark layer of providers with high performance but very low numbers of cases do not unduly influence benchmark layer of providers with high performance but very low numbers of cases do				b. If the ICD-9-CM Principal
the Measure Category Assignment for measure SCIP-Inf-2a. Stop processing. 2a.22. Describe the method for discriminating performance (E.g., significance testing) Benchmarks restablished using the ABC methodology, based on the actual performance of the top facilities. ABC benchmarks identify superior performance and encourage poorer performance of the top facilities. ABC benchmarks identify superior performance and encourage poorer performance to improve. It is distanctive, peer-group performance (Eedback. Achievable Benchmarks of Care TM: developed Benchmarks of Care TM: developed a Benchmarks of Care TM: developed by Post-in-class' care givers. Development of benchmarks are levels 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 an enasurable level of excellence that always exceeds average performance. It consures that are having difficulty improving care. The benchmarks represent an enasurable level of excellence that always exceeds average performance. It consures that are having difficulty improviders with high performance but very low numbers of cases do not unduly influence benchmark levels. Additional information can be found at http://main.unab.edu/show.usp?durki=14527 Data Source Registry data Electronic administrative data/claims, lab data, paper medical record/flow-sheet Level of Measurement Analysis Cilinicians: Group: Facility/agency; Population: National, regional/network, states, counties or cities Care Settings Hospital Hospital Hospital Hospital Hospital				Procedure Code is on Table 5.08, for
the Measure Category Assignment for measure SCIP-Inf-2a. Stop processing. 2a.22. Describe the method for discriminating performance (E.g., significance testing) Benchmarks restablished using the ABC methodology, based on the actual performance of the top facilities. ABC benchmarks identify superior performance and encourage poorer performance of the top facilities. ABC benchmarks identify superior performance and encourage poorer performance to improve. It is distanctive, peer-group performance (Eedback. Achievable Benchmarks of Care TM: developed Benchmarks of Care TM: developed a Benchmarks of Care TM: developed by Post-in-class' care givers. Development of benchmarks are levels 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 an enasurable level of excellence that always exceeds average performance. It consures that are having difficulty improving care. The benchmarks represent an enasurable level of excellence that always exceeds average performance. It consures that are having difficulty improviders with high performance but very low numbers of cases do not unduly influence benchmark levels. Additional information can be found at http://main.unab.edu/show.usp?durki=14527 Data Source Registry data Electronic administrative data/claims, lab data, paper medical record/flow-sheet Level of Measurement Analysis Cilinicians: Group: Facility/agency; Population: National, regional/network, states, counties or cities Care Settings Hospital Hospital Hospital Hospital Hospital				
for measure SCIP-Inf-2h to equal the Measure the Measure that the				· ·
Measure Category Assignment for measure SCIP-In-In-2a, Stop processing. 2a.22. Describe the method for discriminating performance (E.g., significance testing) Benchmarks are established using 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 performence feedback. Achievable Benchmarks of Care TM: developed Benchmarks of Care TM: developed by Test-in-class" care equivers. Development of benchmarks that are realistic and achievable may help to motivate providers that are having difficulty improving care. The benchmark care levels already achieved by Test-in-class" care having difficulty improving care. The benchmark represent a measurable level of excellence that all superior providers with high performance. It ensures that all superior providers with high performance but very low numbers 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 data/claims, lab data, paper medical recort/flow-sheet Electronic administrative data/claims, paper medical recort/flow-sheet Facility/agency; Population: National, regional/network, states, counties or clites Hospital				
measure SCIP-Inf-2a. Stop processing. 2a.22. Describe the method for discriminating performance (E.g., significate testing) Here of the performance of the top facilities. ABC benchmarks identify superior performance and encourage poorer performers to improve. It is data-dechape. Performance and encourage poorer performers to improve. It is data-dechape. ACC benchmarks of Care TM: developed at the University of Alabama at Birmingham for AHRQ. This methodology identifies benchmark care levels already achieved by 'best-in-class' care givers. Development of benchmarks are realistic and achievable may help to motivate providers that are haaving difficulty improving care. The benchmarks represent a measureable evel of excellence that always exceeds exceed acceptable and the providers with high performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Care Settings Hospital Hospital Hospital Hospital Hospital				<u> </u>
processing. 2a.22. Describe the method for discriminating performance (E.g., significance testing) Benchmarks are established using the ABC methodology, based on the actual performance and encourage porore performance and encourage performance and encourage porore				
Academic and the state of the				
discriminating performance (E.g., significance testing) Benchmarks are established using the ABC methodology, based on the actual performance of the top facilities. ABC benchmarks identify superior performance and encourage poorer performs 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 identifies benchmark care levels 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 with high performance but very low numbers of cases do not unduly influence benchmark the very low numbers of cases do not unduly influence benchmark that providers with high performance but very low numbers of cases do not unduly influence benchmark that great the data/claims, lab data, paper medical record/flow-sheet Level of Measurement Analysis Clinicians: Individual Facility/agency; Population: National, regional/network, states, counties or cities Hospital Hospit				
Significance resting Benchmarks are established using the ABC methodology, based on the actual performance of the top facilities. ABC benchmarks identify superior performance and encourage poore performes to improve. It is data-driven, peer-group performance feedback. Achievable Benchmarks of Care TM: developed at the University of Alabama an Birmingham for AHRQ. This methodology identifies benchmark care levels 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 after providers with high performance but very low numbers of cases do not unduly influence benchmark levels. Additional information can be found at http://main.uab.edu/show.asp?durkie_14527 Data Source Registry data Electronic administrative data/claims, lab data, paper medical record/flow-sheet Clinicians: Group; Clinicians: Individual Facility/agency Facility/agency: Population: Analysis National, regional/network, states, counties or cities Care Settings Hospital Hospital Ambulatory care: Hospital				
Benchmarks are established using 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 identifies benchmark care levels 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 performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Cilinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities Care Settings Hospital Hospital Hospital Hospital Hospital				0 1
ABC methodology, based on the actual performance of the top facilities. ABC benchmarks identify superior performance and encourage poorer performance and encourage poorer performance and encourage poorer performance. 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 identifies benchmark care levels 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 performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Care Settings Hospital Hospital Hospital Hospital Hospital Facility/agency				
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 identifies benchmark care levels 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 exceed a verage performance. It ensures that providers with high performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Cilinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities Hospital Hospital Hospital, Ambulatory care: Hospital				
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 identifies benchmark care levels 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 all superior providers contribute to the benchmark but also ensures that all superior providers contribute to the benchmark but also ensures that all superior providers contribute to the benchmark but also ensures that providers with high performance but very low numbers of cases do not unduly influence benchmark levels. Additional information can be found at http://main.aub.edu/show.asp?durki=14527 Data Source Registry data Electronic administrative data/claims, lab data, paper medical record/flow-sheet Clinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities Care Settings Hospital Hospital, Ambulatory care: Hospital				
Superior performance and encourage poorer performs 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 identifies benchmark care levels 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 performance but very low numbers of cases do not unduly influence benchmark levels. Additional information can be found at http://main.uab.edu/show.asp?durki=14527 Data Source				
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 identifies benchmark care levels 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 performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Level of Measurement / Analysis Care Settings Hospital Hospital Hospital, Ambulatory care: Hospital				
data-driven, peer-group performance feedback. Achievable Benchmarks of Care TM: developed at the University of Alabama at Birmingham for AHRQ. This methodology identifies benchmark care levels 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 performance but very low numbers of cases do not unduly influence benchmark levels. Additional information can be found at http://main.uab.edu/show.asp?durki=14527 Data Source				
Feedback				1
Achievable Benchmarks of Care TM: developed at the University of Alabama at Birmingham for AHRQ. This methodology identifies benchmark care levels 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 providers with high performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Electronic administrative data/claims, paper medical record/flow-sheet Clinicians: Individual Facility/agency Population: National, regional/network, states, counties or cities Care Settings Hospital Hospital Hospital, Ambulatory care: Hospital				
developed at the University of Alabama at Birmingham for AHRQ. This methodology identifies benchmark care levels 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 performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Electronic administrative data/claims, paper medical record/flow-sheet Facility/agency; Population: National, regional/network, states, counties or cities Facility/agency Facility/agency; Population: National, regional/network, states, counties or cities Hospital Hospital, Ambulatory care: Hospital				
Alabama at Birmingham for AHRQ. This methodology identifies benchmark care levels 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 performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Level of Clinicians: Group; Clinicians: Individual Facility/agency; Population: National, regional/network, states, counties or cities Care Settings Hospital Hospital Ambulatory care: Hospital				
This methodology identifies benchmark care levels 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 performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Level of Measurement /Analysis Care Settings Hospital Hospital Hospital Hospital Hospital				
benchmark care levels 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 allways exceeds average performance. It ensures that all superior providers contribute to the benchmark but also ensures that providers with high performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Clinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities Hospital Hospital Hospital Hospital Hospital, Ambulatory care: Hospital				
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 performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Level of Measurement /Analysis Care Settings Hospital Hospital, Ambulatory care: Hospital				
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 performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Clinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities Care Settings Hospital Hospital, Ambulatory care: Hospital				benchmark care levels already
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 performance but very low numbers of cases do not unduly influence benchmark levels. Additional information can be found at http://main.uab.edu/show.asp?durki= 14527 Data Source				achieved by "best-in-class" care
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 performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Electronic administrative data/claims, paper medical record/flow-sheet Level of Measurement /Analysis Facility/agency; Population: National, regional/network, states, counties or cities Hospital Hospital, Ambulatory care: Hospital				givers. Development of benchmarks
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 performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Electronic administrative data/claims, paper medical record/flow-sheet Level of Measurement /Analysis Facility/agency; Population: National, regional/network, states, counties or cities Hospital Hospital, Ambulatory care: Hospital				that are realistic and achievable may
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 performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Evel of Measurement /Analysis Clinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities Hospital, Ambulatory care: Hospital				help to motivate providers that are
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 performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Electronic administrative data/claims, paper medical record/flow-sheet Facility/agency; Population: National, regional/network, states, counties or cities Clinicians: Individual Facility/agency Facility				-
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 performance but very low numbers of cases do not unduly influence benchmark levels. Additional information can be found at http://main.uab.edu/show.asp?durki= 14527 Data Source				
Electronic administrative data/claims, lab data, paper medical record/flow-sheet Level of Measurement / Analysis Care Settings Hospital Hospital Hospital Ambulatory care: Hospital Exceeds average performance. It ensures that all superior providers contribute to the benchmark but also ensures that providers with high performance but very low numbers of cases do not unduly influence benchmark levels. Additional information can be found at http://main.uab.edu/show.asp?durki= 14527 Electronic administrative data/claims, lab data, paper medical record/flow-sheet Facility/agency; Population: National, regional/network, states, counties or cities Care Settings Hospital Hospital, Ambulatory care: Hospital				
ensures that all superior providers contribute to the benchmark but also ensures that providers with high performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Electronic administrative data/claims, paper medical record/flow-sheet Facility/agency; Population: National, regional/network, states, counties or cities Hospital Hospital, Ambulatory care: Hospital				
contribute to the benchmark but also ensures that providers with high performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Electronic administrative data/claims, paper medical record/flow-sheet Level of Measurement /Analysis Pacility/agency; Population: National, regional/network, states, counties or cities Hospital Hospital, Ambulatory care: Hospital				
Part Source Registry data Electronic administrative data/claims, lab data, paper medical record/flow-sheet Facility/agency; Population: /Analysis National, regional/network, states, counties or cities Hospital Hospital, Ambulatory care: Hospital Hospital Hospital Eensures that providers with high performance but very low numbers of cases do not unduly influence benchmark levels. Additional information can be found at http://main.uab.edu/show.asp?durki= 14527 Electronic administrative data/claims, lab data, paper medical record/flow-sheet Facility/agency Clinicians: Individual Facility/agency Facility/				
performance but very low numbers 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 data/claims, lab data, paper medical record/flow-sheet Electronic administrative data/claims, paper medical record/flow-sheet Clinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities Care Settings Hospital Hospital, Ambulatory care: Hospital				
Data Source Registry data Electronic administrative data/claims, lab data, paper medical record/flow-sheet Clinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities Care Settings Hospital Of cases do not unduly influence benchmark levels. Additional information can be found at http://main.uab.edu/show.asp?durki= 14527 Electronic administrative data/claims, paper medical record/flow-sheet Clinicians: Individual Facility/agency Facility/agency Hospital Hospital, Ambulatory care: Hospital				
benchmark levels. Additional information can be found at http://main.uab.edu/show.asp?durki= 14527 Data Source Registry data Electronic administrative data/claims, lab data, paper medical record/flow-sheet Clinicians: Group; Facility/agency; Population: /Analysis National, regional/network, states, counties or cities Care Settings Hospital benchmark levels. Additional information can be found at http://main.uab.edu/show.asp?durki= 14527 Electronic administrative data/claims, paper medical record/flow-sheet Facility/agency; Population: Hospital, Ambulatory care: Hospital				
Data Source Registry data Registry data Clinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities Care Settings Registry data Electronic administrative data/claims, lab data, paper medical record/flow-sheet Clinicians: Individual Facility/agency Facility/agency Facility/agency Hospital, Ambulatory care: Hospital				
Data Source Registry data Registry data Clinicians: Group; Analysis Care Settings Registry data Registry data Electronic administrative data/claims, lab data, paper medical record/flow-sheet Clinicians: Individual Facility/agency; Population: National, regional/network, states, counties or cities Hospital, Ambulatory care: Hhttp://main.uab.edu/show.asp?durki= 14527 Electronic administrative data/claims, paper medical record/flow-sheet Facility/agency Facility/agency Hospital				
Data Source Registry data Electronic administrative data/claims, lab data, paper medical record/flow-sheet Clinicians: Group; Measurement /Analysis Care Settings Registry data Electronic administrative data/claims, paper medical record/flow-sheet Clinicians: Individual Facility/agency Facility/agency Facility/agency Hospital Hospital, Ambulatory care: Hospital				
Data Source Registry data Electronic administrative data/claims, lab data, paper medical record/flow-sheet Electronic administrative data/claims, paper medical record/flow-sheet Level of Measurement /Analysis Clinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities Clinicians: Individual Facility/agency Facility/agency Care Settings Hospital Hospital, Ambulatory care: Hospital				<u> </u>
data/claims, lab data, paper medical record/flow-sheet Level of Measurement /Analysis Care Settings data/claims, paper medical record/flow-sheet Clinicians: Individual Facility/agency Clinicians: Individual Facility/agency Facility/agency Facility/agency Hospital Hospital, Ambulatory care: Hospital	Data Sauras	Pagistry date	Flaatronia administrativa	
record/flow-sheet record/flow-sheet	Data Source	Registry data		
Level of Measurement /Analysis Clinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities Clinicians: Individual Facility/agency Care Settings Hospital Hospital, Ambulatory care: Hospital				
Measurement /Analysis Facility/agency; Population: National, regional/network, states, counties or cities Hospital Hospital	Landof	Cliniciana Craye:		
/Analysis National, regional/network, states, counties or cities Care Settings Hospital Hospital, Ambulatory care: Hospital			Cimicians: Individual	racility/agency
counties or cities Care Settings Hospital Hospital, Ambulatory care: Hospital				
Care Settings Hospital Hospital, Ambulatory care: Hospital	/Analysis			
	a a :			**
Ambulatory surgery center	Care Settings	Hospital	-	Hospital
			Ambulatory surgery center	

Prophylactic Antibiotics: Timing/Received

The measure focus for these measures is similar in terms of timing of prophylaxis with differences in population of interest and level of analysis. Measure 0125 is specific to cardiac surgery; uses registry data; level of measurement is clinician group, facility in hospitals.

Measure 0527 is a SCIP measure; uses administrative/claims data; level of measurement is hospital.

Measure 0270 focuses on presence of orders for parenteral antibiotics though it can be met through documentation that antibiotic was given. It uses administrative/claims, medical record data; the level of measurement is clinicians, individual or group in hospital and ambulatory surgery centers. Measure 0269 focuses on parenteral antibiotics for surgical patients to whom the identified antibiotics are given. It uses administrative/claims data; level of measurement is clinicians, individual or group in hospital and ambulatory surgery centers.

Measure 0472 is specific to cesarean delivery; uses medical record, lab, patient survey data; level of measurement is hospital.

	Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
Status	Currently undergoing maintenance review Criteria met Y-17, N-2	Currently undergoing maintenance review Criteria met Y-17, N-1	Endorsed 7/2008	Endorsed 11/2007	Endorsed 10/2008
Steward	Society of Thoracic Surgeons	Centers for Medicare & Medicaid Services	American Medical Association-Physician Consortium for Performance Improvement	National Committee for Quality Assurance, American Medical Association-Physician Consortium for Performance Improvement	Massachusetts General Hospital/Partners Health Care System
Description	Percent of patients aged 18 years and older undergoing cardiac surgery who received prophylactic antibiotics within one hour of surgical incision or start of procedure if no incision was required (two hours if receiving vancomycin or fluoroquinolone).	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	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.

			TE QUIETTI OI		
	Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
		fluoroquinolone, it is acceptable to start these antibiotics within two hours prior to incision time.			
Type of Measure	Process	Process	Process	Process	Process
Numerator	Number of patients undergoing cardiac surgery patients who received prophylactic antibiotics within one hour of surgical incision or start of procedure if no incision was required (two hours if vancomycin or fluoroquinolone). Time window: Within one hour of surgical incision or start of procedure if no incision was required (two hours if vancomycin or fluoroquinolone). Rationale: 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.	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 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).	Surgical patients for whom administration of a prophylactic 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). The antimicrobial drugs listed below are considered prophylactic antibiotics for the purposes of this measure: •Ampicillin/sulbactam •Aztreonam •Cefazolin •Cefmetazole •Cefotetan •Cefoxitin •Cefuroxime •Ciprofloxacin •Clindamycin •Erythromycin base •Gatifloxacin •Gentamicin •Levofloxacin •Metronidazole •Moxifloxacin •Neomycin	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 unlikely to be exactly simultaneous 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.

	T		AL QUALITITOI		I =
	Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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	
Numerator Details	Number of cardiac surgery procedures in which timing of appropriate antibiotic administration [AbxTiming (STS Adult Cardiac Surgery Database Version 2.73)] is marked "yes"	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 hour (if fluoroquinolone or vancomycin, two hours) prior to surgical incision (or start of procedure when no incision is required). OR Documentation that prophylactic antibiotic has been given within one hour prior to the surgical incision (or start of procedure when no incision is required). • CPT II 4048F: Documentation that prophylactic antibiotic was given within one hour (if fluoroquinolone or vancomycin, two hours) prior to surgical incision (or start of procedure when no incision is required).	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 code. Identify surgical patients who were administered prophylactic antibiotics (See Table 2A) within one hour (if vancomycin, two hours) prior to the surgical incision (or start of procedure when no incision is required): •? GXXXXX: Clinician documented to have given the prophylactic antibiotic within one hour (if vancomycin, two hours) prior to the surgical incision (or start of procedure when no incision is required). OR ? CPT II XXXXF: Documentation that prophylactic antibiotic was given within one hour (if vancomycin, two hours) prior to surgical	

			TE QUILLIT I OF		
01 an	Maintenance Measure 125: Timing of ntibiotic prophylaxis for ardiac surgery patients	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.
				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 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	

	Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
Denominator	Number of patients undergoing cardiac surgery. Time window: 12 months	Number of surgical patients with: CABG (ICD-9-CM procedure codes 36.10-36.14, 36.19, 36.15-36.17, 36.2), other cardiac surgery (35.0-35.95, 35.98, 35.99), colon 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,	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.	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. 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. 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.

			TE CONEIL TO		
	Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
		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 Categories	Female, Male; 18 and older	Female, Male; Patients aged 18 and 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	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, 27130, 27132, 27134, 27137, 27138 Trauma (Fractures): 27235, 27236, 27244, 27245, 27758, 27759, 27766, 27792, 27814 Knee Reconstruction: 27440-27443, 27445-27447 Laryngectomy: 31360, 31365, 31367, 31368, 31370, 31375, 31380, 31382, 31390, 31395 Vascular: 33877, 33880, 33881, 33883, 33886,	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 when no incision is required). OR •? CPT II XXXXF: Documentation of order for prophylactic parenteral antibiotic 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	

25.1.1.25		IONAL QUALITITO		7 1 115 0470
Maintenance Mea			Endorsed Measure	Endorsed Measure 0472:
0125 : Timing of	0527 : Prophylactic	Timing of antibiotic	0269: Timing of	Prophylactic antibiotic received
antibiotic prophyla			prophylactic antibiotics -	within one hour prior to surgical
cardiac surgery pat		physician	administering physician	incision or at the time of
	incision SCIP-Inf-1			delivery – cesarean section.
[Surgical Ventricul	lar	34805, 34825, 34830-	verbal order, or standing	
Restoration], OCar	rCong	34832, 34900, 35081,	order/protocol) specifying	
[Congenital Defect	t	35091, 35102, 35131,	that antibiotic is to be	
Repair], OCarTrma	a	35141, 35151, 35601,	given within one hour (if	
[surgical procedure	e for an	35606, 35612, 35616,	vancomycin, two hours)	
injury due to Cardi	iac	35621, 35623, 35626,	prior to the surgical	
Trauma], OCarCrT	Гх	35631, 35636-35638,	incision (or start of	
[Cardiac Transplan	nt],	35642, 35645-35647,	procedure when no	
OCarACD [Arrhyt	thmia	35650, 35651, 35654,	incision is required). A	
Correction Surgery	y],	35656, 35661, 35663,	sample should be	
OCAoProcType[A	ortic	35665, 35666, 35671,	determined using the most	
Procedure Type],		36830	accurate data available in	
EndoProc [Endova	ascular	Spleen and Lymph Nodes:	the settings in which the	
Procedure (TEVAL	R)],	38115	measure will be	
OCTumor [resection	on of an	Glossectomy: 41130,	implemented. Sample	
intracardiac tumor]],	41135, 41140, 41145,	sizes may be defined by	
OCPulThromDis		41150, 41153, 41155	different implementers.	
[Pulmonary		Esophagus: 43045, 43100,		
Thromboembolecto	omy,,	43101, 43107, 43108,	Hybrid: Users should	
OCarOthr [Other C	Cardiac	43112, 43113, 43116-	follow the requirements	
Procedure other that	an	43118, 43121-43124,	of electronic data	
those listed previou	usly],	43130, 43135, 43300,	collection, select a sample	
ECMO [Extracorpo	oreal	43305, 43310, 43312,	of patients, and then	
Membrane Oxygen	nation],	43313, 43320, 43324-	supplement the electronic	
OCarLasr [-		43326, 43330, 43331,	data where needed with	
Transmyocardial L	Laser	43340, 43341, 43350,	medical record abstraction	
Revascularization].	,	43351, 43352, 43360,	of data elements to fulfill	
OCarASD [Atrial S	Septal	43361, 43400, 43401,	measure reporting	
Defect Repair],		43405, 43410, 43415,	requirements.	
OCarAFibSur [Atr	rial	43420, 43425, 43496	_	
Fibrillation Surgica	al	Stomach: 43500-43502,	EHR: Electronic Health	
Procedure]		43510, 43520, 43600,	Record (EHR) users may	
		43605, 43610, 43611,	opt to use this	
		43620-43622, 43631-43634,	methodology or the	
		43640, 43641, 43653,	electronic data collection	
		43800, 43810, 43820,	methodology described	
		43825, 43830-43832,	previously. EHR users	
		43840, 43842, 43843,	should collect data on	

		TE QUILLITT OF		
Maintenance Measure	Maintenance Measure	Endorsed Measure 0270:	Endorsed Measure	Endorsed Measure 0472:
0125 : Timing of	0527 : Prophylactic	Timing of antibiotic	0269: Timing of	Prophylactic antibiotic received
antibiotic prophylaxis for	antibiotic received within 1	prophylaxis- ordering	prophylactic antibiotics -	within one hour prior to surgical
cardiac surgery patients	hour prior to surgical	physician	administering physician	incision or at the time of
	incision SCIP-Inf-1			delivery – cesarean section.
		43845-43848, 43850,	100% of their	
		-		
		43855, 43860, 43865,	denominator population	
		43870	instead of a sample.	
		Small Intestine: 44005,		
		44010, 44020, 44021,	EHR users may opt to use	
		44050, 44055, 44100,	the codes listed in the	
		44120, 44125-44127,	electronic data collection	
		44130, 44132, 44133,	methodology to identify	
		44135, 44136	all patients aged 18 years	
		Colon and Rectum: 43880,	and older who have an	
		44025, 44110, 44111,	order for a parenteral	
		44140, 44141, 44143-	antibiotic to be given	
		44147, 44150, 44151,	within one hour (if	
		44155-44158, 44160,	vancomycin, two hours)	
		-		
		44202, 44204-44208,	prior to the surgical	
		44210-44212, 44300,	incision (or start of	
		44310, 44312, 44314,	procedure when no	
		44316, 44320, 44322,	incision is required).	
		44340, 44345, 44346,		
		44602-44605, 44615,		
		44620, 44625, 44626,		
		44640, 44650, 44660,		
		44661, 44700, 44950,		
		51597		
		Anus and Rectum: 45108,		
		45110-45114, 45116,		
		45119-45121, 45123,		
		45126, 45130, 45135,		
		45136, 45150, 45160,		
		45170, 45190, 45500,		
		45505, 45520, 45540,		
		45541, 45550, 45560,		
		45562, 45563, 45800,		
		45805, 45820, 45825		
		Hepatic Surgery: 47133,		
		47135, 47136, 47140-47142		
		Biliary Surgery: 47420,		
		47425, 47460, 47480,		

		TE QUILLIT I OF		
Maintenance Measure	Maintenance Measure	Endorsed Measure 0270:	Endorsed Measure	Endorsed Measure 0472:
0125 : Timing of	0527 : Prophylactic	Timing of antibiotic	0269: Timing of	Prophylactic antibiotic received
antibiotic prophylaxis for	antibiotic received within 1	prophylaxis- ordering	prophylactic antibiotics -	within one hour prior to surgical
cardiac surgery patients	hour prior to surgical	physician	administering physician	incision or at the time of
	incision SCIP-Inf-1			delivery – cesarean section.
		47560 47561 47570		
		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		
		Cochlear Implants: 69930		
		Neurological Surgery:		
		22524, 22554, 22558,		
		22600, 22612, 22630,		
		35301, 61154, 61312,		

 		AL QUALITITO		
Maintenance Measure	Maintenance Measure	Endorsed Measure 0270:	Endorsed Measure	Endorsed Measure 0472:
0125 : Timing of	0527 : Prophylactic	Timing of antibiotic	0269: Timing of	Prophylactic antibiotic received
antibiotic prophylaxis for	antibiotic received within 1	prophylaxis- ordering	prophylactic antibiotics -	within one hour prior to surgical
cardiac surgery patients	hour prior to surgical	physician	administering physician	incision or at the time of
	incision SCIP-Inf-1			delivery – cesarean section.
		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,		
		32430, 32001, 32012,		

		TE QUILLITT OF		
Maintenance Measure	Maintenance Measure	Endorsed Measure 0270:	Endorsed Measure	Endorsed Measure 0472:
0125 : Timing of	0527 : Prophylactic	Timing of antibiotic	0269: Timing of	Prophylactic antibiotic received
antibiotic prophylaxis for	antibiotic received within 1	prophylaxis- ordering	prophylactic antibiotics -	within one hour prior to surgical
cardiac surgery patients	hour prior to surgical	physician	administering physician	incision or at the time of
	incision SCIP-Inf-1			delivery – cesarean section.
		52614, 52620, 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,		

	Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
			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	Cases are removed from the denominator if the patient had a documented contraindication or rationale for not administering antibiotic in medical record. Other 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 were receiving antibiotics more than 24 hours prior to surgery - Patients who were receiving antibiotics	•Principal or admission diagnosis suggestive of preoperative infectious disease •Infectious diseases (001.0-139.8) •Meningitis (320.0-326) •Ear infection (380.0-380.23; 382.0-382.20) •Endocarditis (421.0-422.99) oRespiratory (460-466.19; 472-476.1; 480-487.8; 490-491.9; 510-511.9; 513-513.1) •Digestive (540-542; 575.0) •Renal (590-590.9; 595.0) •Prostate (601.0-601.9) •Gynecologic (614-614.9; 616-616.4) •Skin (680-686.9) •Musculo-skeletal (711.9-711.99, 730-730.99) •Fever of unknown origin (780.6) •Septic shock (785.59)	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	

	Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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 24 hours prior to arrival This list will be provided in the STS Adult Cardiac Surgery Database Data Manager's Training Manual as acceptable exclusions.	•Bacteremia (790.7) •Viremia (790.8) •Receiving antibiotics at the time of admission (except colon surgery patients taking oral prophylactic antibiotics) •Medical records do not include antibiotic start date/time or incision date/time •Receiving antibiotics more than 24 hours prior to surgery (except colon surgery patients taking oral prophylactic antibiotics) •Colon surgery patients who received oral prophylactic antibiotics only			
Exclusion Details	Timing of appropriate antibiotic administration (AbxTiming) is marked "Exclusion"	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	No risk adjustment necessary
Stratification	N/A	The antibiotic prophylaxis measures are stratified			

			TE QUILLITT OF		
	Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
		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	Rate/proportion			
Algorithm	N/A	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 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			

			TE QUILLITT OF	•	
0 a	Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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	Prophylactic antibiotic received within one hour prior to surgical incision or at the time of delivery – cesarean section.
		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 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			

		THE QUILLITTI OF		
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	Maintenance Measure 0527: Prophylactic antibiotic received within 1 hour prior to surgical	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
<i>S J</i> F		r y	81 7	
cardiac surgery patients	hour prior to surgical incision SCIP-Inf-1 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 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 a. If the ICD-9-CM	physician	administering physician	incision or at the time of delivery – cesarean section.
	on Table 5.09, the case will			

 	1 (111101)	THE QUILLITT TO		
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
	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 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.			

 	1 (711101)	AL QUALITITO		
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
	c. If Laparoscope equals 2, continue processing and proceed to Clinical Trial. 8. Check 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 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 is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing for CMS.			

		THE QUILLITT TO		
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
	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 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 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 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			

received o surgical of etion.
o surgical of
o surgical of
of
ction.

		THE QUILLITT TO		
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
				denvery cesarean section.
	incision SCIP-Inf-1 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 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			delivery – cesarean section.
	Measures for Overall Rate (SCIP- Inf-1a) for The Joint			
	(SCII - IIII-1a) 101 THE JOHN			

TATIONAL QUALITY FORUM				
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
	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			

		COMPLETE TO		
0125: Timi antibiotic pr	ce Measure ng of rophylaxis for gery patients Maintenance Measure 0527: Prophylactic antibiotic received with hour prior to surgical incision SCIP-Inf-1	Timing of antibiotic	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.
	processing and proceed 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 and If the ICD-9-CM Principal Procedure Code not on Table 5.03, the code will proceed to a Measure Category Assignment of and will not be in the measure population. Stoprocessing for CMS. Proceed to step 36 and check the Stratified Measures for Overall Research (SCIP-Inf-1a) for The Jacon Table 5.03, continue processing and proceed check Oral Antibiotics. 17. Check Oral Antibiotics. 17. Check Oral Antibiotics is missing, the case will proceed to a Measure Category Assignment of and will be rejected. Stoprocessing for CMS. Proceed to step 36 and check the Stratified	de is ase are f B pp ate oint de is to ics		

		AL QUALITITOI		
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
	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 Received. 18.Recheck 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			

		TE QUILLIT I OF		
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
	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. 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.			

•		THE QUILLITT TO		
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	Maintenance Measure 0527: Prophylactic antibiotic received within 1 hour prior to surgical	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
	incision SCIP-Inf-1			delivery – cesarean section.
	incision SCIP-Inf-1 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 Antibiotic Days I calculation. Note: Proceed only with antibiotic doses that have an associated non Unable to			delivery – cesarean section.
1	Determine date.			

		TE QUILLIT I OI		
Maintenance Measure 0125: Timing of	Maintenance Measure 0527: Prophylactic	Endorsed Measure 0270: Timing of antibiotic	Endorsed Measure 0269: Timing of	Endorsed Measure 0472: Prophylactic antibiotic received
antibiotic prophylaxis for	antibiotic received within 1	prophylaxis- ordering	prophylactic antibiotics -	within one hour prior to surgical
cardiac surgery patients	hour prior to surgical	physician	administering physician	incision or at the time of
	incision SCIP-Inf-1			delivery – cesarean section.
	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. 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			

Maintenance Measure	Maintenance Measure	Endorsed Measure 0270:	Endorsed Measure	Endorsed Measure 0472:
0125: Timing of	0527: Prophylactic	Timing of antibiotic	0269: Timing of	Prophylactic antibiotic received
antibiotic prophylaxis for	antibiotic received within 1	prophylaxis- ordering	prophylactic antibiotics -	within one hour prior to surgical
cardiac surgery patients	hour prior to surgical	physician	administering physician	incision or at the time of
eardide surgery patients	incision SCIP-Inf-1	physician	danimistering physician	delivery – cesarean section.
	(SCIP-Inf-1a) for The Joint			denvery cesarean section.
	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, 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			
	1			

		TE QUILLIT I OF		
Maintenance Measure	Maintenance Measure	Endorsed Measure 0270:	Endorsed Measure	Endorsed Measure 0472:
0125 : Timing of	0527 : Prophylactic	Timing of antibiotic	0269: Timing of	Prophylactic antibiotic received
antibiotic prophylaxis for	antibiotic received within 1	prophylaxis- ordering	prophylactic antibiotics -	within one hour prior to surgical
cardiac surgery patients	hour prior to surgical	physician	administering physician	incision or at the time of
	incision SCIP-Inf-1			delivery – cesarean section.
	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			

		TE QUILLIT I OI		
Maintenance Measure 0125: Timing of	Maintenance Measure 0527: Prophylactic	Endorsed Measure 0270: Timing of antibiotic	Endorsed Measure 0269: Timing of	Endorsed Measure 0472: Prophylactic antibiotic received
antibiotic prophylaxis for	antibiotic received within 1	prophylaxis- ordering	prophylactic antibiotics -	within one hour prior to surgical
cardiac surgery patients	hour prior to surgical	physician	administering physician	incision or at the time of
	incision SCIP-Inf-1			delivery – cesarean section.
	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			

		TE QUILLIT I OI		
Maintenance Measure 0125: Timing of antibiotic prophylaxis for	Maintenance Measure 0527: Prophylactic antibiotic received within 1	Endorsed Measure 0270: Timing of antibiotic prophylaxis- ordering	Endorsed Measure 0269: Timing of prophylactic antibiotics -	Endorsed Measure 0472: Prophylactic antibiotic received within one hour prior to surgical
cardiac surgery patients	hour prior to surgical incision SCIP-Inf-1	physician	administering physician	incision or at the time of delivery – cesarean section.
	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-			
	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			

			TE QUILLIT I OF	•	
0 a	Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
		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, 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			

		AL QUALITITOR		
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
	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. 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 is on Table 3.8 or Table 3.10 for at least one dose, continue processing and recheck Antibiotic Timing I.			

		TE QUILLIT I OI		
Maintenance Measure	Maintenance Measure	Endorsed Measure 0270:	Endorsed Measure	Endorsed Measure 0472:
0125 : Timing of	0527 : Prophylactic	Timing of antibiotic	0269: Timing of	Prophylactic antibiotic received
antibiotic prophylaxis for	antibiotic received within 1	prophylaxis- ordering	prophylactic antibiotics -	within one hour prior to surgical
cardiac surgery patients	hour prior to surgical	physician	administering physician	incision or at the time of
careful surgery patients	incision SCIP-Inf-1	Pilystetail	denimisering projection	delivery – cesarean section.
				denvery cesarean section.
	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			

		AL QUALITITO		
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
	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 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.			

			TE QUILLITT OF		
I.V.	Maintenance Measure	Maintenance Measure	Endorsed Measure 0270:	Endorsed Measure	Endorsed Measure 0472:
0	125 : Timing of	0527 : Prophylactic	Timing of antibiotic	0269: Timing of	Prophylactic antibiotic received
aı	ntibiotic prophylaxis for	antibiotic received within 1	prophylaxis- ordering	prophylactic antibiotics -	within one hour prior to surgical
	ardiac surgery patients	hour prior to surgical	physician	administering physician	incision or at the time of
	ardiae surgery patients	incision SCIP-Inf-1	physician	dammistering physician	delivery – cesarean section.
					denvery = cesarean section.
		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			

		TE QUILLITT OF	•	
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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	Prophylactic antibiotic received within one hour prior to surgical incision or at the time of delivery – cesarean section.
	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 Procedure Code a. If the ICD-9-CM Principal Procedure Code b. A. Recheck ICD-9-CM Principal Procedure Co			

		THE QUILLITT TO		
Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
	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 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-1g, set the Measure Category Assignment for measure SCIP-Inf-1g to			

	Maintenance Measure 0125: Timing of antibiotic prophylaxis for cardiac surgery patients	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.
		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	Registry data	Electronic administrative data/claims, paper medical record/flow-sheet	Electronic administrative data/claims, lab data, paper medical record/flow-sheet	Electronic administrative data/claims	Lab data, paper medical record/flow-sheet, survey: patient
Level of Measurement /Analysis	Clinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities	Facility/agency	Clinicians: Individual, group	Clinicians: individual	Facility/agency
Care Settings	Hospital	Hospital	Hospital, Ambulatory care: Ambulatory surgery center	Hospital, Ambulatory care: Ambulatory surgery center	Hospital

Statin Medication

The measures focus on statin therapy at discharge in different populations - patients undergoing CABG (0118) or LEB (1519) surgeries.

Both use registry data to provide information about clinicians in hospital settings.

	Maintenance Measure 0118: Anti-lipid	New Candidate Measure 1519: Statin
	treatment discharge	therapy at discharge after lower extremity
		bypass (LEB)
Status	Currently undergoing maintenance review	Currently undergoing review
	Criteria met Y-20, N-0	
	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Criteria met Y-19, N-0
		SC requested improved precision of
		numerator and denominator
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	Patients undergoing infrainguinal lower
Numer aud	CABG who were discharged on a statin or	extremity bypass who are prescribed a statin
	other lipid-lowering regimen.	medication at discharge.
	Time window:	Time window: Last 50 consecutive procedures for provider reporting with suppression if <10 procedures, 12 months for hospital reporting.
Numerator Details Denominator	Number of isolated CABG procedures in which discharge lipid lowering medication [DCLipid (STS Adult Cardiac Surgery Database Version 2.73)] is marked "yes"	A 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. 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,
	All patients undergoing isolated CABG.	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. All patients aged 18 years and older
		undergoing lower extremity bypass as

National Quality Forum

	Maintenance Measure 0118: Anti-lipid treatment discharge Time window: 12 months	New Candidate Measure 1519: Statin therapy at discharge after lower extremity bypass (LEB) defined above who are discharged alive, excluding those patients who are intolerant to statins. 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.,
Denominator Categories	Female, Male; 18 yrs and older	reported as too low volume to report). Female, Male; 18 years or older
Denominator Details	Number of isolated CABG procedures excluding cases with in-hospital mortality or cases for which discharge anti-lipid treatment use was contraindicated. Isolated CABG is determined as a procedure for which all of the following apply: - OpCAB is marked "Yes" - (VADProc is marked "No" or "Missing") or (VADProc is marked "Yes, Implanted" and UnplVAD is marked "yes") - 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 marked "no" or "missing"	A 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 registries capture detailed anatomic information. 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	Cases are removed from the denominator if there was an in-hospital mortality or if discharge anti-lipid treatment was contraindicated.	Chart documentation that patient was not an eligible candidate for statin therapy due to known drug intolerance, or patient died before discharge.
Exclusion Details	Mortality Discharge Status (MtDCStat), Mortality Date (MtDate), and Discharge Date (DischDt) indicate an in-hospital mortality; DCLipid is marked as "Contraindicated"	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	No risk adjustment necessary
Stratification		Not required
Type Score	Rate/proportion	Rate/proportion

	Maintenance Measure 0118: Anti-lipid treatment discharge	New Candidate Measure 1519: Statin therapy at discharge after lower extremity bypass (LEB)
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 /Analysis	Clinicians: Group; Facility/agency; Population: National, regional/network, states, counties or cities	Clinicians: Individual, group; Facility/agency; Can be measured at all levels
Care Settings	Hospital	Hospital

NQF MEMBER AND PUBLIC COMMENT

No comments were made.

NEXT STEPS

Ms. Murphy highlighted the upcoming Surgery Endorsement Maintenance Pre-Voting Webinar on August 16, 2011. This meeting will provide an opportunity for NQF members and the public to review and discuss the Phase I draft report with a co-chair of the Steering Committee and a member of Consensus Standards Approval Committee (CSAC) before NQF members vote on the recommended measures for endorsement. The Committee was invited to attend. Simultaneously with the webinar, the Phase I draft report will be posted to the NQF website for 15- day Member voting period on August 16, 2011. Ms. Murphy mentioned that the Phase II draft report would be posted to the NQF website for Member and public comment within the next several weeks.

Ms. Forman requested that the Steering Committee review the updated Committee response's to the submitted comments from the Public and Member Comment period on the Phase I draft report by August 8, 2011. Additionally, Ms. Forman reminded the Steering Committee members to respond to the availability surveys regarding future conference call dates.