TO: NQF Members and Public

FR: NQF Staff

RE: Pre-Voting review for National Voluntary Consensus Standards for Patient Safety – Complications Endorsement Maintenance

DA: April 12, 2012

The Patient Safety – Complications Endorsement Maintenance project seeks to identify and endorse measures that specifically address complications of health care for accountability and quality improvement in all settings of care. In addition, NQF-endorsed patient safety consensus standards that were endorsed prior to 2009 are undergoing maintenance review.

A 26-member Steering Committee representing a range of stakeholder perspectives was selected to evaluate 5 newly submitted measures and 45 measures undergoing maintenance review against NQF's measure evaluation criteria. These measures are being considered in two phases – the current phase includes 26 measures undergoing maintenance review. The Steering Committee recommended 15 measures for endorsement, and four measures were withdrawn by their measure stewards.

On March 19, 2012, the 30-day comment period concluded for the measures under consideration in the draft report *National Voluntary Consensus Standards for Patient Safety – Complications Endorsement Maintenance: Phase I.* NQF received 61 comments from a variety of stakeholders, including 8 member organizations and 3 organizations and individuals who are not NQF members. The commenting organizations (Table 1) represent a variety of stakeholders:

Consumers – 0	Purchasers – 1
Professionals – 1	Health Plans - 2
Providers – 1	Public & Community Health - 1
QMRI – 0	Supplier and Industry - 2
Non-NQF member organizations - 2	Individuals – 1

Measure developer responses

The measure developers were asked to respond to comments that pertain to the measure specifications, evidence, data collection, implementation, etc. The responses have been entered into the comment table provided to the Committee.

COMMENTS AND THEIR DISPOSITION

Comments related to specific measure specifications were forwarded to appropriate measure developers, who were invited to respond. In some cases, comments were submitted on two or more related measures; in the summary below we have presented the comments and responses on those related measures together.

0022 - Use of High Risk Medications in the Elderly

Comments on this measure focused on the potential incorporation of the American Geriatrics Society's updated Beers Criteria for Potentially Inappropriate Medication Use in Older Adults. Two commenters advocated harmonizing the measure with the updated Beers Criteria, while one commenter suggested

delaying incorporation of the updated Criteria until they have been subject to further expert review and public comment.

Developer response: Thank you for your feedback. This measure is currently under re-evaluation by NCQA and we have specified the measure to align with the updated 2012 Beers criteria developed by the American Geriatric Society. The measure has completed NCQA's public comment, and will be presented to the Committee on Performance Measurement in May 2012, for approval. If approved by CPM and the NCQA Board of Directors the measure will be included in HEDIS 2013. We will update the NQF measure specifications, accordingly.

ACTION TAKEN: The Steering Committee discussed its options with regard to recommendation of measure 0022 and decided to maintain its recommendation of the measure as currently written, with the assumption that the measure will be updated when NCQA has completed its approval process. At that time, it will be reconsidered by NQF as part of an annual update or ad hoc review.

0349 - Transfusion Reaction (PSI 16) 0350 - Transfusion Reaction (PDI 13)

One commenter expressed concern about the Steering Committee's decision to recommend these measures for 'reserve' status and requested that more information on this status be included on the NQF website.

Staff note: The criteria for endorsement with reserve status are on the <u>NQF web site</u> and further clarification has been added. The use of endorsement with reserve status is by exception and measures must demonstrate the following:

- Evidence of little opportunity for improvement (1b), i.e., overall high level of performance with little variation. When assessing measure performance data for opportunity for improvement, the following factors should be considered:
 - o distribution of performance scores;
 - number and representativeness of the entities included in the measure performance data;
 - o data on disparities; and
 - size of the population at risk, effectiveness of an intervention, likely occurrence of an outcome, and consequences of the quality problem.
- Evidence for measure focus (1c) high rating as described in the Evidence Task Force report. There should be strong direct evidence of a link to a desired health outcome; therefore, there would be detrimental consequence on patient health outcomes if performance eroded. Generally measures more distal to the desired outcome have only indirect evidence of influence on the outcome and would not qualify for reserve endorsement status.
- For process and structure measures, the measure focus should be proximal to the desired outcome. Generally, measures more distal to the desired outcome would not be eligible for reserve status.

- Reliability (2a) high rating as described in the Measure Testing Task Force report. Reliability has been demonstrated for both the data elements and measure scores.
- Validity (2b) high rating as described in the Measure Testing Task Force report. Validity has been demonstrated for both data elements and the measure score (face validity not acceptable).
- • The reason for high levels of performance is better performance, not an issue with measure construction/specifications (e.g., "documentation").
- • Demonstrated usefulness for improving quality (e.g., data on trends of improvement and scope of patients and providers included).
- • Demonstrated use of the measure (e.g., specific programs and scope of patients and providers included; would not grant inactive endorsement status for a measure that has not been used).

ACTION TAKEN: The Committee determined that the measures continue to meet the guidance for recommending reserve status and did not change its recommendations.

0362 - Foreign Body Left After Procedure (PDI 3) 0363 - Foreign Body Left During Procedure (PSI 5)

A commenter questioned the need for separate measures for the pediatric and adult populations, requesting that these measures be combined into a single rate. Another commenter questioned measure 0363's reliability, arguing that the high number of cases needed to produce reliable results would not be attained by many hospitals. One commenter also highlighted an issue noted by the Steering Committee, which is that the current versions of these measures do not distinguish between retained bodies, unintended retained bodies, and device malfunctions.

Developer response: Technically there is no denominator for these indicators as they are expressed as counts. The original rationale for reporting the counts separately for adult and pediatric populations was to increase the focus on the pediatric population.

The indicator is reported as a count, rather than a rate, so reliability in the sense discussed in the CMS study is not an issue. Note also that the measure requires data on present on admission (POA) to address false positives due to a foreign body from a previous encounter

In addition to the ICD-10 specification, note also that in v4.5 of the AHRQ QI software then intention is to rename the measures "Retained surgical item or un-retrieved device fragment"

ACTION TAKEN: The Committee was satisfied with the developer's responses and did not change its endorsement recommendation.

0371 - Venous Thromboembolism Prophylaxis 0372 - Intensive Care Unit Venous Thromboembolism Prophylaxis

One commenter requested that each of these measures be split out to address surgical and non-surgical patients separately. This commenter also suggested that the measure should separate reporting of anticoagulation prophylaxis from reporting of mechanical prophylaxis, and recommended discerning between *adequate* prophylaxis and *any* prophylaxis. Another commenter cautioned against encouraging VTE prophylaxis in individuals whose risk of bleeding exceeds the risk of thrombosis. In addition, a commenter argued that measure 0371 should reflect prophylaxis across the patient stay, rather than only upon admission to the hospital or transfer to the ICU.

Developer response: Adequate prophylaxis is individualized for each patient scenario. Stratification treatment based on risk assessment is a consideration, however, consensus regarding a standard risk assessment tool or method has not yet been reached. This measure has been specified to collect data in the designated time frame to reduce abstractor burden. These current paper-based measures have been specified to collect data in the designated time frame in order to reduce abstractor burden. Electronic specifications for these measures have been developed and the measures have been included as clinical quality measures for Stage 1 of Meaningful Use.

ACTION TAKEN: The submitted comments prompted a Steering Committee discussion regarding "adequate" or "effective" prophylaxis, among other issues. A number of Committee members voiced concerns about the measures' acceptance of mechanical prophylaxis as a satisfactory means of VTE prevention. Many members stated that the evidence supported the use of mechanical prophylaxis only if pharmacological prophylaxis is contraindicated. Yet as currently specified, mechanical prophylaxis would satisfy measure 0371 even if pharmacological prophylaxis is not contraindicated, which some Committee members interpreted as being inconsistent with the most recent American College of Physicians (ACP) and American College of Chest Physicians (ACCP) guidelines. ACP and ACCP guidelines also recommend administration of prophylaxis only if the benefits outweigh the risks. Because there is currently no validated tool for VTE risk-assessment, some Committee members were hesitant to recommend a measure that may encourage VTE prophylaxis in lower-risk patients. For this reason, the Committee was more comfortable with measure 0372, which applies to the higher-risk population of patients in the ICU. In addition, some Committee members agreed that administration of prophylaxis should be measured across the patient stay, and that a single order or day of administration, which is how the measures are currently specified, was not necessarily reflective of quality care. In general, the Committee viewed the measures as being useful for internal quality improvement efforts, but were concerned that publicly-reported performance on the measures may not lead to valid judgments regarding the quality of care. The Steering Committee agreed to hold a reconsideration vote on the measures; upon reconsideration, measure 0372 was recommended for endorsement, but measure 0371 was not recommended. Final Steering Committee voting results are available in the draft report.

0374 - Venous Thromboembolism Patients Receiving Unfractionated Heparin with Dosages/Platelet Count Monitoring by Protocol or Nomogram

0375 - Venous Thromoboembolism Warfarin Therapy Discharge Instructions

Commenters questioned the Steering Committee's decision not to recommend endorsement of these measures, arguing that they are important and encourage best practices on important patient safety issues. One commenter expressed particular concern about removal of endorsement for these measures considering that they have been incorporated into meaningful use requirements for electronic health records. Another commenter requested further explanation of the Committee's reasons for not recommending the measures.

ACTION TAKEN: The Committee carefully considered the potential benefits of both of these measures, holding an extensive discussion on the importance of monitoring patients on unfractionated heparin and of communicating appropriate information to patients being discharged on Warfarin. However, the Committee struggled with the relatively weak connection between the processes being measured and the desired outcomes in these instances. Committee members emphasized that measuring whether or not a nomogram is used does not capture the more important question of whether a patient's partial thromboplastin time (PTT) is brought within a therapeutic range. Indeed, Committee members pointed out that use of a nomogram frequently does not lead to achievement of therapeutic range. Similarly, measuring whether patients receive discharge instructions for Warfarin therapy does not capture the quality of those instructions, nor does it capture whether patients comprehend the instructions and will make behavioral changes as a result. The Committee noted the lack of evidence showing a link between the provision of written instructions and improved outcomes, and expressed concern about burdening providers with implementation of measures that have not been shown to improve patient outcomes.

0376 - Incidence of Potentially Preventable Venous Thromboembolism

One commenter suggested that this measure should be restricted to non-surgical patients, and a number of commenters expressed concern that use of the present on admission indicator could exclude patients who acquired VTE as a result of a previous hospital admission. Commenters recommended that "potentially preventable" events be restricted to those patients who received prophylaxis *according to the institutional protocol* in order to capture instances of inadequate prophylaxis, and suggested that only pulmonary embolism and lower extremity DVT be included, as upper extremity or abdominal DVT may be less amenable to prevention by prophylaxis.

Comments also included a suggestion to incorporate length of stay criteria to further differentiate patient populations, and a recommendation that measures 0376 and 0450 be harmonized.

Developer response: Due to the fact that standardized risk assessment and standardized protocols for VTE Prophylaxis have not been widely endorsed, this measure evaluates the use of any prophylaxis used to be adequate, leaving the method of prophylaxis decision making up to the care provider. The population used for this measure consists of discharges with an ICD-9-CM Other Diagnosis Codes of VTE as defined in Appendix A, Table 7.03 or 7.04 [in the measure submission]. This includes all populations, including surgical patients that are not populated into the SCIP-VTE 1 measure. Without the use of an Electronic Health System, prior hospitalization data is not available to the present organization

in question. The technical advisory panel felt that a greater population of potentially preventable VTE be included in this measure, as this provides valuable data on all VTEs for the organization to use in a process improvement plan.

This measure targets those patients who have developed VTE while hospitalized in order to assess whether VTE prophylaxis was instituted prior to the development of the VTE. Presumably, organizational performance assessment activities performed when investigating measure results would identify if VTE development was as a result of antecedent events immediately prior to hospitalization.

ACTION TAKEN: After reviewing the comments and the developer's response, the Steering Committee revisited its decision on this measure and held further discussion on the measure's strengths and weaknesses. Committee members agreed that identification of patients with hospital-acquired VTE was a good idea, and that looking back to determine whether adequate prophylaxis was given could be useful for internal quality improvement efforts. However, the Committee was concerned about use of the measure for accountability purposes as the measure looks retrospectively at the care of patients who have developed VTE and determines whether prophylaxis was provided in those cases. Committee members were not convinced that the measure reflects truly preventable events, and many believed that it would be better to have a risk-adjusted outcome measure. In addition, Committee members believed that the measure would be labor-intensive for providers and that it would be difficult to capture data in a consistent fashion given its reliance on the review of paper medical records. The Steering Committee decided to hold a reconsideration vote after the call; upon reconsideration, measure 0376 was not recommended for endorsement. Final voting results are available in the draft report.

0419 - Documentation of Current Medications in the Medical Record

One commenter requested clarification on whether this measure applies to hospitals, while another suggested that the measure include patient acknowledgement of the medication list's accuracy. Other comments were supportive of the Steering Committee's recommendation for endorsement.

Developer response: NQF Measure #0419 does not include the acute care (hospital) setting in the denominator and therefore, does not apply to hospitals. Quality Insights appreciates the suggestion made by the commenter regarding patient acknowledgement as a means to engage and empower the patient in developing a partnership with their health care provider. We will consider adding this language to the measure's description.

ACTION TAKEN: The Steering Committee considered the commenters' suggestions, but believed that the measure already implies confirmation of the medication list's accuracy with the patient. Moreover, Committee members agreed with the developer that requiring documentation of patient acknowledgement of the medication list's accuracy would reduce the measure's reliability. The Steering Committee agreed to maintain its recommendation of the measure as currently written.

0450 - Postoperative Pulmonary Embolism or Deep Vein Thrombosis Rate (PSI 12)

Some commenters suggested that measures 0376 and 0450 should be harmonized or that only one of the measures should be endorsed. As with measure 0376, a number of commenters recommended that only pulmonary embolism and lower extremity DVT should be included, as upper extremity or abdominal DVT may be less amenable to prevention by prophylaxis. Commenters also reiterated the concern that use of the present on admission indicator could exclude patients who acquired VTE as a result of a previous hospital admission.

Another commenter requested consideration of other risk factors for DVT (such as dementia, frailty, or high risk for falls), and suggested that the measure be limited to post-surgical situations where there is clear evidence of positive improvement from anticoagulation.

Developer response: 0450 excludes cases from the denominator "with principal diagnosis of deep vein thrombosis or pulmonary embolism or secondary diagnosis present on admission." New ICD-9-CM codes implemented in FY 2010 capture superficial, upper extremity, and chronic venous thromboses; such cases are no longer included in the numerator. The POA data and new coding increased the positive predictive value (PPV) for this measure as confirmed in medical record review; these results were shared with the Steering Committee.

We agree that using linked discharged data may result in improved sensitivity of this measure. We appreciate these suggestions and will consider them in future development. We also agree that combined process-outcome composite measure might be useful for quality improvement; providers would focus on prophylaxis to the degree that there is a performance gap, while retaining an outcomes focus on other dimensions of performance.

The risk adjustment model does include a broad set of conditions and comorbidities as covariates. Those risk factors that had explanatory power where included in the model. However, we appreciate the input and will review the existing model for potential refinements. There is a separate measure for postoperative hemorrhage or hematoma (PSI #9) that might capture how well providers address this tradeoff.

ACTION TAKEN: Regarding harmonization, The Joint Commission clarified for the Steering Committee that measure 0376 should properly be understood as a process measure – the measure looks retrospectively at the care of patients who have developed VTE and determines whether prophylaxis was provided in those cases. In contrast, measure 0450 is an outcome measure, measuring providers' rates of PE or DVT. For this reason, the Steering Committee does not believe that harmonization of these measures is required.

The Committee did not agree that dementia, frailty, and falls were risk factors for DVT, so did not think that those factors needed to be incorporated into the measure. Committee members were satisfied with the developer's assurances that the measure is limited to acute lower extremity DVT and PE. The Committee acknowledged that the potential exclusion of patients who acquired VTE as the result of a previous admission was a limitation of the measure, but did not feel that this warranted reversal of the Committee's recommendation of the measure for endorsement.

0523 - Pain Assessment Conducted 0524 - Pain Interventions Implemented During Short Term Episodes of Care

One commenter requested continued endorsement of these measures, contending that, despite their flaws, the measures generate valuable information and encourage attention to and assessment of pain in home health care. Another commenter was supportive of the Steering Committee's recommendation to remove endorsement. The measure developer requested clarification on the assessment of the measure against all of NQF's evaluation criteria, suggesting that its previous endorsement with time-limited status should limit the Steering Committee's evaluation to the Scientific Acceptability criterion, and specifically the measure testing results.

NQF staff note: While these measures were previously endorsed as time-limited, they were included in this project to undergo a full endorsement maintenance review as they had been endorsed for two and a half years. As a result, the Committee was asked to and did complete evaluations of the two measures against all of the measure evaluation criteria.

ACTION TAKEN: As with measures 0374 and 0375, the Steering Committee had significant concerns about the proximity of the processes being measured by 0523 and 0524 and the relevant outcomes. Committee members again expressed their reluctance to burden providers with measures that are not directly linked to better patient outcomes and did not reconsider their initial decision to not recommend the measures.

VOTING

Information for electronic voting has been sent to NQF member organization primary contacts. Accompanying comments must be submitted via the online voting tool.

Please note that voting concludes on April 26, 2012 at 6:00 pm ET. There are no exceptions.

Thank you.

NATIONAL VOLUNTARY CONSENSUS STANDARDS: PATIENT SAFETY – COMPLICATIONS ENDORSEMENT MAINTENANCE: PHASE I

DRAFT TECHNICAL REPORT FOR VOTING April 12, 2011

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PATIENT SAFETY MEASURES – COMPLICATIONS ENDORSEMENT MAINTENANCE: PHASE I Draft Technical Report

INTRODUCTION

Americans are exposed to more preventable medical errors than patients in other industrialized nations. It's estimated that preventable errors cost the United States \$17-\$29 billion per year in healthcare expenses, lost worker productivity, and disability. The costs are passed on in a number of ways—premiums, taxes, lost work time and wages, and health threats, to name a few. Proactively addressing medical errors and unsafe care will protect patients from harm and lead to more affordable, effective, and equitable care.

The Patient Safety Measures - Complications Endorsement Maintenance project will be executed in two phases, each addressing a number of specific complication-related domains. The first phase will focus on medication safety, venous thromboembolism, surgery, and care coordination, while the second phase will focus on falls, pressure ulcers, healthcare associated infections, and mortality. The Complications project builds on the work an earlier Patient Safety Measures project launched in 2009, which focused on healthcare-associated infections and radiation safety, among other issues. Endorsement maintenance provides the opportunity to harmonize specifications and to ensure that an endorsed measure represents the best in class. Composite and outcome measures and measures sensitive to the needs of vulnerable populations, including racial/ethnic minorities and Medicaid populations, were a priority.

MEASURE EVALUATION

On December 15-16, 2011, the Patient Safety - Complications Steering Committee evaluated one new measure and twenty four measures undergoing maintenance review against NQF's standard evaluation criteria. To facilitate the evaluation, the committee and candidate standards were divided into four workgroups for preliminary review of the measures against the evaluation sub-criteria prior to consideration by the entire Steering Committee. The Committee's discussion and ratings of the criteria are summarized in the evaluation tables beginning on page 5.

	MAINTENANCE	NEW	TOTAL
Measures under consideration	27	0	27
Withdrawn from consideration	4	1	5
Recommended	15	0	15
Not recommended	7	0	7
Reasons for Not	Importance – 4		
Recommending	Scientific Acceptability – 1		
	Overall – 2		
	Competing measure – 0		

PATIENT SAFETY - COMPLICATIONS

Overarching Issues

During the Steering Committee's discussion of the measures, several overarching issues emerged that were factored into the Committee's ratings and recommendations for multiple measures and are not repeated in detail with each individual measure:

Current Evidence and Relationship to Outcomes

The Committee expressed its preference for measures that provide clear and direct evidence of the measure's proximity to an improved outcome. Ensuring that the evidence provided to support the measure is current was highlighted, particularly for measures undergoing maintenance. In addition, several of the measures were focused on processes of care and discussions centered on whether what was measured truly was proximal to outcomes. This concern is reflected in the evaluation and underlying rationale for supporting a measure or not.

Impact on Quality

The Committee suggested measure developers provide detail on how their measure(s) impact quality. The Committee considered such information important when deciding whether a measure should be endorsed.

Measure with a Limited Performance Gap

The Committee suggested that the two Transfusion Reaction measures, which are similar but focus on different patient populations, have been performing at such high levels that continued efforts to publicly report on performance may not be warranted. They agreed that these measures should be maintained in the NQF portfolio with 'Reserve Status' designation, as they continue to address a critical aspect of patient safety and quality that should be sustained. The measures also fully meet all endorsement criteria with the exception of importance (as long as failure to meet this criterion was due to a high level of performance). The Committee acknowledged that placing these measures in 'reserve' could lead to the unintended consequence of inattention to the relevant processes or outcomes and consequently to potentially reduced levels of performance and poor patient outcomes. However, Committee members agreed that the 'Reserve Status' measures should be reviewed and reassessed in subsequent endorsement cycles to ensure that the performance remains at consistently high levels.

Continuum of Care

The Committee noted gaps in care that could be improved by addressing the patient's treatment across multiple settings of care. Committee members noted that aspects of a patient's condition should be reassessed when they are admitted to other departments within a healthcare facility and upon each interaction with a provider in an outpatient setting. Several of the measures under review were limited in their scope to a specific setting. This limitation was due to the focus of the developer and data source but when viewed from a patient-centered approach they should be broadened. The Committee suggested that when measures undergo the next maintenance cycle, to the extent possible, developers should focus on expanding the measure's scope.

Counts versus Rates

The Committee debated the usefulness of reporting rare but serious events, specifically related to several measures submitted by the Agency for Healthcare Research and Quality (AHRQ), in the form of counts or rates. While counts provide a more detailed breakdown of the data, rates may be more applicable for comparisons across settings and more useful to consumers. The Committee recognized that in these circumstances healthcare facilities may have no safety events captured by the measures, but stressed that continued monitoring of performance is necessary to improve quality and encourage transparency.

Discussion on Patient Safety Indicators (PSIs) and Pediatric Safety Indicators (PDIs)

Because most of the corresponding PSIs and PDIs are identical except for the population covered, the Committee often discussed both together. The rationales and information provided only vary when there was a separate concern given the patient population.

Discussion of Related and Competing Measures

The Steering Committee reviewed a number of previously-endorsed measures (0097, 0554, and 0646) that had been identified as related to and potentially competing with measure 0419. In general, the Committee saw the measures as related but not competing, and agreed that in the future they would like to see a single medication reconciliation measure that applies across populations, settings, and care transitions.

RECOMMENDATIONS FOR FUTURE MEASURE DEVELOPMENT

- 1. Wound care measures:
 - Vascular screening for patients with existing leg ulcers
 - Adequate venous compression for patients with existing venous leg ulcers
 - Adequate offloading patients with diabetic foot ulcers
 - Adequate support surface for patients with stage III-IV pressure ulcers
- 2. Obstetric measures:
 - Induction and augmentation of labor
 - Outcomes of neonatal birth injury
- 3. Infection measures:
 - Clostridium difficile colitis is epidemic in US and should be measured.
 - Vascular catheter infections in other settings including--dialysis catheters, home infusion, peripherally inserted central catheter lines; nursing home catheters
- 4. Equipment related injury:
 - Monitoring of product related events
- 5. Information technology:
 - EHR programming related errors
- 6. The expectation for physical mobility among hospitalized adults:
 - The severity of the inactivity among people who are hospitalized was described in this article: Brown CJ, Redden DT, Flood KL, Allman RM. The under recognized epidemic of low mobility during hospitalization of older adults. *J Am Geriatr* Soc. 2009;57(9): 1660-1665 (see http://onlinelibrary.wiley.com/doi/10.1111/j.1532-5415.2009.02393.x/full). There are extensive adverse effects associated with prolonged bed rest and much of these adverse effects are preventable with daily activity.

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MEASURES RECOMMENDED

0022 Use of High Risk Medications in the Elderly
Measure Submission Form
Description: a: Percentage of Medicare members 65 years of age and older who received at least one high-risk medication.
b: Percentage of Medicare members 65 years of age and older who received at least two different high-risk medications. For both rates,
a lower rate represents better performance.
Numerator Statement: a: At least one prescription dispensed for any high-risk medication during the measurement year.
b: At least two prescriptions dispensed for different high-risk medications during the measurement year.
Denominator Statement: All patients ages 65 years and older as of December 31 of the measurement year.
Exclusions: N/A
Adjustment/Stratification: No risk adjustment or risk stratification N/A N/A
Level of Analysis: Health Plan
Type of Measure: Process
Data Source: Administrative claims, Electronic Clinical Data, Electronic Clinical Data : Pharmacy Healthcare Effectiveness Data and
Information Set (HEDIS)
Measure Steward: National Committee for Quality Assurance
STEERING COMMITTEE MEETING 12/15-16/2011
1. Importance to Measure and Report: Y-19; N-3
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)
1a. Impact: H-6; M-1; L1-; I-0; 1b. Performance Gap: H-6; M-1; L-0; I-1
1c. Evidence Quantity: H-5; M-1; L-1; I-1; Quality: H-4; M-2; L-1; I-1; Consistency: H-5; M-1; L-1; I-1

0022 Use of High Risk Medications in the Elderly
<u>Rationale</u> : The measure focuses on medications that are known to cause harm or lead to adverse events in the elderly. The literature cited, including the 2003 Beers criteria, provides further evidence for the measure's focus. The committee and developer acknowledged that the American Geriatrics Society is currently reviewing and updating the list of medications and the measure will be updated to reflect those changes when they are released.
2. Scientific Acceptability of Measure Properties: Y-22; N-0
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity) 2a. Reliability: H-5; M-3; L-0; I-0; 2b. Validity: H-4; M-4; L0-; I-0
Rationale: The measure is well specified and the denominator is clear.
3. Usability: H-9; M-12; L-1; I-0
(<i>Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement</i>) 3a. Public Reporting: H-4; M-4; L-0; I-0 3b. QI: H-4; M-4; L-0; I-0
Rationale: The measure will be useful for patient safety and provide valuable information to consumers.
 4. Feasibility: H-8; M-13; L-1; I-0 (4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences identified 4d. Data collection strategy can be implemented) 4a. Byproduct of Care Processes: H-5; M-1; L-1; I-0 4b. Electronic data sources: H-5; M-1; L-1; I-0 4c. Suscep inaccuracies, consequences: H-5; M-1; L-1; I-0
4d. Data collection strategy: H-5; M-1; L-1; I-0
Rationale: The measure may need to be updated in the future to accommodate any changes in medication monitoring or remove any medications that are no longer available. The developer indicated that it would be reviewed frequently.
Steering Committee Recommendation for Endorsement: Y-20; N-2
Dationale: The measure would inform national cafety efforts and the consumer. It represents a major national safety initiative
Rationale: The measure would inform patient safety efforts and the consumer. It represents a major patient safety initiative. Public and Member Comment
Comments included:
Requests for incorporation of the updated AGS Beers Criteria
Request to delay incorporation of the updated Beers Criteria pending further expert review and public comment
The Steering Committee discussed its options with regard to recommendation of measure 0022 and decided to maintain its recommendation of the measure as currently written, with the assumption that the measure will be updated when NCQA has completed its approval process. At that time, it will be reconsidered by NQF as part of an annual update or ad hoc review.
Developer response: Thank you for your feedback. This measure is currently under re-evaluation by NCQA and we have specified the measure to align with the updated 2012 Beers criteria developed by the American Geriatric Society. The measure has completed NCQA's public comment, and will be presented to the Committee on Performance Measurement in May 2012, for approval. If approved by CPM and the NCQA Board of Directors the measure will be included in HEDIS 2013. We will update the NQF measure specifications, accordingly.
0419 Documentation of Current Medications in the Medical Record Measure Submission Form
Description: Percentage of patients aged 18 years and older with a list of current medications (includes prescription, over-the-counter, herbals, vitamin/mineral/dietary [nutritional] supplements) documented by the provider, including drug name, dosage, frequency and route
Numerator Statement: Current medications including name, dosage, frequency and route documented by the provider Denominator Statement: All patients aged 18 years and older on date of patient encounter Exclusions: Not Eligible – A patient is not eligible if one or more of the following condition(s) exist:

Patient refuses to participate Patient is in an urgent or emergent medical situation where time is of the essence and to delay treatment would jeopardize the

INATIONAL QUALITY FORUM
0419 Documentation of Current Medications in the Medical Record
patient's health status
Patient cognitively impaired and no authorized representative available
Adjustment/Stratification: No risk adjustment or risk stratification. N/A No stratification. All eligible patients are subject to the same
numerator criteria.
Level of Analysis: Clinician : Individual, Population : National
Type of Measure: Process
Data Source: Administrative claims, Electronic Clinical Data : Registry Medicare Part B claims data
Measure Steward: Centers for Medicare & Medicaid
STEERING COMMITTEE MEETING 12/15-16/2011
1. Importance to Measure and Report: Y-19; N-2
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)
1a. Impact: H-6; M-0; L2-; I-0; 1b. Performance Gap: H-6; M-0; L-2; I-0
1c. Evidence Quantity: H-1; M-3; L-3; I-1; Quality: H-1; M-3; L-3; I-1; Consistency: H-1; M-4; L-2; I-1
Rationale: The Committee affirmed the importance of the measure's goals: to prompt discussions between physicians and patients, to
increase knowledge of patients' medical histories, and to reduce adverse drug events. The Committee also discussed the importance of
medication reconciliation in general. Since reporting on this measure is voluntary, the Committee noted that it is not possible to clearly
define the performance gap but current rates demonstrate a gap for just documentation of current medications in the medical record.
2. Scientific Acceptability of Measure Properties: Y-15; N-5
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity)
2a. Reliability: H-0; M-4; L-4; I-0; 2b. Validity: H-0; M-5; L-3; I-0
Rationale: The Committee had several concerns related to whether the specifications were precise and understandable and whether the
results would be valid. The Committee was concerned that it would be difficult to effectively document a patient's vitamin and over-the-
counter medication use. The Committee requested that the developer clarify language in the measure to focus on whether a medical
history was taken and a patient's medications were documented rather than the creation of a current and complete medication list.
Committee members suggested that the measure should be rewritten to more clearly reflect that providers are being measured on
whether patients were asked about their medications on each visit. Concerns regarding the validity of the data were discussed. The
measure currently asks the provider to report on whether they have current medications documented in the medical record but it is not
known whether what is documented actually is what the patient is taking and if any were missed.
3. Usability: H-7; M-7; L-5; I-1
(Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement)
3a. Public Reporting: H-1; M-4; L-3; I-0
3b. QI: H-1; M-4; L-2; I-0
Rationale: Recognizing that the measure is currently being used in both public reporting and quality improvement programs, the Steering
Committee agreed that the measure meets the usability criterion.
4. Feasibility: H-2; M-11; L-6; I-1
(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences
identified 4d. Data collection strategy can be implemented)
4a. Byproduct of Care Processes: H-3; M-3; L-2; I-0
4b. Electronic data sources: H-1; M-3; L-4; I-0
4c. Suscep inaccuracies, consequences: H-0; M-5; L-2; I-1
4d. Data collection strategy: H-1; M-4; L-2; I-0
Rationale: The measure is currently being collected and no concerns with feasibility were raised.
Steering Committee Recommendation for Endorsement: Y-14; N-6
Rationale : The Steering Committee agreed that documentation of patients' current medications is an area where there is a great need
and opportunity for improvement. Many Committee members stated that they would prefer an outcome measure in this area but
acknowledged that no such measure existed, and agreed that in the absence of an outcome measure that correlates with reconciliation,
this measure was a good starting point. The Steering Committee also reviewed a number of medication reconciliation measures (0097,
0554, and 0646) that had been identified as related and potentially competing with measure 0419. In general, the Committee saw the
measures as related but not competing, and agreed that in the future they would like to see a single medication reconciliation measure
that applies across populations, settings, and care transitions.
Public and Member Comment
Comments included:
• A request for clarification on the measure's applicability to bespitals

• A request for clarification on the measure's applicability to hospitals

0419 Documentation of Current Medications in the Medical Record

• A suggestion that the measure include patient acknowledgement of the medication list's accuracy

The Steering Committee considered the commenters' suggestions, but believed that the measure already implies confirmation of the medication list's accuracy with the patient. Moreover, Committee members agreed with the developer that requiring documentation of patient acknowledgement of the medication list's accuracy would reduce the measure's reliability. The Steering Committee agreed to maintain its recommendation of the measure as currently written.

Developer response: NOF Measure #0419 does not include the acute care (hospital) setting in the denominator and therefore, does not apply to hospitals. Quality Insights appreciates the suggestion made by the commenter regarding patient acknowledgement as a means to engage and empower the patient in developing a partnership with their health care provider. We will consider adding this language to the measure's description.

0372 Intensive Care Unit Venous Thromboembolism Prophylaxis

Measure Submission Form

Description: This measure assesses the number of patients who received venous thromboembolism (VTE) prophylaxis or have documentation why no VTE prophylaxis was given the day of or the day after the initial admission (or transfer) to the Intensive Care Unit (ICU) or surgery end date for surgeries that start the day of or the day after ICU admission (or transfer). This measure is part of a set of six prevention and treatment measures that address VTE (VTE-1: VTE Prophylaxis, VTE-3: VTE Patients with Anticoagulation Overlap Therapy, VTE-4: VTE Patients Receiving UFH with Dosages/Platelet Count Monitoring by Protocol, VTE-5: VTE Warfarin Therapy Discharge Instructions and VTE-6: VTE Incidence of Potentially-Preventable VTE). Numerator Statement: Patients who received VTE prophylaxis or have documentation why no VTE prophylaxis was given: •the day of or the day after ICU admission (or transfer) •the day of or the day after surgery end date for surgeries that start the day of or the day after ICU admission (or transfer) Denominator Statement: Patients directly admitted or transferred to ICU Exclusions: •Patients less than 18 years of age •Patients who have a hospital length of stay (LOS) less than two days and greater than 120 days •Patients with Comfort Measures Only documented on day of or day after hospital arrival •Patients enrolled in clinical trials •Patients with ICU LOS less than one day without VTE prophylaxis administered and documentation for no VTE prophylaxis •Patients with ICD-9-CM Principal or Other Diagnosis Code of Obstetrics or VTE as defined in Appendix A, Table 7.02, 7.03, or 7.04 •Patients with ICD-9-CM Principal Procedure Code of Surgical Care Improvement Project (SCIP) VTE selected surgeries as defined in Appendix A, Tables 5.17, 5.19, 5.20, 5.21, 5.22, 5.23, 5.24 that start the day of or the day after ICU admission or transfer Adjustment/Stratification: No risk adjustment or risk stratification. Not applicable Not Applicable, the measure is not stratified. Level of Analysis: Facility, Population : National Type of Measure: Process Data Source: Administrative claims, Electronic Clinical Data, Paper Records Each data element in the data dictionary includes suggested data sources. The data are collected using contracted Performance Measurement Systems (vendors) that develop data collection tools based on the measure specifications. The tools are verified and tested by Joint Commission staff to confirm the accuracy and conformance of the data collection tool with the measure specifications. The vendor may not offer the measure set to hospitals until verification has been passed. Measure Steward: The Joint Commission STEERING COMMITTEE MEETING 12/15-16/2011 1. Importance to Measure and Report: Y-21; N-0 (1a. High Impact: 1b. Performance Gap. 1c. Evidence)

1a. Impact: H-8; M-1; L-0; I-0; 1b. Performance Gap: H-7; M-2; L-0; I-0

1c. Evidence Quantity: H-7; M-2; L-0; I-0; Quality: H-7; M-2; L-0; I-0; Consistency: H-7; M-2; L0-; I-0

<u>Rationale</u>: There is strong evidence for the measure given the population – patients in intensive care units (ICU) and the measure noted an aggregate performance rate of 87.9 %, indicating a potential performance gap of 12.1 %...

2. Scientific Acceptability of Measure Properties: Y-21; N-0

(2a. Reliability - precise specifications, testing; 2b. Validity - testing, threats to validity)

2a. Reliability: H-6; M-3; L-0; I-0; 2b. Validity: H-7; M-2; L-0; I-0

0372 Intensive Care Unit Venous Thromboembolism Prophylaxis

<u>Rationale</u>: The specifications for this measure are similar to Measure #0371 but as was discussed with that measure, while there are limitations to the measure the measure addresses an important population and aspect of care. The populations for this measure and Measure #0371 differ since this measure looks at patients who are admitted to the ICU at any point during the hospitalization, ensuring that patients are assessed when they are at highest risk regardless of whether they were initially assessed at the time of admission (the focus for Measure #0371). In the future, the measure could be improved by also including patients who are transferred out of the ICU since that point in time is not currently captured in the measures under consideration. The measure as specified demonstrated reliable results and face validity was provided.

3. Usability: H-10; M-11; L-0; I-0

(Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement) 3a. Public Reporting: H-8; M-1; L-0; I-0

3b. QI: H-8; M-1; L-0; I-0

<u>Rationale</u>: This measure is part of a VTE measure set that will be implemented nationally in January 2013. While the Committee questioned whether the measure alone will provide useful information to consumers, members agreed that measuring VTE prophylaxis will lead to quality improvement.

4. Feasibility: H-12; M-8; L-1; I-0

(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences identified 4d. Data collection strategy can be implemented)

4a. Byproduct of Care Processes: H-8; M-1; L-0; I-0

4b. Electronic data sources: H-2; M-6; L-1; I-0

4c. Suscep inaccuracies, consequences: H-5; M-4; L-0; I-0

4d. Data collection strategy: H-7; M-1; L-1; I-0

<u>Rationale</u>: Creating a risk assessment model would have made data collection more complicated, which would further limit feasibility. The measure will be reevaluated and updated every six months by the developer.

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

Rationale: The measure recognizes that VTE prophylaxis is an important part of the process of care for a variety of diagnoses and treatment plans. While there are concerns about the implementation and usefulness of the measure, the Committee agreed that this measure addresses a very high risk population and room for improvement exists.

Public and Member Comment

Comments included:

• A request for this measure to be split out to address surgical and non-surgical patients separately

- Suggestion to separate reporting of anticoagulation prophylaxis from reporting of mechanical prophylaxis
- Need greater discernment between adequate prophylaxis and any prophylaxis
- Should not encourage VTE prophylaxis in individuals whose risk of bleeding exceeds the risk of thrombosis
- Measure should reflect prophylaxis across the patient stay, rather than only upon admission to the hospital or transfer to the ICU

The submitted comments prompted a Steering Committee discussion regarding "adequate" or "effective" prophylaxis, among other issues. A number of Committee members voiced concerns about the measure's acceptance of mechanical prophylaxis as a satisfactory means of VTE prevention. Many members stated that the evidence supported the use of mechanical prophylaxis only if pharmacological prophylaxis is contraindicated. Yet as currently specified, mechanical prophylaxis would satisfy this measure even if pharmacological prophylaxis is not contraindicated, which some Committee members interpreted as being inconsistent with the most recent American College of Physicians (ACP) and American College of Chest Physicians (ACCP) guidelines. ACP and ACCP guidelines also recommend administration of prophylaxis only if the benefits outweigh the risks. Because there is currently no validated tool for VTE risk-assessment, some Committee members were hesitant to recommend a measure that may encourage VTE prophylaxis in lower-risk patients. For this reason, the Committee was more comfortable with measure 0372, which applies to the higher-risk population of patients in the ICU, than measure 0371. The Steering Committee agreed to hold a reconsideration vote on the measures.

Developer response: Adequate prophylaxis is individualized for each patient scenario. Stratification treatment based on risk assessment is a consideration, however, consensus regarding a standard risk assessment tool or method has not yet been reached. This measure has been specified to collect data in the designated time frame to reduce abstractor burden. These current paper-based

0372 Intensive Care Unit Venous Thromboembolism Prophylaxis

measures have been specified to collect data in the designated time frame in order to reduce abstractor burden. Electronic specifications for these measures have been developed and the measures have been included as clinical quality measures for Stage 1 of Meaningful Use.

Vote Following Consideration of Public and Member Comments

1. Importance to Measure and Report: Y-17; N-4

2. Scientific Acceptability of Measure Properties: Y-14; N-7

3. Usability: H-5; M-8; L-8; I-0

4. Feasibility: H-6; M-8; L-9; I-0

Steering Committee Recommendation for Endorsement: Y-13; N-10

Rationale: The measure recognizes that VTE prophylaxis is an important part of the process of care for a variety of diagnoses and treatment plans. While there are concerns about the implementation and usefulness of the measure, the Committee agreed that this measure addresses a very high risk population and room for improvement exists.

0373 Venous Thromboembolism Patients with Anticoagulant Overlap Therapy

Measure Submission Form

Description: This measure assesses the number of patients diagnosed with confirmed VTE who received an overlap of Parenteral (intravenous [IV] or subcutaneous [subcu]) anticoagulation and warfarin therapy. For patients who received less than five days of overlap therapy, they should be discharged on both medications and have a Reason for Discontinuation of Overlap Therapy. Overlap therapy should be administered for at least five days with an international normalized ratio (INR) greater than or equal to 2 prior to discontinuation of the parenteral anticoagulation therapy, or INR less than 2 but discharged on both medications or have a Reason for Discontinuation of Overlap Therapy. This measure is part of a set of six prevention and treatment measures that address VTE (VTE-1: VTE Prophylaxis, VTE-2: ICU VTE Prophylaxis, VTE-4: VTE Patients Receiving UFH with Dosages/Platelet Count Monitoring, VTE-5: VTE Warfarin Therapy Discharge Instructions and VTE-6: Incidence of Potentially-Preventable VTE). Numerator Statement: Patients who received overlap therapy: Included Populations: Patients who received warfarin and parenteral anticoagulation: •Five or more days, with an INR greater than or equal to 2 prior to discontinuation of parenteral therapy OR •Five or more days, with an INR less than 2 and discharged on overlap therapy OR ·Less than five days and discharged on overlap therapy OR •With documentation of reason for discontinuation of overlap therapy OR •With documentation of a reason for no overlap therapy Denominator Statement: Patients with confirmed VTE who received warfarin. The target population includes patients discharged with an ICD-9-CM Principal or Other Diagnosis Codes for VTE as defined in Table 7.03 or Table 7.04. Exclusions: •Patients less than 18 years of age •Patients who have a length of stay greater than 120 days Patients with Comfort Measures Only documented Patients enrolled in clinical trials ·Patients discharged to a health care facility for hospice care ·Patients discharged to home for hospice care ·Patients who expired ·Patients who left against medical advice •Patients discharged to another hospital •Patients without warfarin therapy during hospitalization •Patients without VTE confirmed by diagnostic testing Adjustment/Stratification: No risk adjustment or risk stratification; Not Applicable; Not Applicable, the measure is not stratified. Level of Analysis: Facility, Population : National Type of Measure: Process Data Source: Administrative claims, Electronic Clinical Data, Paper Records Each data element in the data dictionary includes suggested data sources. The data are collected using contracted Performance Measurement Systems (vendors) that develop data collection tools based on the measure specifications. The tools are verified and tested by Joint Commission staff to confirm the accuracy and conformance of the data collection tool with the measure specifications. Verification must be completed and passed before the

0272 Vanaus Thrambaambalism Datients with Antiseagulant Quarlan Therany
0373 Venous Thromboembolism Patients with Anticoagulant Overlap Therapy vendor can offer the data collection tool to hospitals.
Measure Steward: The Joint Commission
STEERING COMMITTEE MEETING 12/15-16/2011
1. Importance to Measure and Report: Y-20; N-1
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)
1a. Impact: H-9; M-0; L-0; I-0; 1b. Performance Gap: H-9; M-0; L-0; I-0
1c. Evidence Quantity: H-4; M-4; L-1; I-0; Quality: H-5; M-4; L-0; I-0; Consistency: H-7; M-2; L-0; I-0
Rationale: The measure is based on multiple guidelines, primarily from the American College of Chest Physicians (ACCP), that indicate overlap therapy of heparin and warfarin should be used to reduce a patient's risk of increased hypercoagulability. The body of evidence supports the measure's focus and a clear performance gap remains.
 Scientific Acceptability of Measure Properties: Y-18; N-3 (2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity) Reliability: H-7; M-2; L-0; I-0; 2b. Validity: H-7; M-1; L-1; I-0
<u>Rationale</u> : The Committee was concerned that the timeframes specified in the measure were complex but the testing demonstrated that the measure as specified was reliable and valid. The Committee agreed with the exclusion allowing a clinician to document an explicit reasoning for not discharging with overlap therapy. It was suggested that in the future the settings be expanded to include patients in the emergency room, since a number of patients are not admitted to the hospital.
3. Usability: H-7; M-9; L-5; I-0 (Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement) 3a. Public Reporting: H-8; M-1; L-0; I-0
3b. QI: H-7; M-2; L-0; I-0
<u>Rationale</u> : The measure is part of a VTE measure set that will be nationally implemented in January 2013. 4. Feasibility: H-6; M-9; L-6; I-0
 (4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences identified 4d. Data collection strategy can be implemented) 4a. Byproduct of Care Processes: H-8; M-1; L-0; I-0
 4b. Electronic data sources: H-3; M-4; L-2; I-0 4c. Suscep inaccuracies, consequences: H-5; M-4; L0-; I-0 4d. Data collection strategy: H-6; M-2; L-1; I-0
<u>Rationale</u> : Some members of the Committee expressed concern about how timeframes were defined within the measure and whether the data was feasible to collect. The developer explained that the measure scope and timeframe were specified to ensure that the data would be feasible to capture.
Steering Committee Recommendation for Endorsement: Y-18; N-3
Rationale: The measure will address a lack of knowledge regarding the importance of overlap therapy.
Public and Member Comment
Comments included:
Support of the measure
 Should not encourage VTE prophylaxis in individuals whose risk of bleeding exceeds the risk of thrombosis
<u>Concerns with feasibility of data collection</u>
The Steering Committee agrees that ensuring adequate prophylaxis is important, but acknowledges the difficulty of defining what constitutes "adequate" prophylaxis in different patient scenarios. The Committee believed that concerns with the feasibility of data
collection for the data elements for the measure would be addressed during the testing and implementation of the measure for electronic health records and brought to the NQF for consideration during a future review.
Developer response: Electronic specifications for this measure have been developed and this measure has been included as a clinical guality measure for Stage 1 of Meaningful Use.

0450 Dc	stoperative Pulmonary Embolism or Deep Vein Thrombosis Rate (PSI 12)		
	Submission Form		
-	Description: Percent of discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM codes		
	for deep vein thrombosis or pulmonary embolism in any secondary diagnosis field.		
	Numerator Statement: Discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM codes		
	vein thrombosis or pulmonary embolism in any secondary diagnosis field.		
Denomi	nator Statement: All surgical discharges age 18 and older defined by specific DRGs or MS-DRGs and an ICD-9-CM code for		
	ating room procedure		
	ons: Exclude cases:		
	incipal diagnosis of deep vein thrombosis or pulmonary embolism or secondary diagnosis present on admission		
	a procedure for interruption of vena cava is the only operating room procedure		
	a procedure for interruption of vena cava occurs before or on the same day as the first operating room procedure		
	4 (pregnancy, childbirth, and puerperium)		
	ssing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis		
(DX1=m	nent/Stratification: Statistical risk model. The predicted value for each case is computed using a hierarchical model (logistic		
	on with hospital random effect) and covariates for gender, age (in 5-year age groups), modified CMS DRG, and the AHRQ		
	idity category. The reference population used in the regression is the universe of discharges for states that participate in the		
	tate Inpatient Data (SID) for the years 2008, a database consisting of 42 states and approximately 30 million adult discharges.		
	ected 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		
	(i.e., hospital). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected		
	Itiplied by the reference population rate.		
Age	18 to 24		
Age	25 to 29		
Age	30 to 34		
Age	35 to 39		
Age	40 to 44		
Age	45 to 49		
Age	50 to 59		
Age Age	65 to 74 75 to 79		
Age	80 to 84		
Age	85+		
MDRG	101		
MDRG	102		
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MDRG	511		
MDRG	514		
MDRG	519		
MDRG	601		
MDRG	602		
MDRG	603		

	0450 Postoperative Pulmonary Embolism or Deep Vein Thrombosis Rate (PSI 12)		
MDRG	604		
MDRG	611		
MDRG	701		
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MDRG	801		
MDRG	802		
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MDRG	805		
MDRG	806		
MDRG	807		
MDRG	808		
MDRG	811		
MDRG	815		
MDRG	1001		
MDRG	1003		
MDRG	1006		
MDRG	1101		
MDRG	1102		
MDRG	1103		
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COMORB ALCOHOL COMORB DRUG COMORB DRUG COMORB DEPRESS Not applicable Level of Analysis: Facility Type of Measure: Outcome Data Source: Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. Measure Steward: Agency for Healthcare Research and Quality STEERING COMMITTEE MEETING 12/15-16/2011 1. Importance to Measure and Report: Y-20; N-2 (1a. High Impact: 1b. Performance Gap; 1c. Evidence) 1a. Impact: H-8; M-1; L-0; 10. Performance Gap; 1c. Evidence) 1a. Impact: H-8; M-1; L-0; 10. Performance Gap; 1c. Evidence) 1a. Impact: H-8; M-1; L-0; 10. Di. Performance Gap; 1c. Evidence) 1a. Impact: H-8; M-1; L-0; 10. Di. Performance Gap; 1c. Evidence) 1a. Impact: H-8; M-1; L-0; 10. Di. Performance Gap; 1c. Evidence) 1a. Impact: H-8; M-1; L-0; 10. Di. Performance Gap; 1c. Evidence) 1a. Impact: H-8; M-1; L-0; 10. Di. Performance Gap; 1c. Evidence) 1a. Reliability: H-6; M-2; L-1; 1-1; Cuality; H-3; M-2; L-1; 1-1; Cansistency; H-3; M-2; L-1; 1-1 2a. Reliability: H-6; M-2; L-1; 1-0; 2b. Validity: 1-4; M-2; L-3; 1-0 2a. Reliability: H-6; M-2; L-1; 1-0; 2b. Validity: 1-4; M-2; L-3; 1-0 Rationale: The Committee discussed the measure: in light of new studies provided by AHRQ representatives further indicating the scientific acceptability of the measure: in light of new studies provided by AHRQ representatives further indicating the studies reflected a decrease in false positives captured by the measure. The Committee accepted that the data provided from the studies reflected a decrease in false positives captured by the measure. The Committee data provided from the studies reflected a decrease in false positives captured by the measure. The Committee accepted that the data provided from the studies reflected a decrease in false positives captured by the measure. The Committee data provided from the studies reflected a decrease in false positives that would be indicative of a larger body of evide				
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0450 Postoperative Pulmonary Embolism or Deep Vein Thrombosis Rate (PSI 12) Rationale: The measure indicated an opportunity for improvement and was proven to be scientifically acceptable through new studies, which demonstrated a reduction in the number of false positives captured by the measure. Public and Member Comment Comments included: Only pulmonary embolism and lower extremity DVT should be included Concern that use of the present on admission indicator could exclude patients who acquired VTE as a result of a previous hospital admission Request for consideration of other risk factors for DVT (such as dementia, frailty, or high risk for falls) Request for harmonization with measure 0376 Regarding harmonization, The Joint Commission clarified for the Steering Committee that measure 0376 should properly be understood as a process measure - the measure looks retrospectively at the care of patients who have developed VTE and determines whether prophylaxis was provided in those cases. In contrast, measure 0450 is an outcome measure, measuring providers' rates of PE or DVT. For this reason, the Steering Committee does not believe that harmonization of these measures is required. The Committee did not agree that dementia, frailty, and falls were risk factors for DVT, so did not think that those factors needed to be incorporated into the measure. Committee members were satisfied with the developer's assurances that the measure is limited to acute lower extremity DVT and PE. The Committee acknowledged that the potential exclusion of patients who acquired VTE as the result of a previous admission was a limitation of the measure, but did not feel that this warranted reversal of the Committee's recommendation of the measure for endorsement. Developer response: 0450 excludes cases from the denominator "with principal diagnosis of deep vein thrombosis or pulmonary embolism or secondary diagnosis present on admission." New ICD-9-CM codes implemented in FY 2010 capture superficial, upper extremity, and chronic venous thromboses; such cases are no longer included in the numerator. The POA data and new coding increased the positive predictive value (PPV) for this measure as confirmed in medical record review; these results were shared with the Steering Committee. We agree that using linked discharged data may result in improved sensitivity of this measure. We appreciate these suggestions and will consider them in future development. We also agree that combined process-outcome composite measure might be useful for guality improvement; providers would focus on prophylaxis to the degree that there is a performance gap, while retaining an outcomes focus on other dimensions of performance. The risk adjustment model does include a broad set of conditions and comorbidities as covariates. Those risk factors that had explanatory power where included in the model. However, we appreciate the input and will review the existing model for potential refinements. There is a separate measure for postoperative hemorrhage or hematoma (PSI #9) that might capture how well providers address this tradeoff.

0267 Wrong Site, Wrong Side, Wrong Patient, Wrong Procedure, Wrong Implant

Measure Submission Form

Description: Percentage of ASC admissions experiencing a wrong site, wrong side, wrong patient, wrong procedure, or wrong implant event.

Numerator Statement: ASC admissions experiencing a wrong site, wrong side, wrong patient, wrong procedure, or wrong implant Denominator Statement: All ASC admissions

Exclusions: None

Adjustment/Stratification: No risk adjustment or risk stratification Not applicable The measure is not stratified

Level of Analysis: Facility

Type of Measure: Outcome

Data Source: Paper Records ASC medical records, as well as incident/occurrence reports, and variance reports may serve as data sources. No specific collection instrument is required although the ASC Quality Collaboration has developed a sample data collection instrument that may be used as desired. Facilities may use any collection instrument that allows tracking of all wrong site, wrong side, wrong patient, wrong procedure, and wrong implant events.

0267 Wrong Site, Wrong Side, Wrong Patient, Wrong Procedure, Wrong Implant
Measure Steward: Ambulatory Surgical Center Quality Collaboration STEERING COMMITTEE MEETING 12/15-16/2011
1. Importance to Measure and Report: Y-22; N-0
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)
1a. Impact: H-6; M-1; L-0; I-0; 1b. Performance Gap: H-5; M-2; L-0; I-0
1c. Evidence Quantity: H-4; M-2; L-1; I-0; Quality: H-3; M-3; L-1; I-0; Consistency: H-3; M-4; L-0; I-0
<u>Rationale</u> : The measure provides a way to collect information on a serious reportable event and will improve ambulatory surgical care. The rate for surgeries involving the wrong site, side, patient, procedure or implant ranged from a minimum of 0.00% to a maximum of 0.31%.
2. Scientific Acceptability of Measure Properties: Y-21; N-1
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity) 2a. Reliability: H-5; M-1; L-1; I-0; 2b. Validity: H-5; M-2; L-0; I-0
<u>Rationale</u> : The measure is reported in the ambulatory care setting, increasing the monitoring of wrong site, wrong side procedures beyond the in-patient setting. The Committee suggested that in the future the measure be stratified by procedure and reported as a count to keep it consistent with hospitals' current monitoring practices. Reliability and validity of the measure as specified was demonstrated.
 Usability: H-15; M-6; L-1; I-0 (<i>Meaningful</i>, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement) Public Reporting: H-6; M-1; L-0; I-0 Ql: H-6; M-1; L-0; I-0
<u>Rationale</u> : The measure is currently being collected on a voluntary basis and will be included in CMS' mandatory reporting program beginning October 1, 2012. It is reported on a publicly available website, and in the future the developer will be able to report statistics based on demographics, procedure and state.
 4. Feasibility: H-12; M-9; L-0; I-0 (4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences identified 4d. Data collection strategy can be implemented) 4a. Byproduct of Care Processes: H-5; M-1; L-1; I-0
4b. Electronic data sources: H-2; M-3; L-2; I-0
4c. Suscep inaccuracies, consequences: H-4; M-3; L-0; I-0
4d. Data collection strategy: H-6; M-1; L-0; I-0
Rationale: The measure is effectively collected from manual reviews of paper records.
Steering Committee Recommendation for Endorsement: Y-21; N-1
Rationale : The measure is used to track wrong site, wrong side surgeries in the ambulatory surgery setting b for mandatory reporting on a serious reportable event. The gap in care demonstrates an opportunity for improvement with a maximum rate for surgeries involving the wrong site, side, patient, procedure or implant of 0.31%.
Public and Member Comment
<u>Comments included:</u> <u>• Support for the measure</u>
Comments did not require further Steering Committee action.
0344 Accidental Puncture or Laceration Rate (PDI 1)
Measure Submission Form
Description: Percent of discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code
denoting accidental cut, puncture, perforation, or laceration during a procedure in any secondary diagnosis field.
Numerator Statement: Discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code depoting accidental cut, puncture, perforation, or laceration during a procedure in any secondary diagnosis field

denoting accidental cut, puncture, perforation, or laceration during a procedure in any secondary diagnosis field. **Denominator Statement:** All surgical and medical discharges under age 18 defined by specific DRGs or MS-DRGs.

0344 Accidental Puncture or Laceration Rate (PDI 1)

Exclusions: Exclude cases:

- with principal diagnosis denoting accidental cut, puncture, perforation, or laceration or secondary diagnosis present on admission - normal newborn

- neonate with birth weight less than 500 grams (Birth Weight Category 1)

- MDC 14 (pregnancy, childbirth, and puerperium)

- with ICD-9-CM code for spine surgery

- with missing discharge gender (SEX=missing), age (AGE=missing), guarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

See Pediatric Quality Indicators Appendices:

- Appendix I – Definitions of, Neonate, Newborn, Normal Newborn, and Outborn

- Appendix L – Low Birth Weight Categories

Adjustment/Stratification: Statistical risk model The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) and covariates for gender, birthweight (500g groups), age in days (29-60, 61-90, 91+), age in years (in 5-year age groups), modified CMS DRG and AHRQ CCS comorbities. The reference population used in the regression is the universe of discharges for states that participate in the HCUP State Inpatient Data (SID) for the years 2008, 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). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference population rate. Covariates used in this measures:

MDC

5 MDC 6

MDC 8

MDC 11

MDC 15

MDC OTHER

Procedure Type 2

Procedure Type 3

Procedure Type 4 to 5

Procedure Type 6

Procedure Type 7

*** Risk adjust by risk category (Procedure Type)

1. No therapeutic procedure with any or no diagnostic procedures

2. Only minor therapeutic procedure with any or no diagnostic procedures

3. One major therapeutic without diagnostic procedure

4. One major therapeutic with only minor diagnostic procedure(s)

5. One major therapeutic with major diagnostic procedure(s)

6. Two major therapeutic procedures with any or no diagnostic procedures

7. Three or more major therapeutic procedures with any or no diagnostic procedures; Clinical categories for PDI 1 are based on Major Diagnostic Categories (MDC).

Stratum 1. Eye, ear, nose, mouth, throat, skin, breast, and other low-risk procedures

(MDC 2, 3, 9, 19, 22, 23)

Stratum 2. Thoracic, cardiovascular, and specified neoplastic procedures

(MDC 4, 5, 17)

Stratum 3. Kidney, and male/female reproductive procedures

MDC 11, 12, 13)

Stratum 4. Infectious, immunological, hematological, and ungroupable procedures

(MDC 0/99, 16, 18, 25)

Stratum 5. Trauma, orthopedic, and neurologic procedures

(MDC 1, 8, 21, 24)

Stratum 6. Gastrointestinal, hepatobiliary, and endocrine procedures

(MDC 6, 7, 10)

Level of Analysis: Facility

Type of Measure: Outcome

Data Source: Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for

NATIONAL QUALITY FORUM
0344 Accidental Puncture or Laceration Rate (PDI 1)
Healthcare Research and Quality, Rockville, MD.
Measure Steward: Agency for Healthcare Research and Quality
STEERING COMMITTEE MEETING 12/15-16/2011
1. Importance to Measure and Report: Y-18; N-3
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)
1a. Impact: H-3; M-2; L-1; I-0; 1b. Performance Gap: H-2; M-1; L-3; I-0
1c. Evidence Quantity: H-0; M-3; L-3; I-0; Quality: H-1; M-4; L-1; I-0; Consistency: H-1; M-2; L-3; I-0
Rationale: The Committee recognized that the measure affects small numbers of patients. They agreed that the key problem with
accidental lacerations is those that occur without detection, resulting in a complication.
2. Scientific Acceptability of Measure Properties: Y-18; N- 3
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity)
2a. Reliability: H-2; H-3; L-1; I-0; 2b. Validity: H-;1 M-3; L-2; I-0
<u>Rationale</u> : The Committee noted that the risk adjustment could include additional factors, such as specialty or body part and that the measure's validity was impacted by the reliance on administrative data. The developer stated that work continues to determine if data from laboratories, electronic health records, and other sources could be incorporated into the measure to increase its validity. Coding updates and refinements are continuously made to address the issue and it has improved since the measure was initially developed.
3. Usability: H-3; M-13; L-4; I-0 (Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement)
3a. Public Reporting: H-0; M-4; L-1; I-0
3b. QI: H-1; M-4; L-0; I-0
50. Q1. 11-1, W1-4, E-0, I-0
Rationale: The Committee stated that the measure has been publicly reported for several years.
4. Feasibility: H-8; M-10; L-2; I-0
(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences
identified 4d. Data collection strategy can be implemented)
4a. Byproduct of Care Processes: H-5; M-1; L-0; I-0
4b. Electronic data sources: H-4; M-1; L-1; I-0
4c. Suscep inaccuracies, consequences: H-3; M-3; L-0; I-0
4d. Data collection strategy: H-5; M-1; L-0; I-0
Rationale: Given its reliance on administrative data, the measure is feasible as specified.
Steering Committee Recommendation for Endorsement: Y-19 ; N-2
Rationale: The measure is a useful indicator of quality by monitoring rates of accidental cuts, punctures, perforations, or lacerations
among pediatric patients.
Public and Member Comment
Comments included:
Support for the measure
Comments did not require further Steering Committee action.
0345 Accidental Puncture or Laceration Rate (PSI 15)
Measure Submission Form
Description: Descent of discharges among cases mosting the inclusion and evolusion rules for the denominator with ICD 0. CM cade

Description: Percent of discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code denoting accidental cut, puncture, perforation, or laceration during a procedure in any secondary diagnosis field.

Numerator Statement: Discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code denoting accidental cut, puncture, perforation, or laceration during a procedure in any secondary diagnosis field.

Denominator Statement: All surgical and medical discharges age 18 years and older defined by specific DRGs or MS-DRGs. Exclusions: Exclude cases:

- with principal diagnosis denoting accidental cut, puncture, perforation, or laceration or secondary diagnosis present on admission - MDC 14 (pregnancy, childbirth, and puerperium)

0345 Accidental Puncture or Laceration Rate (PSI 15)

- with ICD-9-CM code for spine surgery

- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

Adjustment/Stratification: Statistical risk model. The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) and covariates for gender, age, modified CMS DRG, transfer status, procedure day availability, and the AHRQ Comorbidity category. The reference population used in the regression is the universe of discharges for states that participate in the HCUP State Inpatient Data (SID) for the years 2008, a database consisting of 42 states and approximately 30 million adult discharges. The expected rate is computed as the sum of the predicted value for each case divided by the number of cases for the unit of analysis of interest (i.e., hospital). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference population rate.

Covariates used in this measures: Sex Female Age 18 to 24 Age 25 to 29 Age 30 to 59 MDRG 101 MDRG 103 MDRG 107 302 MDRG MDRG 401 MDRG 402 MDRG 416 MDRG 502 MDRG 503 MDRG 504 MDRG 505 506 MDRG MDRG 507 MDRG 508 MDRG 510 MDRG 511 MDRG 513 MDRG 514 MDRG 519 MDRG 520 MDRG 522 MDRG 601 MDRG 602 MDRG 603 MDRG 604 MDRG 606 MDRG 609 MDRG 610 MDRG 611 MDRG 621 MDRG 701 MDRG 702 MDRG 703 MDRG 704 MDRG 705 MDRG 712 MDRG 806 MDRG 807

MDRG

815

	Puncture or Laceration Rate (PSI 15)
MDRG 816	
MDRG 1001	
MDRG 1003	
MDRG 1005	
MDRG 1006	
MDRG 1101	
MDRG 1102	
MDRG 1103	
MDRG 1104	
MDRG 1105	
MDRG 1107	
MDRG 1109	
MDRG 1201	
MDRG 1204	
MDRG 1301	
MDRG 1301	
MDRG 1302	
MDRG 1303	
MDRG 1304 MDRG 1305	
MDRG 1306	
MDRG 1300	
MDRG 1307	
MDRG 1300 MDRG 1707	
MDRG 1707 MDRG 1709	
MDRG 1709 MDRG 1801	
MDRG 1801 MDRG 1802	
MDRG 2108	
MDRG 2408	
MDRG 7702	
MDC 3	
MDC 4	
MDC 5	
MDC 6	
MDC 7	
MDC 8	
MDC 9	
MDC 11	
MDC 12	
MDC 13	
MDC 16	
MDC 17	
MDC 18	
MDC 21	
MDC 24	
MDC Other	
TRNSFER	Transfer-in
NOPRDAY	Procedure Days Data Not Available
COMORB	PERIVASC
COMORB	DM
COMORB	DMCX
COMORB	RENLFAIL
COMORB	OBESE
COMORB	WGHTLOSS

0345 Accidental Puncture or Laceration Rate (PSI 15)
COMORB BLDLOSS
COMORB ANEMDEF Not applicable
Level of Analysis: Facility
Type of Measure: Outcome
Data Source: Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for
Healthcare Research and Quality, Rockville, MD.
Measure Steward: Agency for Healthcare Research and Quality
STEERING COMMITTEE MEETING 12/15-16/2011
1. Importance to Measure and Report: Y-20; N-2
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)
1a. Impact: H-4; M-2; L-0; 1b. Performance Gap: H-4; M-1; L-1; I-0
1c. Evidence Quantity: H-; 2 M-3; L-1; I-0; Quality: H-3; M-3; L-0; I-0; Consistency: H-2; M-3; L-1; I-0
re. Evidence Quantity. 11-,2 W-3, E-1, 1-0, Quanty. 11-3, W-3, E-0, 1-0, Consistency. 11-2, W-3, E-1, 1-0
Rationale: The Committee recognized that the measure affects small numbers of patients. They agreed that the key problem with
accidental lacerations is those that occur without detection, resulting in a complication.
2. Scientific Acceptability of Measure Properties: Y-20; N-2
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity)
2a. Reliability: H-;2 M-3; L-1; I-0; 2b. Validity: H-2; M-3; L-1; I-0
Rationale: The Committee noted that the risk adjustment could include additional factors, such as specialty or body part and that the
measure's validity was impacted by the reliance on administrative data. The developer stated that work continues to determine if data
from laboratories, electronic health records, and other sources could be incorporated into the measure to increase its validity. Coding
updates and refinements are continuously made to address the issue and it has improved since the measure was initially developed.
3. Usability: H-3; M-16; L-3; I-0
(Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement)
3a. Public Reporting: H-3; M-2; L-1; I-0
3b. QI: H-4; M-0; L-2; I-0
Rationale: The Committee stated that the measure has been publicly reported for several years.
4. Feasibility: H-9; M-11; L-2; I-0
(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences
identified 4d. Data collection strategy can be implemented)
4a. Byproduct of Care Processes: H-5; M-1; L-0; I-0
4b. Electronic data sources: H-5; M-0; L-1; I-0
4c. Suscep inaccuracies, consequences: H-4; M-2; L-0; I-0
4d. Data collection strategy: H-5; M-1; L-0; I-0
Rationale: Given its reliance on administrative data, the measure is feasible as specified.
Steering Committee Recommendation for Endorsement: Y-20 ; N-2
Detionale. The measure is a useful indicator of quality by manifering rates of assidental sub-numburgs, notferstings, as lossestings
Rationale: The measure is a useful indicator of quality by monitoring rates of accidental cuts, punctures, perforations, or lacerations
among adult patients.
Public and Member Comment Comments included:
• Support for the measure
Comments did not require further Steering Committee action.
0362 Foreign Body left after procedure (PDI 3)

Measure Submission Form

Description: Count of discharges with foreign body left in during procedure in medical and surgical discharges among patients less than 18 years and not MDC 14 (pregnancy, childbirth, and puerperium) **Numerator Statement:** Discharges under age 18 with ICD-9-CM codes for foreign body left in during procedure in any secondary

0362 Foreign Body left after procedure (PDI 3) diagnosis field of medical and surgical discharges defined by specific DRGs or MS-DRGs where several exclusions are applied to the numerator. (Details of the numerator, medical and surgical discharges DRGs and MS-DRGs, and exclusions appear in 2a1.3). Denominator Statement: Not applicable Exclusions: Not applicable Adjustment/Stratification: No risk adjustment or risk stratification Not applicable Not applicable Level of Analysis: Facility Type of Measure: Outcome Data Source: Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. Measure Steward: Agency for Healthcare Research and Quality STEERING COMMITTEE MEETING 12/15-16/2011 1. Importance to Measure and Report: Y-22; N-0 (1a. High Impact: 1b. Performance Gap, 1c. Evidence) 1a. Impact: H-4; M-1; L-0; I-0; 1b. Performance Gap: H-4; M-1; L-0; I-0 1c. Evidence Quantity: H-3; M-1; L-0; I-0; Quality: H-3; M-1; L-0; I-0; Consistency: H-3; M-1; L-0; I-0 Rationale: All agreed that this measure continues to address an important patient safety area. The Committee discussed the incidence of foreign bodies being retained after a procedure and noted that once the statistics were further broken down to exclude foreign bodies left behind intentionally, there appeared to be a much lower rate of occurrence. They also suggested that the measure name could be changed to reduce confusion based on objects that were intentionally retained. 2. Scientific Acceptability of Measure Properties: Y-15; N-7 (2a. Reliability - precise specifications, testing; 2b. Validity - testing, threats to validity) 2a. Reliability: H-3; M-1; L-1; I-0; 2b. Validity: H-; 2 M-2; L-1; I-0 Rationale: The Committee debated at what point a foreign body would be considered "left after procedure" - i.e., at what point the surgical procedure officially ends - and noted the differences between a foreign body being left intentionally after surgery versus a foreign body left accidentally. Foreign bodies that affect the care management of a patient are counted in the measure and AHRQ confirmed that the definitions and time windows are consistent with the definitions for the similar serious reportable event (SRE). The Committee noted that device fragments may be left intentionally to reduce the potential for further injury inflicted by retrieval and stated that this would be coded as a "foreign body" within the measure as currently specified. The Committee requested that future versions of the measure be stratified by intended retained bodies, unintended retained bodies, and device malfunctions. The developer indicated it would be possible to capture this information through ICD-10 codes in the future. 3. Usability: H-2; M-12; L-8; I-0 (Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement) 3a. Public Reporting: H-1; M-3; L-1; I-0 3b. QI: H-3; M-1; L-1; I-0 Rationale: The Committee guestioned how the measure would improve guality and whether capturing the data would lead to a decrease in foreign bodies left after a procedure but agreed that it continued to be useful for both consumers and providers. 4. Feasibility: H-6; M-11; L-5; I-0 (4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c. Susceptibility to inaccuracies/ unintended consequences identified 4d. Data collection strategy can be implemented) 4a. Byproduct of Care Processes: H-5; M-0; L-0; I-0 4b. Electronic data sources: H-5; M-0; L-0; I-0 4c. Suscep inaccuracies, consequences: H-3; M-1; L-1; I-0 4d. Data collection strategy: H-3; M-1; L-1; I-0 Rationale: They encouraged the developer to utilize codes in the future that would reflect irretrievable device fragments, to differentiate between types of foreign bodies left after a procedure, which will hopefully be achieved when ICD10 is implemented. Because this measure is collected using administrative data, it was considered feasible. Steering Committee Recommendation for Endorsement: Y- 17; N-4 Rationale: The Committee agreed the measure was important and encouraged the developer to further differentiate between types of foreign bodies left after procedure in future iterations. **Public and Member Comment** Comments included: Request to combine this measure with measure 0363 to increase the denominator population ٠ Clarification on why two separate rates are needed for the pediatric and adult populations

0362 Foreign Body left after procedure (PDI 3)

The Steering Committee inquired as to the possibility of combining some of the pediatric and adult safety indicators into single measures stratified by age. The developer indicated that this could be a possibility in the future, but noted that in some cases there are differences in the risk adjustment models of the pediatric and adult safety indicators. The Committee agreed that it was appropriate to have the measures remain separate.

Developer response: Thank you for the comments. In addition to the ICD-10 specification, note also that in v4.5 of the AHRQ QI software then intention is to rename the measures "Retained surgical item or un-retrieved device fragment." The indicator is reported as a count, rather than a rate, so reliability in the sense discussed in the CMS study is not an issue. Note also that the measure requires data on present on admission (POA) to address false positives due to a foreign body from a previous encounter. Technically there is no denominator for these indicators as they are expressed as counts. The original rationale for reporting the counts separately for adult and pediatric populations was to increase the focus on the pediatric population.

0363 Foreign Body Left During Procedure (PSI 5)

Measure Submission Form

Description: Count of discharges with foreign body left in during procedure in medical and surgical discharges among patients 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium) **Numerator Statement:** Discharges, 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium), with ICD-9-CM codes for foreign body left in during procedure in any secondary diagnosis field of medical and surgical discharges defined by specific DRGs or

MS-DRGs. (Details of medical and surgical discharges defined by specific DRGs or MS-DRGs and exclusions noted in 2a1.3). **Denominator Statement:** Not applicable

Exclusions: Not applicable

Adjustment/Stratification: No risk adjustment or risk stratification Not applicable Not applicable

Level of Analysis: Facility

Type of Measure: Outcome

Data Source: Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD.

Measure Steward: Agency for Healthcare Research and Quality

STEERING COMMITTEE MEETING 12/15-16/2011

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

(1a. High Impact: 1b. Performance Gap, 1c. Evidence)

1a. Impact: H-4; M-1; L-0; I-0; 1b. Performance Gap: H-4; M-1; L-0; I-0

1c. Evidence Quantity: H-3; M-1; L-0; I-0; Quality: H-3; M-1; L-0; I-0; Consistency: H-3; M-1; L-0; I-0

<u>Rationale</u>: All agreed that this measure continues to address an important patient safety area. The Committee discussed the incidence of foreign bodies being retained after a procedure and noted that once the statistics were further broken down to exclude foreign bodies left behind intentionally, there appeared to be a much lower rate of occurrence. They also suggested that the measure name could be changed to reduce confusion based on objects that were intentionally retained.

2. Scientific Acceptability of Measure Properties: Y-15; N-7

(2a. Reliability - precise specifications, testing; 2b. Validity - testing, threats to validity)

2a. Reliability: H-3; M-1; L-1; I-0; 2b. Validity: H-; 2 M-2; L-1; I-0

<u>Rationale</u>: Rationale: The Committee debated at what point a foreign body would be considered "left after procedure" – i.e., at what point the surgical procedure officially ends – and noted the differences between a foreign body being left intentionally after surgery versus a foreign body left accidentally. Foreign bodies that affect the care management of a patient are counted in the measure and AHRQ confirmed that the definitions and time windows are consistent with the definitions for the similar serious reportable event (SRE). The Committee noted that device fragments may be left intentionally to reduce the potential for further injury inflicted by retrieval and stated that this would be coded as a "foreign body" within the measure as currently specified. The Committee requested that future versions of the measure be stratified by intended retained bodies, unintended retained bodies, and device malfunctions. The developer indicated it would be possible to capture this information through ICD-10 codes in the future.

3. Usability: H-2; M-12; L-8; I-0

(*Meaningful*, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement) **3a**. Public Reporting: **H-1**; **M-3**; **L-1**; **I-0**

3b. QI: H-3; M-1; L-1; I-0

<u>Rationale</u>: The Committee questioned how the measure would improve quality and whether capturing the data would lead to a decrease in foreign bodies left after a procedure but agreed that it continued to be useful for both consumers and providers.

0363 Foreign Body Left During Procedure (PSI 5)

4. Feasibility: H-6; M-11; L-5; I-0

(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences identified 4d. Data collection strategy can be implemented)

4a. Byproduct of Care Processes: H-5; M-0; L-0; I-0

4b. Electronic data sources: H-5; M-0; L-0; I-0

4c. Suscep inaccuracies, consequences: H-3; M-1; L-1; I-0

4d. Data collection strategy: H-3; M-1; L-1; I-0

<u>Rationale</u>: They encouraged the developer to utilize codes in the future that would reflect irretrievable device fragments, to differentiate between types of foreign bodies left after a procedure, which will hopefully be achieved when ICD10 is implemented. Because this measure is collected using administrative data, it was considered feasible.

Steering Committee Recommendation for Endorsement: Y- 17; N-4

Rationale: The Committee agreed the measure was important and encouraged the developer to further differentiate between types of foreign bodies left after procedure in future iterations.

Public and Member Comment

Comments included:

• Concern about the measure's sensitivity to different categories of foreign bodies left during procedures

• Concern about the measure's reliability

• Request to combine this measure with measure 0362 to increase the denominator population

Clarification on why two separate rates are needed for the pediatric and adult populations

As noted, the Steering Committee recognized the need for enhancing this measure's sensitivity to different categories of foreign bodies left during procedures. The Committee urged the developer to consider updating the measure to account for these different categories in the future. Regarding the measure's reliability, the Committee was satisfied with the developer's response. The Steering Committee inquired as to the possibility of combining some of the pediatric and adult safety indicators into single measures stratified by age. The developer indicated that this could be a possibility in the future, but noted that in some cases there are differences in the risk adjustment models of the pediatric and adult safety indicators. The Committee agreed that it was appropriate to have the measures remain separate.

Developer response: Thank you for the comments. In addition to the ICD-10 specification, note also that in v4.5 of the AHRQ QI software then intention is to rename the measures "Retained surgical item or un-retrieved device fragment." The indicator is reported as a count, rather than a rate, so reliability in the sense discussed in the CMS study is not an issue. Note also that the measure requires data on present on admission (POA) to address false positives due to a foreign body from a previous encounter. Technically there is no denominator for these indicators as they are expressed as counts. The original rationale for reporting the counts separately for adult and pediatric populations was to increase the focus on the pediatric population.

0263 Patient Burn

Measure Submission Form
Description: Percentage of ASC admissions experiencing a burn prior to discharge
Numerator Statement: Ambulatory surgical center (ASC) admissions experiencing a burn prior to discharge.
Denominator Statement: All ASC admissions.
Exclusions: None
Adjustment/Stratification: No risk adjustment or risk stratification. None. This measure is not stratified.
Level of Analysis: Facility
Type of Measure: Outcome
Data Source: Paper Records ASC medical records, as well as incident/occurrence reports, and variance reports may serve as data
sources. No specific collection instrument is required although the ASC Quality Collaboration has developed a sample data collection
instrument that may be used as desired. Facilities may use any collection instrument that allows tracking of all burns prior to discharge.
Measure Steward: Ambulatory Surgical Center Quality Collaboration
STEERING COMMITTEE MEETING 12/15-16/2011
Importance to Measure and Report: Y-22; N-0
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)

1a. Impact: H-4; M-1; L-1; I-0; 1b. Performance Gap: H-2; M-3; L-1; I-0

0263 Patient Burn	
Measure Submission Form	
Description: Percentage of ASC admissions experiencing a burn prior to discharge	
Numerator Statement: Ambulatory surgical center (ASC) admissions experiencing a burn prior to discharge.	
Denominator Statement: All ASC admissions.	
Exclusions: None	
Adjustment/Stratification: No risk adjustment or risk stratification. None. This measure is not stratified.	
Level of Analysis: Facility	
Type of Measure: Outcome	
Data Source: Paper Records ASC medical records, as well as incident/occurrence reports, and variance reports may serve as da	ata
sources. No specific collection instrument is required although the ASC Quality Collaboration has developed a sample data collection	
instrument that may be used as desired. Facilities may use any collection instrument that allows tracking of all burns prior to disch	narge.
Measure Steward: Ambulatory Surgical Center Quality Collaboration	-
1c. Evidence Quantity: H-2; M-1; L-2; I-0; Quality: H-1; M-2; L-2; I-0; Consistency: H-2; M-2; L-1-; I-0	
Rationale: The Committee agreed that while a patient burn is a rare event, it could lead to serious consequences for both the pati	ient and
hospital staff. This measure would provide an avenue for ambulatory surgical centers to collect data on a serious reportable ever	nt.
2. Scientific Acceptability of Measure Properties: Y-21; N-1	
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity)	
2a. Reliability: H-4; M-2; L-0; I-0; 2b. Validity: H-3; M-3; L-0; I-0	
Rationale: The measure provides a precise definition of burns, which is designed to capture the variety of ways a patient could be	<u>)</u>
injured.	
3. Usability: H-15; M-5; L-0; I-0	
(Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improv	/ement)
3a. Public Reporting: H-5; M-0; L-0; I-1	,
3b. QI: H-5; M-0; L-0; I-1	
Rationale: The measure will lead to public reporting and quality improvement of a serious reportable event in the ambulatory setting	ng.
4. Feasibility: H-18; M-5; L-0; I-0	
(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c. Susceptibility to inaccuracies/ unintended consequer	nces
identified 4d. Data collection strategy can be implemented)	
4a. Byproduct of Care Processes: H-2; M-2; L-0; I-1	
4b. Electronic data sources: H-1; M-1; L-2; I-1	
4c. Suscep inaccuracies, consequences: H-2; M-1; L-1; I-1	
4d. Data collection strategy: H-3; M-0; L-1; I-1	
Rationale: The Committee expressed concern that some burns may not be captured due to a patient's short length of stay, but	
acknowledged that these events were already being voluntarily reported	
Steering Committee Recommendation for Endorsement: Y- 22; N-0	
Rationale: While patient burns are a rare event, they can lead to serious consequences. The measure will raise awareness abo	ut the
varying types of burns that may result in patient injury.	
Public and Member Comment	
Comments included:	
Support for the measure	
Request that the measure's methodology be consistent with the inpatient burn measure	
NQF staff note: NQF has not endorsed an inpatient burn measure.	
Developer response: We thank the commenter for their support of the use of ASC standards. We are not aware of a related inp	atient
measure of burns.	
0346 latrogenic Pneumothorax Rate (PSI 6)	
Measure Submission Form	

Measure Submission Form

Description: Percent of discharges with ICD-9-CM code for iatrogenic pneumothorax in any secondary diagnosis field among cases meeting the inclusion and exclusion rules for the denominator

Numerator Statement: Discharges with ICD-9-CM code for iatrogenic pneumothorax in any secondary diagnosis field among cases

0346 latrogenic Pneumothorax Rate (PSI 6) meeting the inclusion and exclusion rules for the denominator. Denominator Statement: All surgical and medical discharges age 18 years and older defined by specific DRGs or MS-DRGs. Exclusions: Exclude cases: - with principal diagnosis of iatrogenic pneumothorax or secondary diagnosis present on admission - MDC 14 (pregnancy, childbirth, and puerperium) - with any diagnosis code of chest trauma or pleural effusion - with a code of diaphragmatic surgery repair in any procedure field - with any code indicating thoracic procedure, lung or pleural biopsy, or cardiac procedure - with missing gender (SEX=missing), age (AGE=missing), guarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing) Adjustment/Stratification: Statistical risk model. The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) and covariates for gender, age (in 5-year age groups), modified CMS DRG, and the AHRQ Comorbidity category. The reference population used in the regression is the universe of discharges for states that participate in the HCUP State Inpatient Data (SID) for the years 2008, a database consisting of 42 states and approximately 30 million adult discharges. The expected rate is computed as the sum of the predicted value for each case divided by the number of cases for the unit of analysis of interest (i.e., hospital). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference population rate. Sex Female 65 to 85+ Aae MDRG 416 MDRG 504 MDRG 510 MDRG 601 MDRG 602 MDRG 1103 MDRG 1801 1807 MDRG MDC 1 MDC 6 MDC 8 MDC 25 NOPRDAY Procedure Days Data Not Available COMORB HTN C COMORB NEURO COMORB CHRNLUNG COMORB DM COMORB DMCX COMORB METS COMORB OBESE COMORB **WGHTLOSS** COMORB **DRUG** Not applicable Level of Analysis: Facility Type of Measure: Outcome Data Source: Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. Measure Steward: Agency for Healthcare Research and Quality STEERING COMMITTEE MEETING 12/15-16/2011 1. Importance to Measure and Report: Y-18; N-1 (1a. High Impact: 1b. Performance Gap, 1c. Evidence) 1a. Impact: H-2; M-2; L-0; I-0; 1b. Performance Gap: H-3; M-1; L-0; I-0 1c. Evidence Quantity: H-1; M-2; L-1; I-0; Quality: H-2; M-1; L-1; I-0; Consistency: H-1; M-2; L-1; I-0 Rationale: The measure indicates a small performance gap, but focuses on an event which is relatively common. Additionally, it may be difficult to detect differences in performance between hospitals based on low volumes of jatrogenic pneumothoraxes. However, the Committee felt that it was important to capture these serious adverse events, many of which are preventable

0346 latrogenic Pneumothorax Rate (PSI 6)
2. Scientific Acceptability of Measure Properties: Y-17; N-2
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity)
2a. Reliability: H-3; M-1; L-0; I-0; 2b. Validity: H-4; M-0; L-0; I-0
Rationale: The measure is derived from administrative claims data, which has been shown to be consistent and reliable. The Committee network that the measure had a number of evaluations but egreed that the uncertained reasonable. The Committee network had a number of evaluations but egreed that the uncertained reasonable. The Committee network had a number of evaluations but egreed that the uncertained reasonable. The Committee network had a number of evaluations but egreed that the uncertained reasonable. The Committee network had a number of evaluations but egreed that the uncertained reasonable. The Committee network had a number of evaluations but egreed that the number of evaluations egreed the number of evaluations egre

Committee noted that the measure had a number of exclusions but agreed that they were necessary and reasonable. The Committee encouraged the developer to continue work on appropriate validation studies. The positive predictive values both for the adult and pediatric measures were low but determined to be acceptable.

3. Usability: H-6; M-12; L-1; I-0

(Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement) 3a. Public Reporting: H-3; M-1; L-0; I-0

3b. QI: H-3; M-1; L-0; I-0

Rationale: The Committee stated that the measure has been reported in the public domain and has led to quality improvement.

4. Feasibility: H-9; M-9; L-1; I-0

(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences identified 4d. Data collection strategy can be implemented)

4a. Byproduct of Care Processes: H-3; M-1; L-0; I-0

4b. Electronic data sources: H-3; M-1; L-0; I-0

4c. Suscep inaccuracies, consequences: H-3; M-1; L-0; I-0

4d. Data collection strategy: H-3; M-1; L-0; I-0

<u>Rationale</u>: The measure has been updated to reduce the likelihood of inaccuracies and appropriately capture the iatrogenic pneumothorax rate. Because this measure is collected using administrative data, it was considered feasible.

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

Rationale: The measure continues to provide information on an event that may be preventable and facilitates quality improvement.

Public and Member Comment

Comments included:

• Support for the measure

Comments did not require further Steering Committee action.

0348 latrogenic Pneumothorax Rate (PDI 5)

Measure Submission Form

Description: Percent of discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code of iatrogenic pneumothorax in any secondary diagnosis field

Numerator Statement: Discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code of iatrogenic pneumothorax in any secondary diagnosis field

Denominator Statement: Discharges, age under 18 years, defined by specific surgical and medical DRGs

Exclusions: Exclude cases:

- neonates with birth weight less than 2500 grams (Birth Weight Category 1-8)

- with principal diagnosis of iatrogenic pneumothorax or secondary diagnosis present on admission

- with any diagnosis code of chest trauma or pleural effusion

- with an ICD-9-CM procedure code of thoracic surgery, lung or pleural biopsy, diaphragmatic surgery repair, OR cardiac surgery - normal newborn

- MDC 14 (pregnancy, childbirth, and puerperium)

- with missing discharge gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

Adjustment/Stratification: Statistical risk model The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) and covariates for gender, birthweight (500g groups), age in days (29-60, 61-90, 91+), age in years (in 5-year age groups), modified CMS DRG and AHRQ CCS comorbities. The reference population used in the regression is the universe of discharges for states that participate in the HCUP State Inpatient Data (SID) for the years 2008, 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). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference population rate. Age in Years 13 to 18

0348 latrogenic Pneumothorax Rate (PDI 5)
Age in Years 1 to 13 Not applicable
Level of Analysis: Facility
Type of Measure: Outcome
Data Source: Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for
Healthcare Research and Quality, Rockville, MD.
Measure Steward: Agency for Healthcare Research and Quality
STEERING COMMITTEE MEETING 12/15-16/2011
1. Importance to Measure and Report: Y-18; N-1
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)
1a. Impact: H-2; M-2; L-0; I-0; 1b. Performance Gap: H-3; M-1; L-0; I-0
1c. Evidence Quantity: H-1; M-2; L-1; I-0; Quality: H-2; M-1; L-1; I-0; Consistency: H-1; M-2; L-1; I-0
Rationale: The Committee noted that the performance gap had decreased on the measure over time. However, a continued reduction in
the prevalence of these events shows that the performance gap can still be improved.
2. Scientific Acceptability of Measure Properties: Y-17; N-2
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity)
2a. Reliability: H-3; M-1; L-0; I-0; 2b. Validity: H-4; M-0; L-0; I-0
Rationale: The measure is derived from administrative claims data, which has been shown to be consistent and reliable. The
Committee noted that the measure had a number of exclusions but agreed that they were necessary and reasonable. The Committee
noted that the developer should continue to work on appropriate validation studies. The positive predictive values both for the adult and
pediatric measures were low but determined to be acceptable.
3. Usability: H-6; M-12; L-1; I-0
(Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement)
3a. Public Reporting: H-3; M-1; L-0; I-0 3b. QI: H-3; M-1; L-0; I-0
Rationale: The Committee stated that the measure has been reported in the public domain and led to quality improvement.
4. Feasibility: H-9; H-9; L-1; I-0
(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences
identified 4d. Data collection strategy can be implemented)
4a. Byproduct of Care Processes: H-3; M-1; L-0; I-0
4b. Electronic data sources: H-3; M-1; L-0; I-0
4c. Suscep inaccuracies, consequences: H-3; M-1; L-0; I-0
4d. Data collection strategy: H-3; M-1; L-0; I-0
Rationale: The measure has been updated to reduce the likelihood of inaccuracies and appropriately capture the iatrogenic
pneumothorax rate. Because this measure is collected using administrative data, it was considered feasible
Steering Committee Recommendation for Endorsement: Y- 18; N-1
Rationale: The measure continues to provide information on an event that may be preventable and facilitates quality improvement.
Public and Member Comment
Comments included:
Support for the measure
Question regarding the age range covered by the measure
The Steering Committee was satisfied with the developer's clarification.
Developer response: The target population includes all surgical and medical discharges under age 18 defined by specific DRGs or MS-
DRGs.

MEASURES RECOMMENDED FOR RESERVE STATUS

0349 Transfusion Reaction (PSI 16) Measure Submission Form

0240 Transfusion Description (DSI 1/)
0349 Transfusion Reaction (PSI 16)
Description: The count of medical and surgical discharges for patients age greater than or equal to 18 or in MDC 14 with ICD-9-CM
code for transfusion reaction in any secondary diagnosis field.
Numerator Statement: Discharges 18 years and older or in MDC 14 with ICD-9-CM codes for transfusion reaction in any secondary
diagnosis field of all medical and surgical discharges defined by specific DRGs or MS-DRGs
See Patient Safety Indicators Appendices:
- Appendix B – Medical Discharge DRGs
- Appendix C – Medical Discharge MS-DRGs
- Appendix D – Surgical Discharge DRGs
- Appendix E – Surgical Discharge MS-DRGs
Link to PSI appendices: http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PSI%20Appendices.pdf
Exclude cases:
-with principal diagnosis of transfusion reaction or secondary diagnosis present on admission
-with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis
(DX1=missing)
Denominator Statement: Not applicable
Exclusions: Not applicable
Adjustment/Stratification: No risk adjustment or risk stratification Not applicable Not applicable
Level of Analysis: Facility
Type of Measure: Outcome
Data Source: Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for
Healthcare Research and Quality, Rockville, MD.
Measure Steward: Agency for Healthcare Research and Quality
STEERING COMMITTEE MEETING 12/15-16/2011
1. Importance to Measure and Report: Y-6; N-15
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)
1a. Impact: H-2; M-2; L-0; I-1; 1b. Performance Gap: H-2; M-1; L-2; I-0
1c. Evidence Quantity: H-2; M-2; L-1; I-0; Quality: H-2; M-2; L-1; I-0; Consistency:
<u>Rationale</u> : The Committee questioned whether the measure would reduce transfusion reactions as the performance rate is currently low.
However, the Committee agreed that collecting data on transfusion reactions may be used to reduce events in the future. The
Committee also suggested that the measure's title may be wrongly interpreted to indicate a patient being given the wrong blood, when it
collects data on a variety of transfusion reactions, such as reactions to antigens. The Committee affirmed that the low number of events
provides evidence of industry success at managing transfusions and still meets two of the three criteria – high impact and evidence.
2. Scientific Acceptability of Measure Properties: Y-19; N- 2
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity)
2a. Reliability: H-3; M-1; L-0; I-1; 2b. Validity: H-3; M-1; L-0; I-1
Rationale: The Committee stated that the measure provides precise specifications to count a variety of transfusion events and is used to
monitor a serious reportable event.
3. Usability: H-5; M-10; L-6; I-
(Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement)
3a. Public Reporting: H-2; M-2; L-1; I-0
3b. QI: H-2; M-1; L-2; I-0
Rationale: The Committee expressed concern about the value of publicly reporting transfusion reactions and whether it would affect
quality improvement. However, they also noted the measure could be easily interpreted by the public.
4. Feasibility: H-14; M-;5 L-2; I-
(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences
identified 4d. Data collection strategy can be implemented)
4a. Byproduct of Care Processes: H-4; M-1; L-0; I-0
4b. Electronic data sources: H-4; M-1; L-0; I-0
4c. Suscep inaccuracies, consequences: H-3; M-1; L-1; I-0
4d. Data collection strategy: H-4; M-1; L-0; I-0
<u>Rationale</u> : The measure has been implemented for a number of years, using administrative data, indicating that it is feasible to collect.
Steering Committee Recommendation for Endorsement: Reserve Status Y- 19; N-1
Rationale: The measure provides important information to the industry and consumers, highlighting a small but important performance
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NQF MEMBER VOTES due by April 26, 2012 by 6:00pm ET

0349 Transfusion Reaction (PSI 16)

gap. The Committee was concerned of the implications if endorsement was removed and no longer reported because of the low performance gap. Based on the Committee's discussion and votes, the measure continues to meet all of the criteria with the exception of an opportunity for improvement. The Committee stressed that this achievement should be celebrated but also it should be monitored to ensure that this event continues to be low; thus, they recommend that the measure be endorsed with reserve status.

Public and Member Comment

Comments included:

Request for clarification regarding "reserve status"

The Committee determined that the measures continue to meet the guidance for recommending reserve status and did not change its recommendations.

NQF staff note: The criteria for endorsement with reserve status are on the NQF web site and references to the information have been added on several web pages on the web site.

0350 Transfusion Reaction (PDI 13)

Measure Submission Form

Description: The count of medical and surgical discharges for patients age less than 18 and not in MDC 14 with ICD-9-CM code for transfusion reaction in any secondary diagnosis field. Numerator Statement: Discharges under age 18 with ICD-9-CM codes for transfusion reaction in any secondary diagnosis field of all medical and surgical discharges defined by specific DRGs or MS-DRGs with the exclusion of neonates, cases in MDC 14 and instances with the outcome of interest was present on admission. See Pediatric Quality Indicators Appendices: - Appendix B – Surgical DRGs - Appendix C – Surgical MS-DRGs - Appendix D – Medical DRGs - Appendix E – Medical MS-DRGs - Appendix I – Definitions of, Neonate, Newborn, Normal Newborn, and Outborn Link to PDI appendices: http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PDI%20Appendices.pdf Cases excluded with missing gender (SEX=missig, age (AGE=missing), guarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing) Denominator Statement: Not applicable Exclusions: Not applicable Adjustment/Stratification: No risk adjustment or risk stratification Not applicable Not applicable Level of Analysis: Facility Type of Measure: Outcome Data Source: Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. Measure Steward: Agency for Healthcare Research and Quality STEERING COMMITTEE MEETING 12/15-16/2011 1. Importance to Measure and Report: Y-6; N-15 (1a. High Impact: 1b. Performance Gap, 1c. Evidence) 1a. Impact: H-3; M-1; L-0; I-1; 1b. Performance Gap: H-1; M-2; L-2; I-0 1c. Evidence Quantity: H-1; M-3; L-1; I-0; Quality: H-1; M-3; L-1; I-0; Consistency: H-2; M-2; L-1; I-0 Rationale: The Committee guestioned whether the measure would reduce transfusion reactions as the performance rate is currently low. However, the Committee agreed that collecting data on transfusion reactions may be used to reduce events in the future. The Committee also suggested that the measure's title may be wrongly interpreted to indicate a patient being given the wrong blood, when it collects data on a variety of transfusion reactions, such as reactions to antigens. The Committee affirmed that the low number of events provides evidence of industry success at managing transfusions and still meets two of the three criteria - high impact and evidence. 2. Scientific Acceptability of Measure Properties: Y-19; N-2 (2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity) 2a. Reliability: H-3; M-1; L-0; I-1; 2b. Validity: H-3; M-1; L-0; I-1 Rationale: The Committee stated that the measure provides precise specifications to count a variety of transfusion events and is used to monitor a serious reportable event. 3. Usability: H-5; M-10; L-6; I-

0350 Transfusion Reaction (PDI 13)

(Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement) 3a. Public Reporting: H-2; M-2; L-1; I-0

3b. QI: H-2; M-1; L-2; I-0

<u>Rationale</u>: The Committee expressed concern about the value of publicly reporting transfusion reactions and whether it would affect quality improvement. However, they also noted the measure could be easily interpreted by the public.

4. Feasibility: H-14; M-;5 L-2; I-

(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences identified 4d. Data collection strategy can be implemented)

4a. Byproduct of Care Processes: H-4; M-1; L-0; I-0

4b. Electronic data sources: H-4; M-1; L-0; I-0

4c. Suscep inaccuracies, consequences: H-3; M-1; L-1; I-0

4d. Data collection strategy: H-4; M-1; L-0; I-0

<u>Rationale</u>: The measure has been implemented for a number of years, using administrative data, indicating that it is feasible to collect. Steering Committee Recommendation for Endorsement: Reserve Status Y- 19; N-1

Rationale: The measure provides important information to the industry and consumers, highlighting a small but important performance gap. The Committee was concerned of the implications if endorsement was removed and no longer reported because of the low performance gap. Based on the Committee's discussion and votes, the measure continues to meet all of the criteria with the exception of an opportunity for improvement. The Committee stressed that this achievement should be celebrated but also it should be monitored to ensure that this event continues to be low; thus, they recommend that the measure be endorsed with reserve status.

Public and Member Comment

Comments included:

Request for clarification regarding "reserve status"

The Committee determined that the measures continue to meet the guidance for recommending reserve status and did not change its recommendations.

<u>NQF staff note:</u> The criteria for endorsement with reserve status are on the NQF web site and references to the information have been added on several web pages on the web site.

MEASURES NOT RECOMMENDED

0371 Venous Thromboembolism Prophylaxis

Measure Submission Form

Description: This measure assesses the number of patients who received venous thromboembolism (VTE) prophylaxis or have documentation why no VTE prophylaxis was given the day of or the day after hospital admission or surgery end date for surgeries that start the day of or the day after hospital admission. This measure is part of a set of six nationally implemented prevention and treatment measures that address VTE (VTE-2: ICU VTE Prophylaxis, VTE-3: VTE Patients with Anticoagulation Overlap Therapy, VTE-4: VTE Patients Receiving UFH with Dosages/Platelet Count Monitoring, VTE-5: VTE Warfarin Therapy Discharge Instructions and VTE-6: Incidence of Potentially-Preventable VTE) that are used in The Joint Commission's accreditation process. Numerator Statement: Patients who received VTE prophylaxis or have documentation why no VTE prophylaxis was given: •the day of or the day after hospital admission •the day of or the day after surgery end date for surgeries that start the day of or the day after hospital admission **Denominator Statement:** All discharged hospital inpatients Exclusions: •Patients less than 18 years of age •Patients who have a length of stay (LOS) less than two days and greater than 120 days •Patients with Comfort Measures Only documented on day of or day after hospital arrival •Patients enrolled in clinical trials •Patients who are direct admits to intensive care unit (ICU), or transferred to ICU the day of or the day after hospital admission with ICU

0371 Venous Thromboembolism Prophylaxis
LOS greater than or equal to one day
•Patients with ICD-9-CM Principal Diagnosis Code of Mental Disorders or Stroke as defined in Appendix A, Table 7.01, 8.1 or 8.2
•Patients with ICD-9-CM Principal or Other Diagnosis Codes of Obstetrics or VTE as defined in Appendix A, Table 7.02, 7.03 or 7.04
•Patients with ICD-9-CM Principal Procedure Code of Surgical Care Improvement Project (SCIP) VTE selected surgeries as defined in
Appendix A, Tables 5.17, 5.19, 5.20, 5.21, 5.22, 5.23, 5.24
Adjustment/Stratification: No risk adjustment or risk stratification; Not applicable; Not Applicable, the measure is not stratified.
Level of Analysis: Facility, Population : National
Type of Measure: Process
Data Source: Administrative claims, Electronic Clinical Data : Electronic Health Record, Paper Records Each data element in the data
dictionary includes suggested data sources.
The data are collected using contracted Performance Measurement Systems (vendors) that develop data collection tools based on the
measure specifications. The tools are verified and tested by Joint Commission staff to confirm the accuracy and conformance of the data
collection tool with the measure specifications. The vendor may not offer the measure set to hospitals until verification has been passed.
Measure Steward: The Joint Commission
STEERING COMMITTEE MEETING 12/15-16/2011
1. Importance to Measure and Report: Y-20; N-1
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)
1a. Impact: H-8; M-1; L-0; Ib. Performance Gap: H-8; M-1; L-0; I-0
1c. Evidence Quantity: H-8; M-1; L-0; I-0; Quality: H-8; M-1; L-0; I-0; Consistency: H-8; M-1; L-0; I-0
<u>- TC. Evidence Quantity. 11-0, W-1, E-0, 1-0, Quanty. 11-0, W-1, E-0, 1-0, Consistency. 11-0, W-1, E-0, 1-0</u>
Rationale: There is strong evidence to support the measure and recent reporting indicated a performance gap of 17%. However, the
Committee stated that the measure has a limited ability to impact outcomes since it lacks a validated risk assessment model and
remains vague. Yet, the Committee agreed that it would encourage hospitals to have standardized policies for VTE prophylaxis among
inpatients.
2. Scientific Acceptability of Measure Properties: Y-17; N- 4
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity)
2a. Reliability: H-5; M-4; L-0; I-0; 2b. Validity: H-7; M-2; L-0; I-0
Define the Theorem and the design of the design of the constraint of the design of the second design of the design of the
Rationale: The measure was considered a good starting point for examining whether patients were given prophylaxis. However, the
Committee expressed concern about the measure's lack of specificity on how risk is assessed. Patients at low risk as well as certain
other populations, such as renal patients and older patients, should not be given prophylaxis since it increases the risk of bleeding. The
American College of Chest Physicians is expected to release new guidelines (ACCP-9) around VTE prophylaxis in February 2012; these
guidelines may offer additional direction to providers. Additionally, the Committee expressed reservations regarding the lack of a
definition for "effective prophylaxis". Hospitals may vary in their interpretation of this language; therefore, the measure may not be
limited in its usefulness for comparison. It was suggested that in the future the measure could be further specified and improved. While
there were concerns with the specificity of the measure, the measure as specified demonstrated reliable results and face validity was
provided.
<u>3. Usability: H-3; M-14; L-4; I-0</u>
(Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement)
3a. Public Reporting: H-8; M-1; L-0; I-0
<u>3b. Ql: H-8; M-1; L-0; I-0</u>
Rationale: This measure is part of a VTE measure set that will be implemented nationally in January 2013. While the Committee
questioned whether the measure alone will provide useful information to consumers, members agreed that measuring VTE prophylaxis
will lead to quality improvement.
4. Feasibility: H-8; M-10; L-3; I-0
(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences
identified 4d. Data collection strategy can be implemented)
4a. Byproduct of Care Processes: H-8; M-1; L-0; I-0
4b. Electronic data sources: H-3; M-2; L-3; I-0
4c. Suscep inaccuracies, consequences: H-5; M-4; L-0; I-0
4d. Data collection strategy: H-7; M-1; L-0; I-1
Rationale: Creating a risk assessment model would have made data collection more complicated, which would further limit feasibility.
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0371 Venous Thromboembolism Prophylaxis

The measure will be reevaluated and updated every six months by the developer. Steering Committee Recommendation for Endorsement: Y-17; N-4

Rationale: The measure recognizes that VTE prophylaxis is an important part of the process of care for a variety of diagnoses and treatment plans. While there are concerns about the implementation and usefulness of the measure, the Committee agreed that it continues to be a good starting point in the assessment of hospital performance related to VTE prophylaxis.

Public and Member Comment

Comments included:

- A request for this measure to be split out to address surgical and non-surgical patients separately
- Suggestion to separate reporting of anticoagulation prophylaxis from reporting of mechanical prophylaxis
- Need greater discernment between adequate prophylaxis and any prophylaxis
- Should not encourage VTE prophylaxis in individuals whose risk of bleeding exceeds the risk of thrombosis
- Measure should reflect prophylaxis across the patient stay, rather than only upon admission to the hospital or transfer to the ICU

The submitted comments prompted a Steering Committee discussion regarding "adequate" or "effective" prophylaxis, among other issues. A number of Committee members voiced concerns about the measure's acceptance of mechanical prophylaxis as a satisfactory means of VTE prevention. Many members stated that the evidence supported the use of mechanical prophylaxis only if pharmacological prophylaxis is contraindicated. Yet as currently specified, mechanical prophylaxis would satisfy measure 0371 even if pharmacological prophylaxis is not contraindicated, which some Committee members interpreted as being inconsistent with the most recent American College of Physicians (ACP) and American College of Chest Physicians (ACCP) guidelines. ACP and ACCP guidelines also recommend administration of prophylaxis only if the benefits outweigh the risks. Because there is currently no validated tool for VTE risk-assessment, some Committee members were hesitant to recommend a measure that may encourage VTE prophylaxis in lower-risk patients. For this reason, the Committee was more comfortable with measure 0372, which applies to the higher-risk population of patients in the ICU. In addition, some Committee members agreed that administration of prophylaxis should be measured across the patient stay, and that a single order or day of administration, which is how the measure is currently specified, was not necessarily reflective of quality care. In general, the Committee viewed the measure as being useful for internal quality improvement efforts, but were concerned that publicly-reported performance on the measure may not lead to valid judgments regarding the quality of care. The Steering Committee agreed to hold a reconsideration vote on the measure.

Developer response: Adequate prophylaxis is individualized for each patient scenario. Stratification treatment based on risk assessment is a consideration, however, consensus regarding a standard risk assessment tool or method has not yet been reached. This measure has been specified to collect data in the designated time frame to reduce abstractor burden. These current paper-based measures have been specified to collect data in the designated time frame in order to reduce abstractor burden. Electronic specifications for these measures have been developed and the measures have been included as clinical quality measures for Stage 1 of Meaningful Use.

Vote Following Consideration of Public and Member Comments

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

- 2. Scientific Acceptability of Measure Properties: Y-10; N-11
- 3. Usability: H-2; M-11; L-8; I-0
- 4. Feasibility: H-2; M-13; L-5; I-0

Steering Committee Recommendation for Endorsement: Y-10; N-13

Rationale: The measure recognizes that VTE prophylaxis is an important part of the process of care for a variety of diagnoses and treatment plans. However, concerns about implementation issues and the usefulness of the measure, as well as questions about whether the measure truly reflects providers' quality of care, led the Committee to decide against recommending the measure for endorsement.

INATIONAL QUALITY FORUM
0374 Venous Thromboembolism Patients Recieving Unfractionated Heparin with Dosages/Platelet Count Monitoring by
Protocol or Nomogram
Measure Submission Form
Description: This measure assesses the number of patients diagnosed with confirmed venous thromboembolism (VTE) who received
intravenous (IV) unfractionated heparin (UFH) therapy dosages AND had their platelet counts monitored using defined parameters such
as a nomogram or protocol. This measure is part of a set of six prevention and treatment measures that address VTE (VTE-1: VTE
Prophylaxis, VTE-2: ICU VTE Prophylaxis, VTE-3: VTE Patients with Anticoagulation Overlap Therapy, VTE-5: VTE Warfarin Therapy
Discharge Instructions and VTE-6: Incidence of Potentially-Preventable VTE).
Numerator Statement: Patients who have their IV UFH therapy dosages AND platelet counts monitored according to defined
parameters such as a nomogram or protocol.
Denominator Statement: Patients with confirmed VTE receiving IV UFH therapy. The target population includes patients discharged with an ICD-9-CM Principal or Other Diagnosis Codes for VTE as defined in Table 7.03 or Table 7.04.
Exclusions:
•Patients less than 18 years of age
•Patients who have a length of stay greater than 120 days
•Patients with Comfort Measures Only documented
•Patients enrolled in clinical trials
•Patients discharged to a health care facility for hospice care
•Patients discharged to home for hospice care
•Patients who expired
Patients who left against medical advice
•Patients discharged to another hospital
•Patients without UFH Therapy Administration
 Patients without VTE confirmed by diagnostic testing
Adjustment/Stratification: No risk adjustment or risk stratification Not applicable Not applicable
Level of Analysis: Facility, Population : National
Type of Measure: Process
Data Source: Administrative claims, Electronic Clinical Data, Paper Records. Each element in the data dictionary includes suggested
data sources. The data are collected using contracted Performance Measurement Systems (vendors) that develop data collection tools
based on the measure specifications. The tools are verified and tested by Joint Commission staff to confirm the accuracy and conformance of the data collection tool with the specifications. The vendor may not offer the measure set to hospitals until verification
has been passed.
Measure Steward: The Joint Commission
STEERING COMMITTEE MEETING 12/15-16/2011
1. Importance to Measure and Report: Y-10; N-11
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)
1a. Impact: H-8; M-1; L-0; I-0; 1b. Performance Gap: H-4; M-2; L-1; I-1
1c. Evidence Quantity: H-5; M-4; L-0; I-0; Quality: H-5; M-4; L-0; I-0; Consistency: H-7; M-2; L-0; I-0
Rationale: The Committee expressed concern that the measure focused only on the use of a nomogram, and not whether therapeutic
range was achieved. There was evidence to support the measure focus and a gap exists. Because the vote on whether the measure
passed importance to measure and report, the Committee continued discussions on the remaining criteria.
2. Scientific Acceptability of Measure Properties: Y-7; N-14
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity)
2a. Reliability: H-4; M-5; L-0; I-0; 2b. Validity: H-5; M-4; L-0; I-0
Rationale: The Committee was concerned that the measure only applied to a small number of patients. Additionally, the Committee
stated that measuring the use of a nomogram was not a direct indication of improvement in patient care. There was concern related to
the validity of the measure as it is not measuring what is of most interest – whether therapeutic range was achieved. Also, it was
recommended that platelet monitoring should be its own measure rather than included here.
3. Usability: H-; M-; L-; I- (Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement)
3a. Public Reporting: H-9; M-0; L-0; I-0 3b. QI: H-9; M-0; L-0; I-0
Rationale:
4. Feasibility: H-; M-; L-; I-
(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences

 0374 Venous Thromboembolism Patients Recieving Unfractionated Heparin with Dosages/Platelet Count Monitoring by

 Protocol or Nomogram

 identified 4d. Data collection strategy can be implemented)

 4a. Byproduct of Care Processes: H-7; M-2; L-0; I-0

 4b. Electronic data sources: H-6; M-3; L-0; I-0

 4c. Suscep inaccuracies, consequences: H-6; M-3; L-1; I-0

 4d. Data collection strategy: H-5; M-3; L-1; I-0

 Ad. Data collection strategy: H-5; M-3; L-1; I-0

 Rationale:

 Steering Committee Recommendation for Endorsement: Did not pass the Scientific Acceptability of Measure Properties criteria, which is required for endorsement.

 Rationale:

 Rationale:

 The goal of the measure is for a patient to be within the therapeutic range; however, measuring the use of a nomogram alone does not necessarily lead to an improvement in patient outcomes.

 Public and Member Comment

 Comments included:

 • Concern about the Steering Committee's decision not to recommend endorsement of this measure.

The Committee carefully considered the potential benefits of this measure, holding an extensive discussion on the importance of monitoring patients on unfractionated heparin. However, the Committee struggled with the relatively weak connection between the process being measured and the desired outcomes in this instance. Committee members emphasized that measuring whether or not a nomogram is used does not capture the more important question of whether a patient's partial thromboplastin time (PTT) is brought within a therapeutic range. Indeed, Committee members pointed out that use of a nomogram frequently does not lead to achievement of therapeutic range. The Committee expressed concern about burdening providers with implementation of measures that have not been shown to improve patient outcomes.

0375 Venous Thromoboembolism Warfarin Therapy Discharge Instructions

Measure Submission Form

Description: This measure assesses the number of patients diagnosed with confirmed VTE that are discharged on warfarin to home, home with home health or home hospice with written discharge instructions that address all four criteria: compliance issues, dietary advice, follow-up monitoring, and information about the potential for adverse drug reactions/interactions. This measure is part of a set of six prevention and treatment measures that address VTE (VTE-1: VTE Prophylaxis, VTE-2: ICU VTE Prophylaxis, VTE-3: VTE Patients with Anticoagulation Overlap Therapy, VTE-4: VTE Patients Receiving UFH with Dosages/Platelet Count Monitoring by Protocol and VTE-6: Incidence of Potentially-Preventable VTE). Numerator Statement: Patients with documentation that they or their caregivers were given written discharge instructions or other educational material about warfarin that addressed all of the following: 1. compliance issues 2. dietary advice 3. follow-up monitoring 4. potential for adverse drug reactions and interactions **Denominator Statement:** Patients with confirmed VTE discharged on warfarin therapy. The target population includes patients discharged with an ICD-9-CM Principal or Other Diagnosis Codes for VTE as defined in Table 7.03 or Table 7.04 that are discharged to home, homecare or court/law enforcement or home for hospice care. Please note: The allowable values of the data element Discharge Disposition are used to designate which locations are included. 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 without Warfarin Prescribed at Discharge Patients without VTE confirmed by diagnostic testing Adjustment/Stratification: No risk adjustment or risk stratification. Not applicable Not applicable, the measure is not stratified. Level of Analysis: Facility, Population : National Type of Measure: Process Data Source: Administrative claims, Electronic Clinical Data, Paper Records Each data element in the data dictionary includes suggested data sources.

The data are collected using contracted Performance Measurement Systems (vendors) that develop data collection tools based on the

0375 Venous Thromoboembolism Warfarin Therapy Discharge Instructions	
measure specifications. The tools are verified and tested by Joint Commission staff to confirm the accuracy and conformance	ce of the data
collection tool with the measure specifications. The vendor may not offer the measure set to hospitals until verification has b	been passed.
Measure Steward: The Joint Commission	
STEERING COMMITTEE MEETING 12/15-16/2011	
1. Importance to Measure and Report: Y-10; N-11	
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)	
1a. Impact: H-7; M-2; L0-; I-0; 1b. Performance Gap: H-6; M-3; L-0; I-0	
1c. Evidence Quantity: H-1; M-7; L-1; I-0; Quality: H-0; M-4; L-4; I-0; Consistency: H-4; M-3; L-1; I-1	
<u>Rationale</u> : The measure documents whether patients were provided with written instructions for the use of warfarin therapy However, the measure is limited in that it does not assess a patient's understanding of the discharge instructions nor the eff the education (i.e., improved compliance post discharge). An opportunity for improvement does continue to exist but it was whether the measure's continued use would lead to further improvement in patient outcomes. Because the vote on whether measure passed importance to measure and report, the Committee continued discussions on the remaining criteria.	fectiveness of s not clear
2. Scientific Acceptability of Measure Properties: Y-4; N-17	
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity)	
2a. Reliability: H-4; M-5; L-0; I-0; 2b. Validity: H-2; M-;6 L-1; I-0	
<u>Rationale</u> : The Committee underscored the importance of patient education but noted that the measure instructions should a patient's native language to ensure understanding. They encouraged the developer to continue working on measures for patient education but to ensure that the measure uses validated educational materials. A Committee member suggested a discharge follow-up phone call could be used to clarify how well instructions were adhered to by the patient. Because the not pass scientific acceptability, the Committee did not discuss the remaining criteria.	cused on 24 hour post-
 3. Usability: H-; M-; L-; I- (Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality I. 3a. Public Reporting: H-4; M-5; L-0; I-0 3b. Ql: H-6; M-2; L-1; I-0 	Improvement)
Rationale:	
4. Feasibility: H-; M-; L-; I-	
 (4. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended cons identified 4d. Data collection strategy can be implemented) 4a. Byproduct of Care Processes: H-6; M-2; L-1; I-0 	sequences
4b. Electronic data sources: H-4; M-4; L-1; I-0	
4c. Suscep inaccuracies, consequences: H-5; M-3; L-1; I-0	
4d. Data collection strategy: H-6; H-2; L-1; I-0	
Rationale:	
Steering Committee Recommendation for Endorsement: Did not pass the Importance to Measure and Report and t Acceptability of Measure Properties criteria, which are required for endorsement.	the Scientific
Rationale: The measure may not directly lead to an improvement in patient outcomes and lacks validated educational mat	torials
Public and Member Comment	tonuis.
Comments included:	
 Concern about the Steering Committee's decision not to recommend endorsement of this measure. 	
The Committee carefully considered the potential benefits of this measure, holding an extensive discussion on the important	
communicating appropriate information to patients being discharged on Warfarin. However, the Committee struggled with the verse in this instance. Committee members are	
weak connection between the process being measured and the desired outcome in this instance. Committee members emp	
measuring whether patients receive discharge instructions for Warfarin therapy does not capture the quality of those instructions and will make behavioral abarras as a result. The Committee	
does it capture whether patients comprehend the instructions and will make behavioral changes as a result. The Committee	
lack of evidence showing a link between the provision of written instructions and improved outcomes, and expressed conce	ern about
burdening providers with implementation of measures that have not been shown to improve patient outcomes.	
0376 Incidence of Potentially Preventable Venous Thromboembolism	
Measure Submission Form Description: This measure assesses the number of patients with confirmed venous thromboembolism (VTE) during hospita	

0376 Incidence of Potentially Preventable Venous Thromboembolism present at admission) who did not receive VTE prophylaxis between hospital admission and the day before the VTE diagnostic testing order date. This measure is part of a set of six prevention and treatment measures that address VTE (VTE-1: VTE Prophylaxis, VTE-2: ICU VTE Prophylaxis, VTE-3: VTE Patients with Anticoagulation Overlap Therapy, VTE-4: VTE Patients Receiving UFH with Dosages/Platelet Count Monitoring by Protocol, and VTE-5: VTE Warfarin Therapy Discharge Instructions). Numerator Statement: Patients who received no VTE prophylaxis prior to the VTE diagnostic test order date Denominator Statement: Patients who developed confirmed VTE during hospitalization. The target population includes patients discharged with an ICD-9-CM Secondary Diagnosis Codes for VTE as defined in Table 7.03 or Table 7.04. Exclusions: Patients less than 18 years of age Patients who have a length of stay greater than 120 days Patients with Comfort Measures Only documented · Patients enrolled in clinical trials Patients with ICD-9-CM Principal Diagnosis Code of VTE as defined in Appendix A, Table 7.03 or 7.04 Patients with VTE Present at Admission Patients with reasons for not administering mechanical and pharmacologic prophylaxis Patients without VTE confirmed by diagnostic testing Adjustment/Stratification: No risk adjustment or risk stratification; No risk adjustment or risk stratification as intermediate outcome; Not Applicable Level of Analysis: Facility, Population : National Type of Measure: Outcome Data Source: Administrative claims, Paper Records Each data element in the data dictionary includes suggested data sources. The data are collected using contracted Performance Measurement Systems (vendors) that develop data collection tools based on the measure specifications. The tools are verified and tested by Joint Commission staff to confirm the accuracy and conformance of the data collection tool with the measure specifications. Verification must be completed and passed before the vendor can offer the data collection tool to hospitals. Measure Steward: The Joint Commission STEERING COMMITTEE MEETING 12/15-16/2011 1. Importance to Measure and Report: Y-20; N-2 (1a. High Impact: 1b. Performance Gap, 1c. Evidence) 1a. Impact: H-8; M-0; L-0; I-1; 1b. Performance Gap; H-6; M-2; L-0; I-1 1c. Evidence Quantity: H-6; M-2; L-0; I-0; Quality: H-6; M-1; L-1; I-0; Consistency: H-6; M-1; L-1; I-0 Rationale: The measure is important because it indicates the adequacy of the hospital's risk assessment profile by reporting the rate at which patients acquired VTE and did not receive prophylaxis. The measure presented an aggregate performance gap of 13.2% and stated that the gap would ideally be reduced to 0%. However, the Committee expressed concern that the measure did not gauge the adequacy of the prophylaxis. They also recognized that patients receiving adequate prophylaxis could still develop adverse events regardless of the quality of the provider's care. 2. Scientific Acceptability of Measure Properties: Y-20; N-1 (2a. Reliability - precise specifications, testing; 2b. Validity - testing, threats to validity) 2a. Reliability: H-7; M-1; L-1; I-0; 2b. Validity: H-6; M-3; L-0; I-0 Rationale: The measure as specified includes the rate of patients who had a confirmed VTE that was not present on admission – the Committee was interested with the idea that while the measure focused on those patients who had a treatment failure (i.e., were not assessed and treated resulting in a VTE), the denominator itself also provided valuable information. Reliability and validity were demonstrated. 3. Usability: H-7; M-14; L-1; I-0 (Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement) 3a. Public Reporting: H-7; M-2; L-0; I-0 3b. QI: H-7; M-2; L-0; I-0 Rationale: The measure will assist hospitals with quality improvement by reporting patients not risk-assessed for VTE. 4. Feasibility: H-7; M-13; L-1; I-0 (4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences identified 4d. Data collection strategy can be implemented) 4a. Byproduct of Care Processes: H-8; M-1; L-0; I-0

- 0376 Incidence of Potentially Preventable Venous Thromboembolism
- 4b. Electronic data sources: H-4; M-5; L-0; I-0

4c. Suscep inaccuracies, consequences: H-5; M-3; L-1; I-0

4d. Data collection strategy: H-6; M-2; L-1; I-0

Rationale: The measure is currently being collected and no concerns with feasibility were raised. Steering Committee Recommendation for Endorsement: Y-20; N-2

Rationale: The measure indicates whether facilities are adequately assessing patients for their risk of developing VTE and provide important information on the incidence of VTEs that could have potentially been avoided through appropriate assessment and treatment. **Public and Member Comment**

Comments included:

- Measure should be restricted to non-surgical patients
- <u>Concern that use of the present on admission indicator could exclude patients who acquired VTE as a result of a previous hospital admission</u>
- "Potentially preventable" events should be restricted to those patients who received prophylaxis according to the institutional protocol in order to capture instances of inadequate prophylaxis
- Only pulmonary embolism and lower extremity DVT should be included

After reviewing the comments and the developer's response, the Steering Committee revisited its decision on this measure and held further discussion on the measure's strengths and weaknesses. Committee members agreed that identification of patients with hospital-acquired VTE was a good idea, and that looking back to determine whether adequate prophylaxis was given could be useful for internal quality improvement efforts. However, the Committee was concerned about use of the measure for accountability purposes as the measure looks retrospectively at the care of patients who have developed VTE and determines whether prophylaxis was provided in those cases. Committee members were not convinced that the measure reflects truly preventable events, and many believed that it would be better to have a risk-adjusted outcome measure. In addition, Committee members believed that the measure would be labor-intensive for providers and that it would be difficult to capture data in a consistent fashion given its reliance on the review of paper medical records. The Steering Committee decided to hold a reconsideration vote after the call; upon reconsideration, measure 0376 was not recommended for endorsement. Final voting results are available in the draft report.

Developer response: Due to the fact that standardized risk assessment and standardized protocols for VTE Prophylaxis have not been widely endorsed, this measure evaluates the use of any prophylaxis used to be adequate, leaving the method of prophylaxis decision making up to the care provider. The population used for this measure consists of discharges with an ICD-9-CM Other Diagnosis Codes of VTE as defined in Appendix A, Table 7.03 or 7.04 [in the measure submission]. This includes all populations, including surgical patients that are not populated into the SCIP-VTE 1 measure. Without the use of an Electronic Health System, prior hospitalization data is not available to the present organization in question. The technical advisory panel felt that a greater population of potentially preventable VTE be included in this measure, as this provides valuable data on all VTEs for the organization to use in a process improvement plan.

This measure targets those patients who have developed VTE while hospitalized in order to assess whether VTE prophylaxis was instituted prior to the development of the VTE. Presumably, organizational performance assessment activities performed when investigating measure results would identify if VTE development was as a result of antecedent events immediately prior to hospitalization.

Vote Following Consideration of Public and Member Comments

1. Importance to Measure and Report: Y-19; N-2

2. Scientific Acceptability of Measure Properties: Y-12; N-9

3. Usability: H-4; M-9; L-8; I-0

4. Feasibility: H-2; M-8; L-11; I-0

Steering Committee Recommendation for Endorsement: Y-8; N-14

Rationale: The measure has the potential to indicate whether facilities are adequately assessing patients for their risk of developing VTE and to provide important information on the incidence of VTEs that could have been avoided through appropriate assessment and treatment. However, Committee members felt that the measure requires burdensome data collection efforts and were concerned that

0376 Incidence of Potentially Preventable Venous Thromboembolism those efforts would not yield the intended results. The Committee expressed their preference for a risk-adjusted outcome measure over this kind of process measure. 0501 Confirmation of Endotracheal Tube Placement Measure Submission Form Description: Any time an endotracheal tube is placed into a patients airway in the Emergency Department (ED)or a patient arrives to the ED with an endotracheal tube already in place (via EMS or hospital transfer) there should be appropriate confirmation of ETT placement and documentation of its performance in the medical record. Numerator Statement: Number of ED patients with an endotracheal tube(ETT) placed or assessed with an endotracheal already in place who had the ETT confirmation performed Denominator Statement: Total number of endotracheal tubes evaluated including those patients who had an ETT's placed in the ED and those patients who arruived to the ED with an ETT already in palce. Exclusions: No exclusions Adjustment/Stratification: No risk adjustment or risk stratification Level of Analysis: Clinician : Group/Practice, Clinician : Individual, Facility, Integrated Delivery System, Population : Community Type of Measure: Process Data Source: Administrative claims, Electronic Clinical Data, Electronic Clinical Data : Electronic Health Record, Electronic Clinical Data : Registry, Paper Records The data will need to be collected from each patient's medical record. For those patients that are intubated in the Emergency Department, there will likely be a billed procedure for an endotracheal tube intubation. Other charts like patients who expired or patients who admitted to an ICU may be another source of identification of patients who had an endotracheal tube placed. If a surveillance mechanism is in place (i.e., airway registry) is in place to capture all patients who either arrived intubated or are intubated in the Emergency Department then the data can be collected from there. Measure Steward: Cleveland Clinic STEERING COMMITTEE MEETING 12/15-16/2011 1. Importance to Measure and Report: Y-17; N-3 (1a. High Impact: 1b. Performance Gap. 1c. Evidence) 1a. Impact: H-6; M-3; L-0; I-0; 1b. Performance Gap: H-6; M-3; L-0; I-0 1c. Evidence Quantity: H-3; M-5; L-1; I-0; Quality: H-3; M-4; L-2; I-0; Consistency: H-3; M-4; L-2; I-0 Rationale: The Committee acknowledged the performance gap and that was a strong correlation between an incorrect endotracheal tube placement and morbidity and mortality. They stated that providers may be unfamiliar with best practices and the appropriate methods for assessing endotracheal tube placement but there is evidence in support of specific methods. 2. Scientific Acceptability of Measure Properties: Y-6; N-14 (2a. Reliability - precise specifications, testing; 2b. Validity - testing, threats to validity) 2a. Reliability: H-3; M-3; L-2; I-1; 2b. Validity: H-4; M-4; L-1; I-0 Rationale: The Committee noted that the specifications should include further definitions of what was considered appropriate confirmation, and were concerned about the variability of ET tube placement confirmation. In the future, the Committee encouraged the developer to expand the measure to additional care settings beyond the emergency department. 3. Usability: H-; M-; L-; I-(Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement) 3a. Public Reporting: H-5; M-4; L-0; I-0 3b. QI: H-5; M-4; L-0; I-0 Rationale: 4. Feasibility: H-; M-; L-; I-(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences identified 4d. Data collection strategy can be implemented) 4a. Byproduct of Care Processes: H-3; M-4; L-2; I-0 4b. Electronic data sources: H-2; M-3; L-4; I-0 4c. Suscep inaccuracies, consequences: H-3; M-4; L-2; I-0 4d. Data collection strategy: H-3; M-4; L-2; I-0 Rationale: Steering Committee Recommendation for Endorsement: Did not pass the Importance to Measure criteria, which is required for endorsement.

NATIONAL QUALITY FORUM
0501 Confirmation of Endotracheal Tube Placement
Rationale: The Committee agreed that the measure should be further specified in the future.
Public and Member Comment
No comments were submitted on this measure.
0523 Pain Assessment Conducted
Measure Submission Form
Description: Percentage of home health episodes of care in which the patient was assessed for pain, using a standardized pain
assessment tool, at start/resumption of care.
Numerator Statement: Number of home health episodes of care in which the patient was assessed for pain, using a standardized pain
assessment tool, at start/resumption of care.
Denominator Statement: Number of home health episodes of care ending during the reporting period, other than those covered by
generic exclusions.
Exclusions: No measure specific exclusions. See details of generic exclusions in 2a1.9.
Adjustment/Stratification: No risk adjustment or risk stratification. N/A - process measure. N/A - measure not stratified
Level of Analysis: Facility Type of Measure: Process
Data Source: Electronic Clinical Data OASIS-C
Measure Steward: Centers for Medicare & Medicaid
STEERING COMMITTEE MEETING 12/15-16/2011
1. Importance to Measure and Report: Y-8; N-11
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)
1a. Impact: H-1; M-4; L-; I-0; 1b. Performance Gap: H-0; M-5; L-; I-0
1c. Evidence Quantity: H-3; M-1; L-1; I-0; Quality: H-2; M-1; L-2; I-0; Consistency: H-3; M-0; L-2; I-0
Rationale: The Committee agreed that pain should be assessed across the continuum of care and during each visit for patients who are
receiving home care but noted that there is little evidence that pain assessment alone does not improve outcomes. The Committee
encouraged the developer to link the measure to an appropriate pain treatment plan in the future. Because the measure did not pass
importance to measure and report, the Committee did not discuss the remaining criteria.
2. Scientific Acceptability of Measure Properties: Y-; N-
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity)
2a. Reliability: H-3; M-0; L-1; I-1; 2b. Validity: H-2; M-1; L-1; I-1
Rationale:
3. Usability: H-; M-; L-; I-
(Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement)
3a. Public Reporting: H-2; M-1; L-1; I-1
3b. QI: H-2; M-1; L-1; I-1
Rationale:
4. Feasibility: H-; M-; L-; I-
(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c. Susceptibility to inaccuracies/ unintended consequences
identified 4d. Data collection strategy can be implemented)
4a. Byproduct of Care Processes: H-3; M-0; L-1; I-1
4b. Electronic data sources: H-3; M-0; L-1; I-1
4c. Suscep inaccuracies, consequences: H-3; M-0; L-1; I-1
4d. Data collection strategy: H-3; M-0; L-1; I-1
Rationale: Steering Committee Recommendation for Endorsement: Did not pass the Importance to Measure criteria, which is required for
endorsement.
Rationale: The evidence does not indicate that the assessment of pain alone will lead to an improvement in patient outcomes.
Public and Member Comment
Comments included:
Support for the Steering Committee's decision not to recommend the measure for endorsement
Request for continued endorsement of this measure Request for sharing and the measure of the Stearing Committee (a such state)
Request for clarification on the proper scope of the Steering Committee's evaluation
NQF VOTING DRAFT—DO NOT CITE OR QUOTE

0523 Pain Assessment Conducted
As with measures 0374 and 0375, the Steering Committee had significant concerns about the proximity of the process being measured
by 0523 and the relevant outcomes. Committee members again expressed their reluctance to burden providers with measures that are
not directly linked to better patient outcomes and did not reconsider their initial decision to not recommend the measure.
NQF Staff Note: While this measure was previously endorsed as time-limited, it was included in this project to undergo a full
endorsement maintenance review as it had been endorsed for two and a half years. As a result, the Committee was asked to and did
complete evaluations of the measure against all of the measure evaluation criteria.
0524 Pain Interventions Implemented During Short Term Episodes Of Care
Measure Submission Form
Description: Percentage of short term home health episodes of care during which pain interventions were included in the physician-
ordered plan of care and implemented.
Numerator Statement: Number of home health episodes of care during which pain interventions were included in the physician-ordered
plan of care and implemented.
Denominator Statement: Number of home health episodes of care ending during the reporting period, other than those covered by
generic or measure-specific exclusions.
Exclusions: Episodes in which the patient did not have pain since the last OASIS assessment, as evidenced by a formal assessment
that indicated no pain. Long-term episodes (as indicated by the presence of a follow-up assessment between admission and transfer or
discharge). Episodes ending in patient death.
Adjustment/Stratification: No risk adjustment or risk stratification. N/A - process measure. N/A measure not stratified.
Level of Analysis: Facility
Type of Measure: Process
Data Source: Electronic Clinical Data OASIS-C
Measure Steward: Centers for Medicare & Medicaid
STEERING COMMITTEE MEETING 12/15-16/2011
1. Importance to Measure and Report: Y-7; N-12
(1a. High Impact: 1b. Performance Gap, 1c. Evidence)
1a. Impact: H-2; M-1; L-2; I-0; 1b. Performance Gap: H-2; M-2; L-1; I-0
1c. Evidence Quantity: H-3; M-2; L-0; I-0; Quality: H-2; M-3; L-0-; I-0; Consistency: H-4; M-0; L-1; I-0
Rationale: The Committee agreed that pain should be assessed across the continuum of care but noted that implementing a pain
intervention does not necessarily improve a patient's outcome. The measure did not look at the quality of the intervention and was even more limited due to the fact that it only included patients who reported pain at the time of the OASIS assessment and not every visit.
Because the measure did not pass importance to measure and report, the Committee did not discuss the remaining criteria.
2. Scientific Acceptability of Measure Properties: Y-; N-
(2a. Reliability – precise specifications, testing; 2b. Validity – testing, threats to validity)
2a. Reliability: H-2; M-1; L-2; I-0; 2b. Validity: H-2; M-1; L-2; I-0
Rationale:
3. Usability: H-; M-; L-; I-
(Meaningful, understandable, and useful to the intended audiences for 3a. Public Reporting/Accountability and 3b. Quality Improvement)
3a. Public Reporting: H-1; M-2; L-2; I-0
3b. Ql: H-1; M-2; L-2; I-0
Rationale:
4. Feasibility: H-; M-; L-; I-
(4a. Clinical data generated during care delivery; 4b. Electronic sources; 4c.Susceptibility to inaccuracies/ unintended consequences
identified 4d. Data collection strategy can be implemented)
4a. Byproduct of Care Processes: H-4; M-0; L-1; I-0
4b. Electronic data sources: H-3; M-1; L-1; I-0
4c. Suscep inaccuracies, consequences: H-2; M-2; L-1; I-0
4d. Data collection strategy: H-4; M-0; L-1; I-0
Rationale:
Steering Committee Recommendation for Endorsement: Did not pass the Importance to Measure criteria, which is required for
endorsement.

0524 Pain Interventions Implemented During Short Term Episodes Of Care

Rationale: The evidence does not assess pain on every visit or consider the quality of the pain intervention.

Public and Member Comment Comments included:

- Support for the Steering Committee's decision not to recommend the measure for endorsement
- Request for continued endorsement of this measure
- Request for clarification on the proper scope of the Steering Committee's evaluation

As with measures 0374 and 0375, the Steering Committee had significant concerns about the proximity of the process being measured by 0524 and the relevant outcomes. Committee members again expressed their reluctance to burden providers with measures that are not directly linked to better patient outcomes and did not reconsider their initial decision to not recommend the measure.

<u>NQF Staff Note:</u> While this measure was previously endorsed as time-limited, it was included in this project to undergo a full endorsement maintenance review as it had been endorsed for two and a half years. As a result, the Committee was asked to and did complete evaluations of the measure against all of the measure evaluation criteria.

MEASURES WITHDRAWN FROM CONSIDERATION

Four measures previously endorsed by NQF have not been re-submitted or withdrawn from maintenance of endorsement. Two of these measures were withdrawn after initial submission. The following measures are being retired from endorsement:

Measure	Reason for withdrawal
0019: Documentation of medication list in the	Developer elected not to pursue maintenance
outpatient record	of endorsement.
0020: Documentation of allergies and adverse	Developer elected not to pursue maintenance
reactions in the outpatient record	of endorsement.
0021: Annual monitoring for patients on	Withdrawn related to Steering Committee
persistent medications	discussion.
0503: Anticoagulation for acute pulmonary	This measure was moved to Phase II to provide
embolus	the developer additional time to complete
	testing.

NATIONAL VOLUNTARY CONSENSUS STANDARDS FOR PATIENT SAFETY: COMPLICATIONS ENDORSEMENT MAINTENANCE

APPENDIX A: MEASURE SPECIFICATIONS

The following tables present the detailed specifications for the National Quality Forum (NQF)endorsed® *National Voluntary Consensus Standards Patient Safety: Complications Endorsement Maintenance*. All information presented has been derived directly from measure sources/developers without modification or alteration (except when the measure developed agreed to such modification during the NQF Consensus Development Process) and is current as of February 17, 2012. All NQF-endorsed voluntary consensus standards are open source, meaning they are fully accessible and disclosed. Measures stewards include the Agency for Healthcare Research and Quality, Ambulatory Surgical Center Quality Collaboration, Centers for Medicare & Medicaid Services, National Committee for Quality Assurance, and The Joint Commission.

0022 Use of High Risk Medications in the Elderly A-1
0263 Patient Burn
0267 Wrong Site, Wrong Side, Wrong Patient, Wrong Procedure, Wrong Implant
0344 Accidental Puncture or Laceration Rate (PDI 1)
0345 Accidental Puncture or Laceration Rate (PSI 15)
0346 Iatrogenic Pneumothorax Rate (PSI 6)
0348 Iatrogenic Pneumothorax Rate (PDI 5) A-31
0349 Transfusion Reaction (PSI 16)
0350 Transfusion Reaction (PDI 13)
0362 Foreign Body left after procedure (PDI 3) A-50
0363 Foreign Body Left During Procedure (PSI 5) A-51
0371 Venous Thromboembolism Prophylaxis
0372 Intensive Care Unit Venous Thromboembolism Prophylaxis
0373 Venous Thromboembolism Patients with Anticoagulant Overlap Therapy
0376 Incidence of Potentially Preventable Venous Thromboembolism
0419 Documentation of Current Medications in the Medical Record
0450 Postoperative Pulmonary Embolism or Deep Vein Thrombosis Rate (PSI 12) A-71

	0022 Use of High Risk Medications in the Elderly
Steward	National Committee for Quality Assurance
-	 a: Percentage of Medicare members 65 years of age and older who received at least one high-risk medication. b: Percentage of Medicare members 65 years of age and older who received at least two different high-risk medications. For both rates, a lower rate represents better performance.
Туре	Process

	0022 Use of High Risk Medications in the Elderly
Data Source	Administrative claims, Electronic Clinical Data, Electronic Clinical Data : Pharmacy Healthcare Effectiveness Data and Information Set (HEDIS)
Level	Clinician : Group/Practice, Clinician : Individual, Health Plan, Integrated Delivery System
Setting	Ambulatory Care : Clinician Office, Pharmacy
Numerator Statement	 a: At least one prescription dispensed for any high-risk medication during the measurement year. b: At least two prescriptions dispensed for different high-risk medications during the measurement year.
Numerator Details	Time Window: The measurement year. Antianxiety (includes combination drugs)
	aspirin-meprobamate and meprobamate Antiemetics scopolamine and trimethobenzamide Analgesics (includes combination drugs) acetaminophen-diphenhydramine, diphenhydramine-magnesium salicylate, and ketorolac Antihistamines (includes combination drugs) APAP/dextromethorphan/diphenhydramine, APAP/diphenhydramine/phenylephrine, APAP/dextromethorphan/diphenhydramine, APAP/diphenhydramine/phenylephrine, APAP/diphenhydramine/pseudoephedrine, acetaminophen-diphenhydramine, atropine/CPM/hyoscyamine/PE/PPA/scopolamine, carbetapentane/diphenhydramine/phenylephrine , codeine/phenylephrine/promethazine, codeine-promethazine, cyproheptadine, dexchlorpheniramine, dexchlorpheniramine/dextromethorphan/PSE, dexchlorpheniramine/guaifenesin/PSE , dexchlorpheniramine/hydrocodone/phenylephrine , dexchlorpheniramine/methscopolamine/PSE, dexchlorpheniramine- pseudoephedrine, dextromethorphan-promethazine, diphenhydramine, diphenhydramine-pseudoephedrine, hydroxyzine hydrochloride, hydroxyzine pamoate, phenylephrine-promethazine, promethazine, tripelennamine Antipsychotic, typical
	mesoridazine and thioridazine Amphetamines amphetamine-dextroamphetamine, benzphetamine, dexmethylphenidate, dextroamphetamine, diethylpropion, methamphetamine, methylphenidate, pemoline, phendimetrazine, phentermine Barbiturates amobarbital, butabarbital, mephobarbital, pentobarbital, Phenobarbital, and secobarbital Long-acting benzodiazepines (includes combination drugs) amitriptyline-chlordiazepoxide, chlordiazepoxide, chlordiazepoxide-clidinium, diazepam, and flurazepam Calcium channel blockers nifedipine—short-acting only Gastrointestinal anti-spasmodics dicyclomine and propantheline Belladonna alkaloids (includes combination drugs) atropine, atropine-CPM/hyoscyamine/PE/scopolamine, atropine/hyoscyamine/PB/scopolamine , atropine-difenoxin, atropine- diphenoxylate, atropine-edrophonium, belladonna, belladonna/caffeine/ergotamine/pentobarbital, belladonna/ergotamine/phenobarbital , butabarbital/hyoscyamine/phenazopyridine, digestive enzymes/hyoscyamine/ phenyltoloxamine, hyoscyamine, hyoscyamine/methenam/m-blue/phenyl salicyl, and hyoscyamine-phenobarbital Skeletal muscle relaxants (includes combination drugs) ASA/caffeine/orphenadrine, ASA/carisoprodol/codeine, aspirin-carisoprodol, aspirin-meprobamate, aspirin-methocarbamol, carisoprodol, chlorzoxazone, cyclobenzaprine, metaxalone, methocarbamol. orphenadrine Oral estrogens (includes combination drugs) conjugated estrogen, conjugated estrogen-medroxyprogesterone, esterified estrogen, esterified estrogen-methyltestosterone, estropipate Oral hypoglycemic: chlorpropamide Narcotics (includes combination drugs) ASA/caffeine/propoxyphene, acetaminophen-pentazocine, acetaminophen-propoxyphene, belladonna-opium, meperidine, meperidine-promethazine, naloxone-pentazocine, pentazocine, propoxyphene hydrochloride, and propoxyphene napsylate

	0022 Use of High Risk Medications in the Elderly
	Vasodilators cyclandelate, dipyridamole—short-acting only, ergot mesyloid, isoxsuprine Others (including androgens and anabolic steroids, thyroid drugs, urinary anti-infectives) methyltestosterone, nitrofurantoin, nitrofurantoin macrocrystals, nitrofurantoin macrocrystals-monohydrate, thyroid desiccated
Denominator Statement	All patients ages 65 years and older as of December 31 of the measurement year.
Denominator Details	Time Window: December 31 of the measurement year Use administrative data for eligible population
Exclusions	N/A
Exclusion Details	N/A
Risk Adjustment	No risk adjustment or risk stratification N/A
Stratification	N/A
Type Score	Rate/proportion better quality = lower score
Algorithm	 Step 1. Determine the eligible population. The eligible population is all members who satisfy all specified criteria, including any age, continuous enrollment, benefit, event, or anchor date enrollment requirement. Step 2. Search administrative systems to identify numerator events for all members in the eligible population. Step 3. If applicable, for members for whom administrative data do not show a positive numerator event, search administrative data for an exclusion to the service/procedure being measured. Note: This step applies only to measures for which optional exclusions are specified and for which the organization has chosen to search for exclusions. The organization is not required to search for optional exclusions. Step 4. Exclude from the eligible population members from step 3 for whom administrative system data identified an exclusion to the service/procedure being measured.
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	0263 Patient Burn
Steward	Ambulatory Surgical Center Quality Collaboration
Description	Percentage of ASC admissions experiencing a burn prior to discharge
Туре	Outcome
Data Source	Paper Records ASC medical records, as well as incident/occurrence reports, and variance reports may serve as data sources. No specific collection instrument is required although the ASC Quality Collaboration has developed a sample data collection instrument that may be used as desired. Facilities may use any collection instrument that allows tracking of all burns prior to discharge. URL http://ascquality.org/documents/ASCQualityCollaborationImplementationGuide.pdf Not needed URL http://ascquality.org/documents/ASCQualityCollaborationImplementationGuide.pdf Not needed
Level	Facility
Setting	Ambulatory Care : Ambulatory Surgery Center (ASC)
Numerator Statement	Ambulatory surgical center (ASC) admissions experiencing a burn prior to discharge.
Numerator Details	Time Window: In-facility, prior to discharge DEFINITIONS: Admission: Completion of registration upon entry into the facility. Burn: Unintended tissue injury caused by any of the six recognized mechanisms: scalds, contact, fire, chemical, electrical, or

	0263 Patient Burn
	radiation (e.g. warming devices, prep solutions, electrosurgical unit, or laser). Discharge: Occurs when the patient leaves the confines of the ASC.
Denominator Statement	All ASC admissions.
Denominator Details	Time Window: In-facility, prior to discharge
	DEFNITIONS: Admission: Completion of registration upon entry into the facility.
Exclusions	None
Exclusion Details	No denominator exclusions
Risk Adjustment	No risk adjustment or risk stratification None.
Stratification	This measure is not stratified
Type Score	Rate/proportion better quality = lower score
Algorithm	The number of admissions experiencing a burn prior to discharge is divided by the number of ASC admissions during the reporting period, yielding the rate of burns prior to discharge for the reporting period.
Copyright	None

	0267 Wrong Site, Wrong Side, Wrong Patient, Wrong Procedure, Wrong Implant
Steward	Ambulatory Surgical Center Quality Collaboration
Description	Percentage of ASC admissions experiencing a wrong site, wrong side, wrong patient, wrong procedure, or wrong implant event.
Туре	Outcome
Data Source	Paper Records ASC medical records, as well as incident/occurrence reports, and variance reports may serve as data sources. No specific collection instrument is required although the ASC Quality Collaboration has developed a sample data collection instrument that may be used as desired. Facilities may use any collection instrument that allows tracking of all wrong site, wrong side, wrong patient, wrong procedure, and wrong implant events. URL http://ascquality.org/documents/ASCQualityCollaborationImplementationGuide.pdf Not needed URL http://ascquality.org/documents/ASCQualityCollaborationImplementationGuide.pdf Not needed
Level	Facility
Setting	Ambulatory Care : Ambulatory Surgery Center (ASC)
Numerator Statement	ASC admissions experiencing a wrong site, wrong side, wrong patient, wrong procedure, or wrong implant
Numerator Details	Time Window: In-facility, prior to discharge DEFINITIONS: Admission: completion of registration upon entry into the facility Wrong: not in accordance with intended site, side, patient, procedure or implant
Denominator Statement	All ASC admissions
Denominator Details	Time Window: In-facility, prior to discharge DEFINITION: Admission: completion of registration upon entry into the facility
Exclusions	None
Exclusion Details	Not applicable

	0267 Wrong Site, Wrong Side, Wrong Patient, Wrong Procedure, Wrong Implant
	No risk adjustment or risk stratification Not applicable
Stratification	The measure is not stratified
Type Score	Rate/proportion better quality = lower score
Algorithm	The number of admissions experiencing a wrong site, wrong side, wrong patient, wrong procedure, or wrong implant event is divided by the number of ASC admissions during the reporting period, yielding the rate of wrong site, wrong side, wrong patient, wrong procedure, and wrong implant events for the reporting period.
Copyright	None

	0344 Accidental Puncture or Laceration Rate (PDI 1)
Steward	Agency for Healthcare Research and Quality
	Percent of discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code denoting accidental cut, puncture, perforation, or laceration during a procedure in any secondary diagnosis field.
Туре	Outcome
	Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. URL http://www.hcup-us.ahrq.gov/sidoverview.jsp Not applicable URL http://qualityindicators.ahrq.gov/Downloads/Software/WinQI/V43/AHRQ%20QI%20Software%20Instructions,%20WinQI.pdf Not applicable
	Facility
•	Hospital/Acute Care Facility
Statement	Discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code denoting accidental cut, puncture, perforation, or laceration during a procedure in any secondary diagnosis field.
Details	Time Window: User may specify the time window; generally one calendar year ICD-9-CM Accidental puncture or laceration diagnosis codes: E8700 SURGICAL OPERATION E8701 INFUSION OR TRANSFUSION E8702 KIDNEY DIALYSIS OR OTHER PERFUSION E8703 INJECTION OR VACCINATION E8704 ENDOSCOPIC EXAMINATION E8705 ASPIRATION OF FLUID OR TISSUE, PUNCTURE, AND CATHETERIZATION E8706 HEART CATHETERIZATION E8707 ADMINISTRATION OF ENEMA E8708 OTHER SPECIFIED MEDICAL CARE E8709 UNSPECIFIED MEDICAL CARE E9782 ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
Denominator Statement	All surgical and medical discharges under age 18 defined by specific DRGs or MS-DRGs.
Sidlement	NOE REVIEW DRAFT-DO NOT CITE OR OUOTE

	0344 Accidental Puncture or Laceration Rate (PDI 1)
	Time Window: User may specify the time window; generally one calendar year
Details	
	See Pediatric Quality Indicators Appendices:
	- Appendix B – Surgical Discharge DRGs - Appendix C – Surgical Discharge MS-DRGs
	- Appendix C – Surgical Discharge DRGs
	- Appendix D – Medical Discharge DNGs
	Link to PDI appendices:
	http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PDI%20Appendices.pdf
Exclusions	Exclude cases:
	- with principal diagnosis denoting accidental cut, puncture, perforation, or laceration or secondary diagnosis present on
	admission - normal newborn
	- neonate with birth weight less than 500 grams (Birth Weight Category 1)
	- MDC 14 (pregnancy, childbirth, and puerperium)
	- with ICD-9-CM code for spine surgery
	- with missing discharge gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or
	principal diagnosis (DX1=missing)
	See Pediatric Quality Indicators Appendices:
	- Appendix I – Definitions of, Neonate, Newborn, Normal Newborn, and Outborn
<u> </u>	- Appendix L – Low Birth Weight Categories
Exclusion Details	ICD-9-CM Spine surgery procedure codes: 0301
Details	REMOVAL OF FOREIGN BODY FROM SPINAL CANAL
	0302
	REOPENING OF LAMINECTOMY SITE
	0309
	OTHER EXPLORATION AND DECOMPRESSION OF SPINAL CANAL
	0353
	REPAIR OF VERTEBRAL FRACTURE
	036 LYSIS OF ADHESIONS OF SPINAL CORD AND NERVE ROOTS
	8053
	REPAIR OF THE ANULUS FIBROSUS WITH GRAFT OR PROSTHESIS (OCT08)
	8054
	OTHER AND UNSPECIFIED REPAIR OF THE ANULUS FIBROSUS (OCT08)
	8100
	SPINAL FUSION, NOT OTHERWISE SPECIFIED
	ATLAS-AXIS SPINAL FUSION 8102
	OTHER CERVICAL FUSION, ANTERIOR TECHNIQUE
	8103
	OTHER CERVICAL FUSION, POSTERIOR TECHNIQUE
	8104
	DORSAL AND DORSOLUMBAR FUSION, ANTERIOR TECHNIQUE
	8105
	DORSAL AND DORSOLUMBAR FUSION, POSTERIOR TECHNIQUE
	8106
	LUMBAR AND LUMBOSACRAL FUSION, ANTERIOR TECHNIQUE
	8107 LUMBAR AND LUMBOSACRAL FUSION, LATERAL TRANSVERSE PROCESS TECHNIQUE
	8108

0344 Accidental Puncture or Laceration Rate (PDI 1)
LUMBAR AND LUMBOSACRAL FUSION, POSTERIOR TECHNIQUE
8130
REFUSION OF SPINE, NOT OTHERWISE SPECIFIED
8131 REFUSION OF ATLAS-AXIS SPINE
8132
REFUSION OF OTHER CERVICAL SPINE, ANTERIOR TECHNIQUE
8133
REFUSION OF OTHER CERVICAL SPINE, POSTERIOR TECHNIQUE
8134 REFUSION OF DORSAL AND DORSOLUMBAR SPINE, ANTERIOR TECHNIQUE
8135
REFUSION OF DORSAL AND DORSOLUMBAR SPINE, POSTERIOR TECHNIQUE
8136 Deflución de lumbad and lumbocacidal conne, antediod teclínique
REFUSION OF LUMBAR AND LUMBOSACRAL SPINE, ANTERIOR TECHNIQUE 8137
REFUSION OF LUMBAR AND LUMBOSACRAL SPINE, LATERAL TRANSVERSE PROCESS TECHNIQUE
8138
REFUSION OF LUMBAR AND LUMBOSACRAL SPINE, POSTERIOR TECHNIQUE 8139
REFUSION OF SPINE, NOT ELSEWHERE CLASSIFIED
8162
FUSION OR REFUSION OF 2-3 VERTEBRAE*
8163 FUSION OR REFUSION OF 4-8 VERTEBRAE*
8164
FUSION OR REFUSION OF 9 OR MORE VERTEBRAE*
8165
VERTEBROPLASTY 8166
KYPHOPLASTY
8451
INSERTION OF INTERBODY SPINAL FUSION DEVICE*
8452 INSERTION OF RECOMBINANT BONE MORPHOGENETIC PROTEIN*
8458
IMPLANTATION OF INTERSPINOUS PROCESS DECOMPRESSION DEVICE (PRIOR TO OCT 1, 2007)
INSERTION OF OTHER SPINAL DEVICES 8460
INSERTION OF SPINAL DISC PROSTHESIS, NOT OTHERWISE SPECIFIED
8461
INSERTION OF PARTIAL SPINAL DISC PROSTHESIS, CERVICAL
8462 INSERTION OF TOTAL SPINAL DISC PROSTHESIS, CERVICAL
8463
INSERTION OF SPINAL DISC PROSTHESIS, THORACIC
8464
INSERTION OF PARTIAL SPINAL DISC PROSTHESIS, LUMBOSACRAL 8465
INSERTION OF TOTAL SPINAL DISC PROSTHESIS, LUMBOSACRAL
8466
REVISION OR REPLACEMENT OF ARTIFICIAL SPINAL DISC PROSTHESIS, CERVICAL

	0344 Accidental Puncture or Laceration Rate (PDI 1)
	8467 REVISION OR REPLACEMENT OF ARTIFICIAL SPINAL DISC PROSTHESIS, THORACIC
	8468 REVISION OR REPLACEMENT OF ARTIFICIAL SPINAL DISC PROSTHESIS, LUMBOSACRAL
	8469 REVISION OR REPLACEMENT OF ARTIFICIAL SPINAL DISC PROSTHESIS, NOT OTHERWISE SPECIFIED
	8480 INSERTION OR REPLACEMENT OF INTERSPINOUS PROCESS DEVICE(S) 8481
	REVISION OF INTERSPINOUS PROCESS DEVICE(S) 8482
	INSERTION OR REPLACEMENT OF PEDICLE-BASED DYNAMIC STABILIZATION DEVICE(S) 8483
	REVISION OF PEDICLE-BASED DYNAMIC STABILIZATION DEVICE(S) 8485
	REVISION OF FACET REPLACEMENT DEVICE(S) * code has "code also" instructions
	See Pediatric Quality Indicators Appendices: - Appendix I – Definitions of, Neonate, Newborn, Normal Newborn, and Outborn - Appendix L – Low Birth Weight Categories
	Link to PDI appendices: http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PDI%20Appendices.pdf
Risk Adjustment	Statistical risk model The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) ar covariates for gender, birthweight (500g groups), age in days (29-60, 61-90, 91+), age in years (in 5-year age groups), modified CMS DRG and AHRQ CCS comorbities. The reference population used in the regression is the universe of discharges for states that participate in the HCUP State Inpatient Data (SID) for the years 2008, a database consisting of 43 states and approximately 6 million pediatric discharges. The expected rate is computed as the sum of the predicted value fo each case divided by the number of cases for the unit of analysis of interest (i.e., hospital). The risk adjusted rate is compute using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference population rate. Covariates used in this measures: MDC 5 MDC 6 MDC 11 MDC 15 MDC 0THER Procedure Type 2 Procedure Type 4 Procedure Type 4 Procedure Type 5 Procedure Type 5 Procedure Type 7 *** Risk adjust by risk category (Procedure Type) 1. No therapeutic procedure with any or no diagnostic procedures 3. One major therapeutic with only minor diagnostic procedures 3. One major therapeutic with only minor diagnostic procedures 3. One major therapeutic with any or no diagnostic procedures 4. One major therapeutic with any or no diagnostic procedures 5. One major therapeutic with only minor diagnostic procedures 7. Three or more major therapeutic with any or no diagnostic procedures 7. Three or more major therapeutic with any or no diagnostic procedures 7. Three or more major therapeutic with any or no diagnostic procedures 7. Three or more major therapeutic with any or no diagnostic procedures; 7. Three or more major therapeutic procedures with any or no diagnostic procedures; 7. Three or more major therapeutic procedures with any or no diagnostic procedures; 7. Three or more major therapeutic procedures with any or no diagnostic procedures; 7. Three or more ma
	applicable
Stratification	Clinical categories for PDI 1 are based on Major Diagnostic Categories (MDC).

	0344 Accidental Puncture or Laceration Rate (PDI 1)
	Stratum 1. Eye, ear, nose, mouth, throat, skin, breast, and other low-risk procedures (MDC 2, 3, 9, 19, 22, 23)
	Stratum 2. Thoracic, cardiovascular, and specified neoplastic procedures
	(MDC 4, 5, 17) Stratum 3. Kidney, and male/female reproductive procedures
	MDC 11, 12, 13) Stratum 4. Infectious, immunological, hematological, and ungroupable procedures
	(MDC 0/99, 16, 18, 25) Stratum 5. Trauma, orthopedic, and neurologic procedures
	(MDC 1, 8, 21, 24) Stratum 6. Gastrointestinal, hepatobiliary, and endocrine procedures (MDC 6, 7, 10)
Type Score	Rate/proportion better quality = lower score
Algorithm	Each indicator is expressed as a rate, is defined as outcome of interest / population at risk or numerator / denominator. The AHRQ Quality Indicators (AHRQ QI) software performs six 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. For indicators that are not risk-adjusted, this is the reference population rate. 5) Calculate risk-adjusted rate. Use the indirect standardization to account for case-mix. For indicators that are not risk-adjusted, this is the same as the observed rate. 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 URL Not applicable http://qualityindicators.ahrq.gov/Downloads/Resources/Publications/2011/QI%20Empirical%20Methods%2005-03-11.pdf
Copyright	Not applicable

	0345 Accidental Puncture or Laceration Rate (PSI 15)
Steward	Agency for Healthcare Research and Quality
Description	Percent of discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code denoting accidental cut, puncture, perforation, or laceration during a procedure in any secondary diagnosis field.
Туре	Outcome
Data Source	Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. URL http://www.hcup-us.ahrq.gov/sidoverview.jsp Not applicable URL http://qualityindicators.ahrq.gov/Downloads/Software/WinQI/V43/AHRQ%20QI%20Software%20Instructions,%20WinQI.pdf Not applicable
Level	Facility
Setting	Hospital/Acute Care Facility
Numerator Statement	Discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code denoting accidental cut, puncture, perforation, or laceration during a procedure in any secondary diagnosis field.
Numerator Details	Time Window: User may specify the time window; generally one calendar year ICD-9-CM Accidental puncture or laceration diagnosis codes: E8700 SURGICAL OPERATION E8701 INFUSION OR TRANSFUSION E8702 KIDNEY DIALYSIS OR OTHER PERFUSION E8703

	0345 Accidental Puncture or Laceration Rate (PSI 15)
	INJECTION OR VACCINATION
	E8704
	ENDOSCOPIC EXAMINATION
	E8705
	ASPIRATION OF FLUID OR TISSUE, PUNCTURE, AND CATHETERIZATION
	E8706 HEART CATHETERIZATION
	E8707
	ADMINISTRATION OF ENEMA
	E8708 OTHER SPECIFIED MEDICAL CARE
	UNSPECIFIED MEDICAL CARE 9982
	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
	All surgical and medical discharges age 18 years and older defined by specific DRGs or MS-DRGs.
Statement	
Denominator Details	Time Window: User may specify the time window; generally one calendar year
	See Patient Safety Indicators Appendices:
	- Appendix B – Medical Discharge DRGs
	- Appendix C – Medical Discharge MS-DRGs
	- Appendix D – Surgical Discharge DRGs
	- Appendix E – Surgical Discharge MS-DRGs Link to PSI appendices:
	http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PSI%20Appendices.pdf
Exclusions	Exclude cases:
	- with principal diagnosis denoting accidental cut, puncture, perforation, or laceration or secondary diagnosis present on admission
	- MDC 14 (pregnancy, childbirth, and puerperium)
	- with ICD-9-CM code for spine surgery
	- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal
	diagnosis (DX1=missing)
	ICD-9-CM Spine surgery procedure codes:
Details	0301 REMOVAL OF FOREIGN BODY FROM SPINAL CANAL 0302
	REOPENING OF LAMINECTOMY SITE 0309
	OTHER EXPLORATION AND DECOMPRESSION OF SPINAL CANAL
	0353
	REPAIR OF VERTEBRAL FRACTURE
	036 LYSIS OF ADHESIONS OF SPINAL CORD AND NERVE ROOTS
	8053
	REPAIR OF THE ANULUS FIBROSUS WITH GRAFT OR PROSTHESIS (OCT08)
	8054 OTHER AND UNSPECIFIED REPAIR OF THE ANULUS FIBROSUS (OCT08)
	8100 SPINAL FUSION, NOT OTHERWISE SPECIFIED
	8101 ATLAS-AXIS SPINAL FUSION
L	

0345 Accidental Puncture or Laceration Rate (PSI 15)
8102
OTHER CERVICAL FUSION, ANTERIOR TECHNIQUE 8103
OTHER CERVICAL FUSION, POSTERIOR TECHNIQUE
8104
DORSAL AND DORSOLUMBAR FUSION, ANTERIOR TECHNIQUE 8105
DORSAL AND DORSOLUMBAR FUSION, POSTERIOR TECHNIQUE
8106
LUMBAR AND LUMBOSACRAL FUSION, ANTERIOR TECHNIQUE 8107
LUMBAR AND LUMBOSACRAL FUSION, LATERAL TRANSVERSE PROCESS TECHNIQUE
8108
LUMBAR AND LUMBOSACRAL FUSION, POSTERIOR TECHNIQUE
8130 REFUSION OF SPINE, NOT OTHERWISE SPECIFIED
8131
REFUSION OF ATLAS-AXIS SPINE
8132
REFUSION OF OTHER CERVICAL SPINE, ANTERIOR TECHNIQUE 8133
REFUSION OF OTHER CERVICAL SPINE, POSTERIOR TECHNIQUE
8134
REFUSION OF DORSAL AND DORSOLUMBAR SPINE, ANTERIOR TECHNIQUE 8135
REFUSION OF DORSAL AND DORSOLUMBAR SPINE, POSTERIOR TECHNIQUE
8136
REFUSION OF LUMBAR AND LUMBOSACRAL SPINE, ANTERIOR TECHNIQUE 8137
REFUSION OF LUMBAR AND LUMBOSACRAL SPINE, LATERAL TRANSVERSE PROCESS TECHNIQUE
8138
REFUSION OF LUMBAR AND LUMBOSACRAL SPINE, POSTERIOR TECHNIQUE
8139 REFUSION OF SPINE, NOT ELSEWHERE CLASSIFIED
8162
FUSION OR REFUSION OF 2-3 VERTEBRAE*
8163 FUSION OR REFUSION OF 4-8 VERTEBRAE*
8164
FUSION OR REFUSION OF 9 OR MORE VERTEBRAE*
8165 VERTEBROPLASTY
8166
KYPHOPLASTY
INSERTION OF INTERBODY SPINAL FUSION DEVICE* 8452
INSERTION OF RECOMBINANT BONE MORPHOGENETIC PROTEIN*
IMPLANTATION OF INTERSPINOUS PROCESS DECOMPRESSION DEVICE (ONLY BEFORE OCT 1, 2007) 8459
INSERTION OF OTHER SPINAL DEVICES
8460

	0345 Accidental Puncture or Laceration Rate (PSI 15)
	INSERTION OF SPINAL DISC PROSTHESIS, NOT OTHERWISE SPECIFIED
	8461 INSERTION OF PARTIAL SPINAL DISC PROSTHESIS, CERVICAL
	8462
	INSERTION OF TOTAL SPINAL DISC PROSTHESIS, CERVICAL
	8463 INSERTION OF SPINAL DISC PROSTHESIS, THORACIC
	8464
	INSERTION OF PARTIAL SPINAL DISC PROSTHESIS, LUMBOSACRAL 8465
	INSERTION OF TOTAL SPINAL DISC PROSTHESIS, LUMBOSACRAL
	8466 REVISION OR REPLACEMENT OF ARTIFICIAL SPINAL DISC PROSTHESIS, CERVICAL
	8467
	REVISION OR REPLACEMENT OF ARTIFICIAL SPINAL DISC PROSTHESIS, THORACIC 8468
	REVISION OR REPLACEMENT OF ARTIFICIAL SPINAL DISC PROSTHESIS, LUMBOSACRAL
	8469 REVISION OR REPLACEMENT OF ARTIFICIAL SPINAL DISC PROSTHESIS, NOT OTHERWISE SPECIFIED
	8480 INSERTION OR REPLACEMENT OF INTERSPINOUS PROCESS DEVICE(S)
	8481 REVISION OF INTERSPINOUS PROCESS DEVICE(S)
	8482
	INSERTION OR REPLACEMENT OF PEDICLE-BASED DYNAMIC STABILIZATION DEVICE(S)
	8483 REVISION OF PEDICLE-BASED DYNAMIC STABILIZATION DEVICE(S)
	8485
	REVISION OF FACET REPLACEMENT DEVICE(S)
Risk Adjustment	Statistical risk model The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) and covariates for gender, age, modified CMS DRG, transfer status, procedure day availability, and the AHRQ Comorbidity category. The reference population used in the regression is the universe of discharges for states that participate in the HCUP State Inpatient Data (SID) for the years 2008, a database consisting of 42 states and approximately 30 million adult discharges. The expected rate is computed as the sum of the predicted value for each case divided by the number of cases for the unit of analysis of interest (i.e., hospital). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference population rate. Covariates used in this measures: Sex Female Age 18 to 24 Age 25 to 29 Age 0 to 59 MDRG 101 MDRG 107 MDRG 302 MDRG 101 MDRG 502 MDRG 503 MDRG 503 MDRG 503 MDRG 504

0345 Ac	ccidental Puncture or Laceration Rate (PSI 15)
MDRG	506
MDRG	507
MDRG	508
MDRG	510
MDRG	511
MDRG	513
MDRG	514
MDRG	519
MDRG	520
MDRG	522
MDRG	601
MDRG	602
MDRG	603
MDRG	604
MDRG	606
MDRG	609
MDRG	610
MDRG	611
MDRG	621
MDRG	701
MDRG	702
MDRG	703
MDRG	704
MDRG	705
MDRG	712
MDRG	806
MDRG	807
MDRG	815
MDRG	816
MDRG	1001
MDRG	1003
MDRG	1005
MDRG	1006
MDRG	1101
MDRG	1102
MDRG	1103
MDRG	1104
MDRG	1105
MDRG	1107
MDRG	1109
MDRG	1201
MDRG	1204
MDRG	1301
MDRG	1302
MDRG	1303
MDRG	1304
MDRG	1305
MDRG	1306
MDRG	1307
MDRG	1308
MDRG	1707
MDRG	1709
MDRG	1801

	0345 Accidental Puncture or Laceration Rate (PSI 15)
	MDRG 1802
	MDRG 2104
	MDRG 2108
	MDRG 2408
	MDRG 7702
	MDC 3
	MDC 4
	MDC 5
	MDC 6
	MDC 7
	MDC 8 MDC 9
	MDC 9 MDC 11
	MDC 12
	MDC 13
	MDC 16
	MDC 17
	MDC 18
	MDC 21
	MDC 24
	MDC Other
	TRNSFER Transfer-in
	NOPRDAY Procedure Days Data Not Available
	COMORB PERIVASC
	COMORB DM
	COMORB DMCX
	COMORB RENLFAIL
	COMORB OBESE
	COMORB WGHTLOSS
	COMORB BLDLOSS
	COMORB ANEMDEF
	URL http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/Risk%20Adjustment%20Tables%20PSI%204.3.pdf Not
	applicable
	Not applicable
5.	Rate/proportion better quality = lower score
	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 six 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. For indicators that are not risk-adjusted, this is the reference population
	rate. 5) Calculate risk-adjusted rate. Use the indirect standardization to account for case-mix. For indicators that are not risk-
	adjusted, this is the same as the observed rate. 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 URL Not applicable
	http://qualityindicators.ahrq.gov/Downloads/Resources/Publications/2011/QI%20Empirical%20Methods%2005-03-11.pdf
	Not applicable
Sopjingin	

	0346 latrogenic Pneumothorax Rate (PSI 6)
Steward	Agency for Healthcare Research and Quality
Description	Percent of discharges with ICD-9-CM code for iatrogenic pneumothorax in any secondary diagnosis field among cases

	0346 latrogenic Pneumothorax Rate (PSI 6)
	meeting the inclusion and exclusion rules for the denominator
Туре	Outcome
Data Source	Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. URL http://www.hcup-us.ahrq.gov/sidoverview.jsp Not applicable URL http://qualityindicators.ahrq.gov/Downloads/Software/WinQI/V43/AHRQ%20QI%20Software%20Instructions,%20WinQI.pdf Not applicable
Level	Facility
Setting	Hospital/Acute Care Facility
Numerator Statement	Discharges with ICD-9-CM code for iatrogenic pneumothorax in any secondary diagnosis field among cases meeting the inclusion and exclusion rules for the denominator.
Numerator	Time Window: User may specify the time window; generally one calendar year
Details	ICD-9-CM latrogenic Pneumothorax diagnosis code: 5121 IATROGENIC PNEUMOTHORAX
Denominator Statement	All surgical and medical discharges age 18 years and older defined by specific DRGs or MS-DRGs.
Denominator Details	Time Window: User may specify the time window; generally one calendar year
	See Patient Safety Indicators Appendices: - Appendix B – Medical Discharge DRGs - Appendix C – Medical Discharge MS-DRGs - Appendix D – Surgical Discharge DRGs - Appendix E – Surgical Discharge MS-DRGs Link to PSI appendices: http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PSI%20Appendices.pdf
Exclusions	Exclude cases: - with principal diagnosis of iatrogenic pneumothorax or secondary diagnosis present on admission - MDC 14 (pregnancy, childbirth, and puerperium) - with any diagnosis code of chest trauma or pleural effusion - with a code of diaphragmatic surgery repair in any procedure field - with any code indicating thoracic procedure, lung or pleural biopsy, or cardiac procedure - with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)
Exclusion Details	ICD-9-CM Chest trauma diagnosis codes: 80700 FRACTURE RIB NOS-CLOSED 80701 FRACTURE ONE RIB-CLOSED 80702 FRACTURE TWO RIBS-CLOSED 80703 FRACTURE THREE RIBS-CLOS 80704 FRACTURE FOUR RIBS-CLOSE 80705 FRACTURE FIVE RIBS-CLOSE 80706 FRACTURE SIX RIBS-CLOSED 80707

0346 latrogenic Pneumothorax Rate (PSI 6)
FRACTURE SEVEN RIBS-CLOS
80708
FX EIGHT/MORE RIB-CLOSED
80709
FX MULT RIBS NOS-CLOSED
80710
FRACTURE RIB NOS-OPEN
80711
FRACTURE ONE RIB-OPEN
80712 FRACTURE TWO RIBS-OPEN
80713
FRACTURE THREE RIBS-OPEN
80714
FRACTURE FOUR RIBS-OPEN
80715
FRACTURE FIVE RIBS-OPEN
80716
FRACTURE SIX RIBS-OPEN
80717
FRACTURE SEVEN RIBS-OPEN
80718
FX EIGHT/MORE RIBS-OPEN 80719
FX MULT RIBS NOS-OPEN
8072
FRACTURE OF STERNUM-CLOS
8073
FRACTURE OF STERNUM-OPEN
8074
FLAIL CHEST
FX LARYNX/TRACHEA-CLOSED 8076
FX LARYNX/TRACHEA-OPEN
8090
FRACTURE TRUNK BONE-CLOS
8091
FRACTURE TRUNK BONE-OPEN
8600
TRAUM PNEUMOTHORAX-CLOSE
8601
TRAUM PNEUMOTHORAX-OPEN
8602 TRAUM HEMOTHORAX-CLOSED
8603
TRAUM HEMOTHORAX-OPEN
8604
TRAUM PNEUMOHEMOTHOR-CL
8605
TRAUM PNEUMOHEMOTHOR-OPN
86100
HEART INJURY NOS-CLOSED

0346 latrogenic Pneumothorax Rate (PSI 6)
86101
HEART CONTUSION-CLOSED
86102
HEART LACERATION-CLOSED
86103
HEART CHAMBER LACERAT-CL
86110
HEART INJURY NOS-OPEN
86111
HEART CONTUSION-OPEN
86112
HEART LACERATION-OPEN
86113
HEART CHAMBER LACER-OPN
86120
LUNG INJURY NOS-CLOSED
86121
LUNG CONTUSION-CLOSED
86122
LUNG LACERATION-CLOSED
86130
LUNG INJURY NOS-OPEN
86131
LUNG CONTUSION-OPEN
86132
LUNG LACERATION-OPEN
8620
DIAPHRAGM INJURY-CLOSED
8621
DIAPHRAGM INJURY-OPEN
86221
BRONCHUS INJURY-CLOSED
86222
ESOPHAGUS INJURY-CLOSED
86229
INTRATHORACIC INJ NEC-CL
86231
BRONCHUS INJURY-OPEN
86232
ESOPHAGUS INJURY-OPEN
86239
INTRATHORAC INJ NEC-OPEN 8628
INTRATHORACIC INJ NOS-CL
8629
INTRATHORAC INJ NOS-OPEN
8750 OPEN WOLLND OF CHEST
OPEN WOUND OF CHEST
OPEN WOUND CHEST-COMPL
8760 8750
OPEN WOUND OF BACK
8761

0346 latrogenic Pneumothorax Rate (PSI 6)
OPEN WOUND BACK-COMPL
9010
INJURY THORACIC AORTA
9011
INJ INNOMIN/SUBCLAV ART
9012
INJ SUPERIOR VENA CAVA
INJ INNOMIN/SUBCLAV VEIN 90140
INJ PULMONARY VESSEL NOS
90141
INJURY PULMONARY ARTERY
90142
INJURY PULMONARY VEIN
90181
INJ INTERCOSTAL ART/VEIN
90182
INJ INT MAMMARY ART/VEIN
90183
INJ MULT THORACIC VESSEL
90189
INJ THORACIC VESSEL NEC
INJ THORACIC VESSEL NOS
9110 ABRASION TRUNK
9111
ABRASION TRUNK-INFECTED
9118
SUPERFIC INJU TRUNK NEC
9119
SUPERFIC INJU TRUNK NEC-INF
9220
CONTUSION OF BREAST
9221
CONTUSION OF CHEST WALL
9223
BACK CONTUSION
92231 PACK CONTUSION
BACK CONTUSION 92233
INTERSCPLR REG CONTUSION
9228
MULIPLE CONTUSION TRUNK
9229
CONTUSION OF TRUNK
92611
CRUSHING INJURY BACK
92619
CRUSHING INJ TRUNK NEC
9268
MULT CRUSHING INJ TRUNK

0346 latrogenic Pneumothorax Rate (PSI 6)
9269
CRUSHING INJ TRUNK NOS
9290
CRUSH INJ MULT SITE NEC
9299 CRUSHING INJURY NOS
9541
INJ SYMPA NERVE NEC
9548
INJURY TRUNK NERVE NEC
9549
INJURY TRUNK NERVE NOS
95911
INJURY OF CHEST WALL NEC
95919 TRUNK INJURY-SITES NEC
9599
INJURY-SITE NOS
ICD-9-CM Pleural effusion diagnosis codes:
0101
TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS
01010
TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS, UNSPECIFIED
TPIPPT, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE 01012
TPIPPT, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN
01013
TPIPPT, TUBERCLE BACILI FOUND BY MICROSCOPY
01014
TPIPPT, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE
01015
TPIPPT, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY
01016
TPIPPT, TUBERCLE BACILI NOT FOUND BY BACTERILOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS
0117
TUBRCULOUS PNEUMOTHORAX
01170
TUBRCULOUS PNEUMOTHORAX, UNSPECIFIED
01171
TPNEU, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE
TPNEU, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN
01173 TPNEU, TUBERCLE BACILI FOUND BY MICROSCOPY
01174
TPNEU, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE
01175
TPNEU, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY
01176
TPENU, TUBERCLE BACILI NOT FOUND BY BACTERILOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER
METHODS

0346 latrogenic Pneumothorax Rate (PSI 6)
0120
TUBERCULOUS PLEURISY 01200
TUBERCULOUS PLEURISY, UNSPECIFIED
01201
TP, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE
01202
TP, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN
01203 TP, TUBERCLE BACILI FOUND BY MICROSCOPY
01204
TP, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE
01205
TP, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY
01206 TP, TUBERCLE BACILI NOT FOUND BY BACTERILOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS
1972
SECOND MALIG NEO PLEURA
ICD9-CM Diaphragmatic surgery repair codes:
ABD REPAIR-DIAPHR HERNIA 5371
LAPAROSCOPIC REPAIR OF DIAPHRAGMATIC HERNIA, ABDOMINAL APPROACH (OCT08)
5372
OTHER AND OPEN REPAIR OF DIAPHRAGMATIC HERNIA, ABDOMINAL APPROACH (OCT08)
5375
REPAIR OF DIAPHRAGMATIC HERNIA, ABDOMINAL APPROACH, NOS (OCT08) 5380
THOR REP-DIAPH HERN NOS
5381
DIAPHRAGMATIC PLICATION
PARASTERN HERNIA REPAIR 5583
LAPAROSCOPIC REPAIR OF DIAPHRAGMATIC HERNIA, WITH THORACIC APPROACH (OCT08)
5584
OTHER AND OPEN REPAIR OF DIAPHRAGMATIC HERNIA, WITH THORACIC APPROACH (OCT08)
ICD-9-CM Thoracic surgery procedure codes: 0522
USZZ SYMPATHECTOMY CERVICAL
0523
SYMPATHECTOMY LUMBAR
OTHER SYMPATHECTOMY AND GANGLIONECTOMY 0780
THYMECTOMY, NOT OTHERWISE SPECIFIED
0781
OTHER PARTIAL EXCISION OF THYMUS
OTHER TOTAL EXCISION OF THYMUS 0783
THORACOSCOPIC PARTIAL EXCISION OF THYMUS
0784

	0346 latrogenic Pneumothorax Rate (PSI 6)
	THORACOSCOPIC TOTAL EXCISION OF THYMUS
	3121
	MEDIASTINAL TRACHEOSTOMY
	3145 OPEN BIOPSY OF LARYNX OR TRACHEA
	3173
	CLOSURE OF OTHER FISTULA OF TRACHEA
	3179
	OTHER REPAIR AND PLASTIC OPERATIONS ON TRACHEA 3199
	OTHER OPERATIONS ON TRACHEA
	OTHER LOCAL EXCISION OR DESTRUCTION OF LESION OR TISSUE OF BRONCHUS 321
	OTHER EXCISION OF BRONCHUS 3220
	THORAC EXC LUNG LESION
	Local excision or destruction of lesion or tissue of lung 3221
	PLICATION OF EMPHYSEMATIOUS BLEB
	3222 LUNG VOLUME REDUCTION SURGERY
	3223
	OPEN ABLTN LUNG LES/TISS (OCT06) 3224
	PERC ABLTN LUNG LES/TISS (OCT06)
	3225
	THOR ABLTN LUNG LES/TISS (OCT06)
	3226
	ABLTN LUNG TISS NEC/NOS (OCT06)
	3227 BRNC THRMPLSTY, ABLT MSCL
	3228
	ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OR TISSUE OF LUNG
	3229
	OTHER LOCAL EXCISION OR DESTRUCTION OF LESION OR TISSUE OF LUNG
	323 SEGMENTAL RESECTION OF LUNG
	3230
	THORAC SEG LUNG RESECT
	3239
	OTH SEG LUNG RESECT NOS
	LOBECTOMY OF LUNG 3241
	THORAC LOBECTOMY LUNG
	3249
	OTHER LOBECTOMY OF LUNG
	COMPLETE PNEUMONECTOMY 3250
	3250 THORACOSPC PNEUMONECTOMY
	3259
L	- I

	0346 latrogenic Pneumothorax Rate (PSI 6)
	OTHER PNEUMONECTOMY NOS
	326
	RADICAL DISSECTION OF THORACIC STRUCTURES
	329
	OTHER EXCISION OF LUNG
	330
	INCISION OF BRONCHUS
	331 INCISION OF LUNG
	3320
	THORACOSCOPC LUNG BIOPSY
	3325
	OPEN BIOPSY OF BRONCHUS
	3327
	CLOSED ENDOSCOPIC BIOPSY OF LUNG
	3331
	DESTRUCTION OF PHRENIC NERVE FOR COLLAPSE OF LUNG (NO LONGER PERFORMED)
	3332 ARTIFICIAL PNEUMOTHORAX FOR COLLAPSE OF LUNG
	3334
	THORACOPLASTY
	3339
	OTHER SURGICAL COLLAPSE OF LUNG
	Repair and plastic operation on lung and bronchus
	3341
	SUTURE OF LACERATION OF BRONCHUS
	3342
	CLOSURE OF BRONCHIAL FISTULA
	3343 CLOSURE OF LACERATION OF LUNG
	3348
	OTHER REPAIR AND PLASTIC OPERATIONS ON BRONCHUS
	3349
	OTHER REPAIR AND PLASTIC OPERATIONS ON LUNG
	Lung transplant
	335
	LUNG TRANSPLANTATION
	LUNG TRANSPLANTATION, NOS 3351
	UNILATERAL LUNG TRANSPLANTATION
	3352
	BILATERAL LUNG TRANSPLANTATION
	336
	COMBINED HEART-LUNG TRANSPLANTATION
	3392
	LIGATION OF BRONCHUS
	PUNCTURE OF LUNG 3398
	OTHER OPERATIONS ON BRONCHUS
	3399
	OTHER OPERATIONS ON LUNG
L	

0346 latrogenic Pneumothorax Rate (PSI 6)
3329 OTHER DIAGNOSTIC PROCEDURE ON LUNG AND BRONCHUS
3333
PNEUMOPERITONEUM FOR COLLAPSE OF LUNG
3401
INCISION OF CHEST WALL 3402
EXPLORATORY THORACOTOMY
3403
REOPENING OF RECENT THORACOTOMY SITE
3405 CREATION OF PLEUROPERITONEAL SHUNT
3409
OTHER INCISION OF PLEURA
341
INCISION OF MEDIASTINUM
Diagnostic procedures on chest wall, pleura, mediastinum, and diaphragm 3420
THORACOSCOPIC PLEURAL BX
3421
TRANSPLEURAL THORACOSOCOPY
3422
MEDIASTINOSCOPY 3423
BIOPSY OF CHEST WALL
3425
CLOSED [PERCUTANEOUS][NEEDLE] BIOPSY OF MEDIASTINUM
3426
OPEN BIOPSY OF MEDIASTINUM 3427
BIOPSY OF DIAPHRAGM
3428
OTHER DIAGNOSTIC PROCEDURES ON CHEST WALL, PLEURA, AND DIAPHRAGM
3429 OTHER DIAGNOSTIC PROCEDURES ON MEDIASTINUM
343
EXCISION OR DESTRUCTION OF LESION OR TISSUE OF MEDIASTINUM
344
EXCISION OR DESTRUCTION OF LESION OF CHEST WALL 3451
DECORTICATION OF LUNG
3452
THORACOSCOPC DECORT LUNG
3459
OTHER EXCISION OF PLEURA Repair of chest wall
3471
SUTURE OF LACERATION OF CHEST WALL
3472
CLOSURE OF THORACOSTOMY
3473 CLOSURE OF OTHER FISTULA OF THORAX
3474

0346 latrogenic Pneumothorax Rate (PSI 6)
REPAIR OF PECTUS DEFORMITY
3479 OTHER REPAIR OF CHEST WALL
OTHER REPAIR OF CHEST WALL Operations on diaphragm
3481
EXCISION OF LESION OR TISSUE OF DIAPHRAGM
3482
SUTURE OF LACERATION OF DIAPHRAGM 3483
CLOSURE OF FISTULA OF DIAPHRAGM 3484
OTHER REPAIR OF DIAPHRAGM 3485
IMPLANTATION OF DIAPHRAGMATIC PACEMAKER
3489 OTHER OPERATIONS ON DIAPHRAGM
3493 REPAIR OF PLEURA
3499
OTHER OPERATIONS ON THORAX, OTHER
Operations on thoracic duct 4061
CANNULATION OF THORACIC DUCT
4062 FISTULIZATION OF THORACIC DUCT
4063
CLOSURE OF FISTULA OF THORACIC DUCT
4064 LIGATION OF THORACIC DUCT
4069
OTHER OPERATIONS ON THORACIC DUCT
Esophagotomy
4201
INCISION OF ESOPHAGEAL WEB
4209 OTHER INCISION OF ESOPHAGUS
4210
ESOPHAGOSTOMY, NOS 4211
CERVICAL ESOPHAGOSTOMY
EXTERIORIZATION OF ESOPHAGEAL POUCH 4219
OTHER EXTERNAL FISTULIZATION OF ESOPHAGUS
4221
OPERATIVE ESOPHAGOSCOPY BY INCISION 4225
OPEN BIOPSY OF ESOPHAGUS
4231 LOCAL EXCISION OF ESOPHAGEAL DIVERTICULUM
4232
LOCAL EXCISION OF OTHER LESION OR TISSUE OF ESOPHAGUS
Excision of esophagus

0346 latrogenic Pneumothorax Rate (PSI 6)
4239
OTHER DESTRUCTION OF LESION OR TISSUE OF ESOPHAGUS 4240
ESOPHAGECTOMY, NOS
4241
PARTIAL ESOPHAGECTOMY
4242 TOTAL ESOPHAGECTOMY
Intrathoracic anastomosis of exophagus
4251
INTRATHORACIC ESOPHAGOESOPHAGOSTOMY
INTRATHORACIC ESOPHAGOGASTROSTOMY 4253
INTRATHORACIC ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF SMALL BOWEL 4254
OTHER INTRATHORACIC ESOPHAGOENTEROSTOMY 4255
INTRATHORACIC ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF COLON 4256
OTHER INTRATHORACIC ESOPHAGOCOLOSTOMY
INTRATHORACIC ESOPHAGEAL ANASTOMOSIS W/ OTHER INTERPOSITION 4259
OTHER INTRATHORACIC ANASTOMOSIS OF ESOPHAGUS
Antesternal anastomosis
4261
ANTESTERNAL ESOPHAGOESOPHAGOSTOMY 4262
ANTESTERNAL ESOPHAGOGASTROSTOMY
4263
ANTESTERNAL ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF SMALL BOWEL
4264
OTHER ANTESTERNAL ESOPHAGOENTEROSTOMY 4265
ANTESTERNAL ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF COLON
4266
OTHER ANTESTERNAL ESOPHAGOCOLOSTOMY
4268 OTHER ANTESTERNAL ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION
4269
OTHER ANTESTERNAL ANASTOMOSIS OF ESOPHAGUS
Other repair of esophagus
427
ESOPHAGOMYOTOMY 4281
INSERTION OF PERMANENT TUBE INTO ESOPHAGUS
4282
SUTURE OF LACERATION OF ESOPHAGUS
CLOSURE OF ESOPHAGOSTOMY 4284
REPAIR OF ESOPHAGEAL FISTULA, NEC

 0346 latrogenic Pneumothorax Rate (PSI 6)
4285
REPAIR OF ESOPHAGEAL STRICTURE
4286 PRODUCTION OF SUBCUTANEOUS TUNNEL W/O ESOPHAGEAL ANASTOMOSIS
4287
OTHER GRAFT OF ESOPHAGUS
4289
OTHER REPAIR OF ESOPHAGUS
435
PROXIMAL GASTRECTOMY 4399
TOTAL GASTRECTOMY NEC
4465
ESOPHAGOGASTROPLASTY
4466
OTHER PROCEDURES FOR CREATION OF ESOPHAGOGASTRIC SPHINCTERIC COMPETENCE
4467 LAP CREAT ESOPH SPHINCT
1781
OTH CHEST CAGE OSTECTOMY
7791
TOT CHEST CAGE OSTECTOMY
DORSAL AND DORSO-LUMBAR FUSION, ANTERIOR TECHNIQUE 8134
REFUSION OF DORSAL AND DORSOLUMBAR SPINE, ANTERIOR TECHNIQUE
ICD-9-CM Lung or pleural biopsy procedure codes:
3326
CLOSED [PERCUTANEOUS] [NEEDLE] BIOPSY OF LUNG
3328
OPEN BIOPSY OF LUNG
3424 PLEURAL BIOPSY
ICD9-CM Cardiac procedure codes:
3510
OPEN HEART VALVULOPLASTY WITHOUT REPLACEMENT, UNSPECIFIED VALVE
OPEN HEART VALVULOPLASTY OF AORTIC VALVE WITHOUT REPLACEMENT
3512 OPEN HEART VALVULOPLASTY OF MITRAL VALVE WITHOUT REPLACEMENT
3513
OPEN HEART VALVULOPLASTY OF PULMONARY VALVE WITHOUT REPLACEMENT
3514
OPEN HEART VALVULOPLASTY OF TRICUSPID VALVE WITHOUT REPLACEMENT
3520 DEDLACEMENT OF UNCDECIFIED HEADT VALVE
REPLACEMENT OF UNSPECIFIED HEART VALVE 3521
REPLACEMENT OF AORTIC VALVE WITH TISSUE GRAFT
3522
OTHER REPLACEMENT OF AORTIC VALVE
3523
REPLACEMENT OF MITRAL VALVE WITH TISSUE GRAFT
3524

0346 latrogenic Pneumothorax Rate (PSI 6)
OTHER REPLACEMENT OF MITRAL VALVE
3525 REPLACEMENT OF PULMONARY VALVE WITH TISSUE GRAFT
3526
OTHER REPLACEMENT OF PULMONARY VALVE
REPLACEMENT OF TRICUSPID VALVE WITH TISSUE GRAFT 3528
OTHER REPLACEMENT OF TRICUSPID VALVE 3531
OPERATIONS ON PAPILLARY MUSCLE
3532 OPERATIONS ON CHORDAE TENDINEAE
3533
ANNULOPLASTY
INFUNDIBULECTOMY 3535
OPERATIONS ON TRABECULAE CARNEAE CORDIS 3539
OPERATIONS ON OTHER STRUCTURES ADJACENT TO VALVES OF HEART 3550
REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART WITH PROSTHESIS 3551
REPAIR OF ATRIAL SEPTAL DEFECT WITH PROSTHESIS, OPEN TECHNIQUE 3553
REPAIR OF VENTRICULAR SEPTAL DEFECT WITH PROSTHESIS, OPEN TECHNIQUE
3554 REPAIR OF ENDOCARDIAL CUSHION DEFECT WITH PROSTHESIS
3560 REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART WITH TISSUE GRAFT 3561
REPAIR OF ATRIAL SEPTAL DEFECT WITH TISSUE GRAFT 3562
REPAIR OF VENTRICULAR SEPTAL DEFECT WITH TISSUE GRAFT
3563 REPAIR OF ENDOCARDIAL CUSHION DEFECT WITH TISSUE GRAFT 3570
3570 OTHER AND UNSPECIFIED REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART 3571
OTHER AND UNSPECIFIED REPAIR OF ATRIAL SEPTAL DEFECT 3572
OTHER AND UNSPECIFIED REPAIR OF VENTRICULAR SEPTAL DEFECT 3573
OTHER AND UNSPECIFIED REPAIR OF ENDOCARDIAL CUSHION DEFECT 3581
TOTAL REPAIR OF TETRALOGY OF FALLOT 3582
TOTAL REPAIR OF TOTAL ANOMALOUS PULMONARY VENOUS CONNECTION
3583 TOTAL REPAIR OF TRUNCUS ARTERIOSUS
3584 TOTAL CORRECTION OF TRANSPOSITION OF GREAT VESSELS, NOT ELSEWHERE CLASSIFIED

0346 latrogenic Pneumothorax Rate (PSI 6)
3591
INTERATRIAL TRANSPOSITION OF VENOUS RETURN 3592
CREATION OF CONDUIT BETWEEN RIGHT VENTRICLE AND PULMONARY ARTERY
3593
CREATION OF CONDUIT BETWEEN LEFT VENTRICLE AND AORTA
3594 CREATION OF CONDUIT BETWEEN ATRIUM AND PULMONARY ARTERY 3595
REVISION OF CORRECTIVE PROCEDURE ON HEART 3597
PERC MTRL VLV REPR W IMP
3598
OTHER OPERATIONS ON SEPTA OF HEART
3599 OTHER OPERATIONS ON VALVES OF HEART
3603 OPEN CHEST CORONARY ARTERY ANGIOPLASTY
3610 AORTOCORONARY BYPASS FOR HEART REVASCULARIZATION, NOT OTHERWISE SPECIFIED
3611
(AORTO)CORONARY BYPASS OF ONE CORONARY ARTERY 3612
(AORTO)CORONARY BYPASS OF TWO CORONARY ARTERIES 3613
(AORTO)CORONARY BYPASS OF THREE CORONARY ARTERIES
3614
(AORTO)CORONARY BYPASS OF FOUR OR MORE CORONARY ARTERIES
3615 SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS
3616 DOUBLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS 3617
ABDOMINAL -CORONARY ARTERY BYPASS
3619
OTHER BYPASS ANASTOMOSIS FOR HEART REVASCULARIZATION
362 HEART REVASCULARIZATION BY ARTERIAL IMPLANT 3631
OPEN CHEST TRANSMYOCARDIAL REVASCULARIZATION 3632
OTHER TRANSMYOCARDIAL REVASCULARIZATION
3639 OTHER HEART REVASCULARIZATION
3691
REPAIR OF ANEURYSM OF CORONARY VESSEL 3699
OTHER OPERATIONS ON VESSELS OF HEART
370 PERICARDIOCENTESIS
3710
INCISION OF HEART, NOT OTHERWISE SPECIFIED
3711

0346 latrogenic Pneumothorax Rate (PSI 6)
CARDIOTOMY
3712
PERICARDIOTOMY
3731 PERICARDIECTOMY
3732
EXCISION OF ANEURYSM OF HEART
3733
EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH
3735
PARTIAL VENTRICULECTOMY
3736 EXCISION OR DESTRUCTION OF LEFT ATRIAL APPENDAGE (LAA) (OCT08)
3737
EXC/DEST HRT LES, THRSPC
3741
IMPLANTATION OF PROSTHETIC CARDIAC SUPPORT DEVICE AROUND THE HEART
3749 OTHER REPAIR OF HEART AND PERICARDIUM
3751
HEART TRANSPLANTATION
3752
IMPLANTATION OF TOTAL REPLACEMENT HEART SYSTEM
REPLACEMENT OF REPAIR OF THORACIC UNIT OF TOTAL REPLACEMENT HEART SYSTEM 3754
REPLACEMENT OR REPAIR OF OTHER IMPLANTABLE COMPONENT OF TOTAL REPLACEMENT HEART SYSTEM
3755
REMOVAL OF INTERNAL BIVENTRICULAR HEART REPLACEMENT SYSTEM (OCT08)
3760
IMPLANTATION OR INSERTION OF BIVENTRICULAR EXTERNAL HEART ASSIST SYSTEM (OCT08)
3761 IMPLANT OF PULSATION BALLOON
3762
INSERTION OF NON-IMPLANTABLE HEART ASSIST SYSTEM
3763
REPAIR OF HEART ASSIST SYSTEM
3764 REMOVAL OF HEART ASSIST SYSTEM
3765
IMPLANT OF EXTERNAL HEART ASSIST SYSTEM
3766
INSERTION OF IMPLANTABLE HEART ASSIST SYSTEM
3767 Implantation of cardionavostingul ation system
IMPLANTATION OF CARDIOMYOSTIMULATION SYSTEM 3791
OPEN CHEST CARDIAC MASSAGE
3804
INCISION OF VESSEL, AORTA
INCISION OF VESSEL, OTHER THORACIC 3844
RESECTION OF ABDOMINAL AORTA WITH GRAFT REPLACEMENT

	0346 latrogenic Pneumothorax Rate (PSI 6)
	3845
	RESECTION OF THORACIC VESSEL WITH GRAFT REPLACEMENT 3864
	EXCISION OF LESION OF AORTA
	3865
	EXCISION OF LESION OTHER THORACIC VESSEL
	3884
	LIGATION , DIVISION OF AORTA
	3885
	LIGATION, DIVISION OF OTHER THORACIC VESSELS 390
	SYSTEMIC TO PULMONARY ARTERY SHUNT
	3921
	CAVAL-PULMONARY ARTERY ANASTOMOSIS
	3922
	AORTA-SUBCLAVIAN-CAROTID BYPASS
	3923
	OTHER INTRATHORACIC VASCULAR SHUNT OR BYPASS
Risk	Statistical risk model
Adjustment	The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) and
	covariates for gender, age (in 5-year age groups), modified CMS DRG, and the AHRQ Comorbidity category. The reference
	population used in the regression is the universe of discharges for states that participate in the HCUP State Inpatient Data
	(SID) for the years 2008, a database consisting of 42 states and approximately 30 million adult discharges. The expected rate is computed as the sum of the predicted value for each case divided by the number of cases for the unit of analysis of interest
	(i.e., hospital). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected
	rate, multiplied by the reference population rate.
	Sex Female
	Age 65 to 85+
	MDRG 416
	MDRG 504
	MDRG 510
	MDRG 601
	MDRG 602
	MDRG 1103
	MDRG 1801
	MDRG 1807
	MDC 1
	MDC 6
	MDC 8
	MDC 25
	NOPRDAY Procedure Days Data Not Available
	COMORB HTN_C COMORB NEURO
	COMORB CHRNLUNG
	COMORB DM
	COMORB DMCX
	COMORB METS
	COMORB OBESE
	COMORB WGHTLOSS
	COMORB DRUG
	URL http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/Risk%20Adjustment%20Tables%20PSI%204.3.pdf Not
	applicable
Stratification	

	0346 latrogenic Pneumothorax Rate (PSI 6)
Type Score	Rate/proportion better quality = lower score
	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 six 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. For indicators that are not risk-adjusted, this is the reference population rate. 5) Calculate risk-adjusted rate. Use the indirect standardization to account for case-mix. For indicators that are not risk-adjusted rates. The shrinkage estimate reflects a reliability adjustment unique to each indicator URL Not applicable http://qualityindicators.ahrq.gov/Downloads/Resources/Publications/2011/QI%20Empirical%20Methods%2005-03-11.pdf
Copyright	Not applicable
	0348 latrogenic Pneumothorax Rate (PDI 5)
Steward	Agency for Healthcare Research and Quality
Description	Percent of discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code of iatrogenic pneumothorax in any secondary diagnosis field
Туре	Outcome
	Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. URL http://www.hcup-us.ahrq.gov/sidoverview.jsp Not applicable URL http://qualityindicators.ahrq.gov/Downloads/Software/WinQI/V43/AHRQ%20QI%20Software%20Instructions,%20WinQI.pdf Not applicable
Level	Facility
Setting	Hospital/Acute Care Facility
	Discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code of iatrogenic pneumothorax in any secondary diagnosis field
	Time Window: User may specify the time window; generally one calendar year ICD-9-CM latrogenic pneumothorax diagnosis code: 5121 IATROGENIC PNEUMOTHORAX
Denominator Statement	Discharges, age under 18 years, defined by specific surgical and medical DRGs
Details	Time Window: All surgical and medical discharges under age 18 defined by specific DRGs or MS-DRGs See Pediatric Quality Indicators Appendices: - Appendix B – Surgical Discharge DRGs - Appendix C – Surgical Discharge MS-DRGs - Appendix D – Medical Discharge DRGs - Appendix E – Medical Discharge MS-DRGs Link to PDI appendices: http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PDI%20Appendices.pdf
Exclusions	Exclude cases: - neonates with birth weight less than 2500 grams (Birth Weight Category 1-8) - with principal diagnosis of iatrogenic pneumothorax or secondary diagnosis present on admission - with any diagnosis code of chest trauma or pleural effusion - with an ICD-9-CM procedure code of thoracic surgery, lung or pleural biopsy, diaphragmatic surgery repair, OR cardiac surgery

	0348 latrogenic Pneumothorax Rate (PDI 5)
	- normal newborn
	- MDC 14 (pregnancy, childbirth, and puerperium)
	- with missing discharge gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or
	principal diagnosis (DX1=missing)
Exclusion	See Pediatric Quality Indicators Appendices:
Details	- Appendix I – Definitions of Neonate, Newborn, Normal Newborn, and Outborn
	- Appendix L- Low Birth Weight Categories
	Link to PDI appendices: http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PDI%20Appendices.pdf
	ICD-9-CM Chest trauma diagnosis codes:
	80700
	FRACTURE RIB NOS-CLOSED
	80701
	FRACTURE ONE RIB-CLOSED
	FRACTURE TWO RIBS-CLOSED
	80703 FRACTURE THREE RIBS-CLOS
	80704
	FRACTURE FOUR RIBS-CLOSE
	80705
	FRACTURE FIVE RIBS-CLOSE
	80706
	FRACTURE SIX RIBS-CLOSED
	FRACTURE SEVEN RIBS-CLOS 80708
	FX EIGHT/MORE RIB-CLOSED
	80709
	FX MULT RIBS NOS-CLOSED
	80710
	FRACTURE RIB NOS-OPEN
	80711
	FRACTURE ONE RIB-OPEN
	80712 FRACTURE TWO RIBS-OPEN
	80713
	FRACTURE THREE RIBS-OPEN
	80714
	FRACTURE FOUR RIBS-OPEN
	80715
	FRACTURE FIVE RIBS-OPEN
	80716
	FRACTURE SIX RIBS-OPEN 80717
	FRACTURE SEVEN RIBS-OPEN
	80718
	FX EIGHT/MORE RIBS-OPEN
	80719
	FX MULT RIBS NOS-OPEN
	8072
	FRACTURE OF STERNUM-CLOS
	8073

	0348 latrogenic Pneumothorax Rate (PDI 5)
	FRACTURE OF STERNUM-OPEN
	8074
	FLAIL CHEST
	8075
	FX LARYNX/TRACHEA-CLOSED
	8076
	FX LARYNX/TRACHEA-OPEN
	8090
	FRACTURE TRUNK BONE-CLOS
	8091
	FRACTURE TRUNK BONE-OPEN
	8600
	TRAUM PNEUMOTHORAX-CLOSE
	8601
	TRAUM PNEUMOTHORAX-OPEN
	8602
	TRAUM HEMOTHORAX-CLOSED
	8603
	TRAUM HEMOTHORAX-OPEN
	TRAUM PNEUMOHEMOTHOR-CL
	TRAUM PNEUMOHEMOTHOR-OPN 86100
	HEART INJURY NOS-CLOSED
	86101
	HEART CONTUSION-CLOSED
	86102
	HEART LACERATION-CLOSED
	86103
	HEART CHAMBER LACERAT-CL
	86110
	HEART INJURY NOS-OPEN
	86111
	HEART CONTUSION-OPEN
	86112
	HEART LACERATION-OPEN
	86113
	HEART CHAMBER LACER-OPN
	LUNG INJURY NOS-CLOSED
	86121
	LUNG CONTUSION-CLOSED 86122
	LUNG LACERATION-CLOSED
	86130
	LUNG INJURY NOS-OPEN
	86131
	LUNG CONTUSION-OPEN
	86132
	LUNG LACERATION-OPEN
	8620
	DIAPHRAGM INJURY-CLOSED
L	

	0348 latrogenic Pneumothorax Rate (PDI 5)
	8621
	DIAPHRAGM INJURY-OPEN
	86221
	BRONCHUS INJURY-CLOSED
	86222
	ESOPHAGUS INJURY-CLOSED 86229
	INTRATHORACIC INJ NEC-CL
	86231
	BRONCHUS INJURY-OPEN
	86232
	ESOPHAGUS INJURY-OPEN
	86239
	INTRATHORAC INJ NEC-OPEN
	8628
	INTRATHORACIC INJ NOS-CL
	8629
1	INTRATHORAC INJ NOS-OPEN
	8750
	OPEN WOUND OF CHEST
	8751
	OPEN WOUND CHEST-COMPL
	8760 OPEN WOUND OF BACK
	8761
	OPEN WOUND BACK-COMPL
	9010
	INJURY THORACIC AORTA
	9011
	INJ INNOMIN/SUBCLAV ART
	9012
	INJ SUPERIOR VENA CAVA
	9013
	INJ INNOMIN/SUBCLAV VEIN
	90140
	INJ PULMONARY VESSEL NOS
	INJURY PULMONARY ARTERY
	90142 INJURY PULMONARY VEIN
	90181
	INJ INTERCOSTAL ART/VEIN
	90182
	INJ INT MAMMARY ART/VEIN
	90183
	INJ MULT THORACIC VESSEL
	90189
	INJ THORACIC VESSEL NEC
	9019
	INJ THORACIC VESSEL NOS
	9110
	ABRASION TRUNK
	9111

0348 latrogenic Pneumothorax Rate (PDI 5)
ABRASION TRUNK-INFECTED
9118
SUPERFIC INJU TRUNK NEC
9119
SUPERFIC INJU TRUNK NEC-INF
9220
CONTUSION OF BREAST
9221
CONTUSION OF CHEST WALL 9223
BACK CONTUSION
92231
BACK CONTUSION
92233
INTERSCPLR REG CONTUSION
9228
MULIPLE CONTUSION TRUNK
9229
CONTUSION OF TRUNK
92611
CRUSHING INJURY BACK
CRUSHING INJ TRUNK NEC 9268
MULT CRUSHING INJ TRUNK
9269
CRUSHING INJ TRUNK NOS
9290
CRUSH INJ MULT SITE NEC
9299
CRUSHING INJURY NOS
9541
INJ SYMPA NERVE NEC
9548 INJURY TRUNK NERVE NEC
1NJURY TRUNK NERVE NEC 9549
INJURY TRUNK NERVE NOS
95911
INJURY OF CHEST WALL NEC
95919
TRUNK INJURY-SITES NEC
9599
INJURY-SITE NOS
ICD-9-CM Pleural effusion diagnosis codes:
TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS
01010 TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS, UNSPECIFIED
01011
TPIPPT, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE
01012
TPIPPT, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN
01013

0348 latrogenic Pneumothorax Rate (PDI 5)
 TPIPPT, TUBERCLE BACILI FOUND BY MICROSCOPY
01014 TPIPPT, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE 01015
TPIPPT, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY
01016 TPIPPT, TUBERCLE BACILI NOT FOUND BY BACTERILOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS
0117 TUBRCULOUS PNEUMOTHORAX 01170
TUBRCULOUS PNEUMOTHORAX, UNSPECIFIED
01171 TPNEU, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE
01172 TPNEU, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN
01173 TPNEU, TUBERCLE BACILI FOUND BY MICROSCOPY
01174 TPNEU, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE 01175
TPNEU, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY 01176
TPENU, TUBERCLE BACILI NOT FOUND BY BACTERILOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS 0120
TUBERCULOUS PLEURISY
01200 TUBERCULOUS PLEURISY, UNSPECIFIED
01201 TP, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE 01202
TP, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN 01203
TP, TUBERCLE BACILI FOUND BY MICROSCOPY 01204
TP, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE 01205
TP, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY 01206
TP, TUBERCLE BACILI NOT FOUND BY BACTERILOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS 1972
SECOND MALIG NEO PLEURA 5111
WITH EFUSION, WITH MENTION OF A BACTERIAL CAUSE OTHER THAN TUBERCULOSIS 5118
OTHER SPECIFIED FORM OF EFFUSION, EXCEPT TUBERCULOUS 51181
MALIGNANT PLEURAL EFFUSION (OCT08) 51189
OTHER SPECIFIED FORMS OF EFFUSION, EXCEPT TUBERCULOSIS (OCT08) 5119
UNSPECIFIED PLEURAL EFFUSION

0348 latrogenic Pneumothorax Rate (PDI 5)
ICD-9-CM Thoracic surgery procedure codes:
SYMPATHECTOMY CERVICAL 0523
SYMPATHECTOMY LUMBAR
0529
OTHER SYMPATHECTOMY AND GANGLIONECTOMY
0780
THYMECTOMY, NOT OTHERWISE SPECIFIED
0781 OTHER PARTIAL EXCISION OF THYMUS
0782
OTHER TOTAL EXCISION OF THYMUS
0783
THORACOSCOPIC PARTIAL EXCISION OF THYMUS
0784
THORACOSCOPIC TOTAL EXCISION OF THYMUS
3121 MEDIASTINAL TRACHEOSTOMY
3145
OPEN BIOPSY OF LARYNX OR TRACHEA
3173
CLOSURE OF OTHER FISTULA OF TRACHEA
3179
OTHER REPAIR AND PLASTIC OPERATIONS ON TRACHEA 3199
OTHER OPERATIONS ON TRACHEA
3209
OTHER LOCAL EXCISION OR DESTRUCTION OF LESION OR TISSUE OF BRONCHUS
321
OTHER EXCISION OF BRONCHUS
THORAC EXC LUNG LESION Local excision or destruction of lesion or tissue of lung
3221
PLICATION OF EMPHYSEMATIOUS BLEB
3222
LUNG VOLUME REDUCTION SURGERY
OPEN ABLTN LUNG LES/TISS (OCT06) 3224
PERC ABLTN LUNG LES/TISS (OCT06)
3225
THOR ABLTN LUNG LES/TISS (OCT06)
3226
ABLTN LUNG TISS NEC/NOS (OCT06)
3227 BRNC THRMPLSTY, ABLT MSCL
3228
ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OR TISSUE OF LUNG
3229
OTHER LOCAL EXCISION OR DESTRUCTION OF LESION OR TISSUE OF LUNG
323

0348 latrogenic Pneumothorax Rate (PDI 5)
SEGMENTAL RESECTION OF LUNG
3230
THORAC SEG LUNG RESECT
3239
OTH SEG LUNG RESECT NOS
LOBECTOMY OF LUNG 3241
THORAC LOBECTOMY LUNG
3249
OTHER LOBECTOMY OF LUNG
325
COMPLETE PNEUMONECTOMY
3250
THORACOSPC PNEUMONECTOMY
3259
OTHER PNEUMONECTOMY NOS
326 DADICAL DISSECTION OF THODACIC STRUCTURES
RADICAL DISSECTION OF THORACIC STRUCTURES 329
OTHER EXCISION OF LUNG
330
INCISION OF BRONCHUS
331
INCISION OF LUNG
3320
THORACOSCOPC LUNG BIOPSY
3325
OPEN BIOPSY OF BRONCHUS
3327 CLOSED ENDOSCOPIC BIOPSY OF LUNG
3328
OPEN BIOPSY OF LUNG
3331
DESTRUCTION OF PHRENIC NERVE FOR COLLAPSE OF LUNG (NO LONGER PERFORMED)
3332
ARTIFICIAL PNEUMOTHORAX FOR COLLAPSE OF LUNG
3334
THORACOPLASTY
3339 OTHER SURGICAL COLLARSE OF LUNC
OTHER SURGICAL COLLAPSE OF LUNG Repair and plastic operation on lung and bronchus
3341
SUTURE OF LACERATION OF BRONCHUS
3342
CLOSURE OF BRONCHIAL FISTULA
3343
CLOSURE OF LACERATION OF LUNG
OTHER REPAIR AND PLASTIC OPERATIONS ON BRONCHUS
3349 OTHER REPAIR AND REASTIC OPERATIONS ON LUNC
OTHER REPAIR AND PLASTIC OPERATIONS ON LUNG Lung transplant

0348 latrogenic Pneumothorax Rate (PDI 5)
335
LUNG TRANSPLANTATION 3350
LUNG TRANSPLANTATION, NOS
3351
UNILATERAL LUNG TRANSPLANTATION
3352 BILATERAL LUNG TRANSPLANTATION
336
COMBINED HEART-LUNG TRANSPLANTATION
3392
LIGATION OF BRONCHUS 3393
PUNCTURE OF LUNG
3398
OTHER OPERATIONS ON BRONCHUS
3399
OTHER OPERATIONS ON LUNG 3329
OTHER DIAGNOSTIC PROCEDURE ON LUNG AND BRONCHUS
3333
PNEUMOPERITONEUM FOR COLLAPSE OF LUNG
3401 INCISION OF CHEST WALL
3402
EXPLORATORY THORACOTOMY
3403
REOPENING OF RECENT THORACOTOMY SITE 3405
CREATION OF PLEUROPERITONEAL SHUNT
3409
OTHER INCISION OF PLEURA
341 Incision of Mediastinum
INCISION OF MEDIASTINUM Diagnostic procedures on chest wall, pleura, mediastinum, and diaphragm
3420
THORACOSCOPIC PLEURAL BX
TRANSPLEURAL THORACOSOCOPY 3422
MEDIASTINOSCOPY
3423
BIOPSY OF CHEST WALL
3425 CLOSED [PERCUTANEOUS][NEEDLE] BIOPSY OF MEDIASTINUM
3426
OPEN BIOPSY OF MEDIASTINUM
3427
BIOPSY OF DIAPHRAGM
3428 OTHER DIAGNOSTIC PROCEDURES ON CHEST WALL, PLEURA, AND DIAPHRAGM
3429
OTHER DIAGNOSTIC PROCEDURES ON MEDIASTINUM

0348 latrogenic Pneumothorax Rate (PDI 5)
343
EXCISION OR DESTRUCTION OF LESION OR TISSUE OF MEDIASTINUM 344
EXCISION OR DESTRUCTION OF LESION OF CHEST WALL
3451
DECORTICATION OF LUNG
3452
THORACOSCOPC DECORT LUNG 3459
OTHER EXCISION OF PLEURA
Repair of chest wall
3471
SUTURE OF LACERATION OF CHEST WALL
3472
CLOSURE OF THORACOSTOMY
3473 CLOSURE OF OTHER FISTULA OF THORAX
3474
REPAIR OF PECTUS DEFORMITY
3479
OTHER REPAIR OF CHEST WALL
Operations on diaphragm
3481 Excision of Legion on Tiggue of Diaduracia
EXCISION OF LESION OR TISSUE OF DIAPHRAGM 3482
SUTURE OF LACERATION OF DIAPHRAGM
3483
CLOSURE OF FISTULA OF DIAPHRAGM
3484
OTHER REPAIR OF DIAPHRAGM
3485 IMPLANTATION OF DIAPHRAGMATIC PACEMAKER
3489
OTHER OPERATIONS ON DIAPHRAGM
3493
REPAIR OF PLEURA
3499
OTHER OPERATIONS ON THORAX, OTHER
Operations on thoracic duct 4061
CANNULATION OF THORACIC DUCT
4062
FISTULIZATION OF THORACIC DUCT
4063
CLOSURE OF FISTULA OF THORACIC DUCT
4064 LIGATION OF THORACIC DUCT
4069
OTHER OPERATIONS ON THORACIC DUCT
Esophagotomy
4201
INCISION OF ESOPHAGEAL WEB
4209

0348 latrogenic Pneumothorax Rate (PDI 5)
OTHER INCISION OF ESOPHAGUS
4210
ESOPHAGOSTOMY, NOS
4211
CERVICAL ESOPHAGOSTOMY
EXTERIORIZATION OF ESOPHAGEAL POUCH 4219
OTHER EXTERNAL FISTULIZATION OF ESOPHAGUS
4221
OPERATIVE ESOPHAGOSCOPY BY INCISION
4225
OPEN BIOPSY OF ESOPHAGUS
LOCAL EXCISION OF ESOPHAGEAL DIVERTICULUM 4232
LOCAL EXCISION OF OTHER LESION OR TISSUE OF ESOPHAGUS
Excision of esophagus
4239
OTHER DESTRUCTION OF LESION OR TISSUE OF ESOPHAGUS
4240
ESOPHAGECTOMY, NOS
4241 PARTIAL ESOPHAGECTOMY
4242
TOTAL ESOPHAGECTOMY
Intrathoracic anastomosis of exophagus
4251
INTRATHORACIC ESOPHAGOESOPHAGOSTOMY
4252 INTRATHORACIC ESOPHAGOGASTROSTOMY
4253
INTRATHORACIC ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF SMALL BOWEL
4254
OTHER INTRATHORACIC ESOPHAGOENTEROSTOMY
INTRATHORACIC ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF COLON 4256
0THER INTRATHORACIC ESOPHAGOCOLOSTOMY
4258
INTRATHORACIC ESOPHAGEAL ANASTOMOSIS W/ OTHER INTERPOSITION
4259
OTHER INTRATHORACIC ANASTOMOSIS OF ESOPHAGUS
Antesternal anastomosis
4261 ANTESTERNAL ESOPHAGOESOPHAGOSTOMY
4262
ANTESTERNAL ESOPHAGOGASTROSTOMY
4263
ANTESTERNAL ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF SMALL BOWEL
4264
OTHER ANTESTERNAL ESOPHAGOENTEROSTOMY 4265
4200

0348 latrogenic Pneumothorax Rate (PDI 5)
ANTESTERNAL ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF COLON
4266
OTHER ANTESTERNAL ESOPHAGOCOLOSTOMY
4268 OTHER ANTESTERNAL ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION
4269
OTHER ANTESTERNAL ANASTOMOSIS OF ESOPHAGUS Other repair of esophagus
427
ESOPHAGOMYOTOMY
4281 INSERTION OF PERMANENT TUBE INTO ESOPHAGUS
4282
SUTURE OF LACERATION OF ESOPHAGUS
4283 CLOSURE OF ESOPHAGOSTOMY
4284
REPAIR OF ESOPHAGEAL FISTULA, NEC
4285 REPAIR OF ESOPHAGEAL STRICTURE
4286
PRODUCTION OF SUBCUTANEOUS TUNNEL W/O ESOPHAGEAL ANASTOMOSIS
4287 OTHER GRAFT OF ESOPHAGUS
4289
OTHER REPAIR OF ESOPHAGUS
435 PROXIMAL GASTRECTOMY
4399
TOTAL GASTRECTOMY NEC
4465 ESOPHAGOGASTROPLASTY
4466
OTHER PROCEDURES FOR CREATION OF ESOPHAGOGASTRIC SPHINCTERIC COMPETENCE
4467 LAP CREAT ESOPH SPHINCT
7781
OTH CHEST CAGE OSTECTOMY
7791 TOT CHEST CAGE OSTECTOMY
8104
DORSAL AND DORSO-LUMBAR FUSION, ANTERIOR TECHNIQUE
8134 REFUSION OF DORSAL AND DORSOLUMBAR SPINE, ANTERIOR TECHNIQUE
ICD-9-CM Lung or pleural biopsy procedure codes:
3326
CLOSED [PERCUTANEOUS] [NEEDLE] BIOPSY OF LUNG 3328
OPEN BIOPSY OF LUNG
3424
PLEURAL BIOPSY
ICD9-CM Diaphragmatic surgery repair codes: 537

0348 latrogenic Pneumothorax Rate (PDI 5)
ABD REPAIR-DIAPHR HERNIA
LAPAROSCOPIC REPAIR OF DIAPHRAGMATIC HERNIA, ABDOMINAL APPROACH (OCT08) 5372
OTHER AND OPEN REPAIR OF DIAPHRAGMATIC HERNIA, ABDOMINAL APPROACH (OCT08)
5375
REPAIR OF DIAPHRAGMATIC HERNIA, ABDOMINAL APPROACH, NOS (OCT08)
5380 THOR REP-DIAPH HERN NOS
5381
DIAPHRAGMATIC PLICATION
5382
PARASTERN HERNIA REPAIR 5583
LAPAROSCOPIC REPAIR OF DIAPHRAGMATIC HERNIA, WITH THORACIC APPROACH (OCT08)
5584
OTHER AND OPEN REPAIR OF DIAPHRAGMATIC HERNIA, WITH THORACIC APPROACH (OCT08)
ICD9-CM Cardiac procedure codes: 3510
OPEN HEART VALVULOPLASTY WITHOUT REPLACEMENT, UNSPECIFIED VALVE
3511
OPEN HEART VALVULOPLASTY OF AORTIC VALVE WITHOUT REPLACEMENT
3512 IOPEN HEART VALVULOPLASTY OF MITRAL VALVE WITHOUT REPLACEMENT
3513
OPEN HEART VALVULOPLASTY OF PULMONARY VALVE WITHOUT REPLACEMENT
3514
OPEN HEART VALVULOPLASTY OF TRICUSPID VALVE WITHOUT REPLACEMENT
3520 REPLACEMENT OF UNSPECIFIED HEART VALVE
3521
REPLACEMENT OF AORTIC VALVE WITH TISSUE GRAFT
3522 OTHER REPLACEMENT OF AORTIC VALVE
3523
REPLACEMENT OF MITRAL VALVE WITH TISSUE GRAFT
3524
OTHER REPLACEMENT OF MITRAL VALVE 3525
REPLACEMENT OF PULMONARY VALVE WITH TISSUE GRAFT
3526
OTHER REPLACEMENT OF PULMONARY VALVE
3527 REPLACEMENT OF TRICUSPID VALVE WITH TISSUE GRAFT
3528
OTHER REPLACEMENT OF TRICUSPID VALVE
3531
OPERATIONS ON PAPILLARY MUSCLE
3532 OPERATIONS ON CHORDAE TENDINEAE
3533
ANNULOPLASTY
3534

0348 latrogenic Pneumothorax Rate (PDI 5)
INFUNDIBULECTOMY
3535 OPERATIONS ON TRABECULAE CARNEAE CORDIS
3539
OPERATIONS ON OTHER STRUCTURES ADJACENT TO VALVES OF HEART
3550
REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART WITH PROSTHESIS 3551
REPAIR OF ATRIAL SEPTAL DEFECT WITH PROSTHESIS, OPEN TECHNIQUE
3553
REPAIR OF VENTRICULAR SEPTAL DEFECT WITH PROSTHESIS, OPEN TECHNIQUE
3554 REPAIR OF ENDOCARDIAL CUSHION DEFECT WITH PROSTHESIS
3560
REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART WITH TISSUE GRAFT
3561
REPAIR OF ATRIAL SEPTAL DEFECT WITH TISSUE GRAFT 3562
REPAIR OF VENTRICULAR SEPTAL DEFECT WITH TISSUE GRAFT
3563
REPAIR OF ENDOCARDIAL CUSHION DEFECT WITH TISSUE GRAFT
3570 OTHER AND UNSPECIFIED REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART
3571
OTHER AND UNSPECIFIED REPAIR OF ATRIAL SEPTAL DEFECT
OTHER AND UNSPECIFIED REPAIR OF VENTRICULAR SEPTAL DEFECT 3573
OTHER AND UNSPECIFIED REPAIR OF ENDOCARDIAL CUSHION DEFECT
3581
TOTAL REPAIR OF TETRALOGY OF FALLOT
3582 TOTAL REPAIR OF TOTAL ANOMALOUS PULMONARY VENOUS CONNECTION
3583
TOTAL REPAIR OF TRUNCUS ARTERIOSUS
3584
TOTAL CORRECTION OF TRANSPOSITION OF GREAT VESSELS, NOT ELSEWHERE CLASSIFIED 3591
INTERATRIAL TRANSPOSITION OF VENOUS RETURN
3592
CREATION OF CONDUIT BETWEEN RIGHT VENTRICLE AND PULMONARY ARTERY
3593
CREATION OF CONDUIT BETWEEN LEFT VENTRICLE AND AORTA 3594
CREATION OF CONDUIT BETWEEN ATRIUM AND PULMONARY ARTERY
3595
REVISION OF CORRECTIVE PROCEDURE ON HEART
3597 PERC MTRL VLV REPR W IMP
3598
OTHER OPERATIONS ON SEPTA OF HEART
3599 OTHER OPERATIONS ON VALVES OF HEART
OTHER OPERATIONS ON VALVES OF HEART

0348 latrogenic Pneumothorax Rate (PDI 5)
OPEN CHEST CORONARY ARTERY ANGIOPLASTY 3610
AORTOCORONARY BYPASS FOR HEART REVASCULARIZATION, NOT OTHERWISE SPECIFIED
3611
(AORTO)CORONARY BYPASS OF ONE CORONARY ARTERY
3612 (AORTO)CORONARY BYPASS OF TWO CORONARY ARTERIES
3613
(AORTO)CORONARY BYPASS OF THREE CORONARY ARTERIES
3614 (AORTO)CORONARY BYPASS OF FOUR OR MORE CORONARY ARTERIES
3615
SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS
3616
DOUBLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS 3617
ABDOMINAL -CORONARY ARTERY BYPASS
3619
OTHER BYPASS ANASTOMOSIS FOR HEART REVASCULARIZATION 362
HEART REVASCULARIZATION BY ARTERIAL IMPLANT
3631
OPEN CHEST TRANSMYOCARDIAL REVASCULARIZATION
3632 OTHER TRANSMYOCARDIAL REVASCULARIZATION
3639
OTHER HEART REVASCULARIZATION
3691
REPAIR OF ANEURYSM OF CORONARY VESSEL 3699
OTHER OPERATIONS ON VESSELS OF HEART
370
PERICARDIOCENTESIS 3710
INCISION OF HEART, NOT OTHERWISE SPECIFIED
3711
CARDIOTOMY
3712 PERICARDIOTOMY
3731
PERICARDIECTOMY
3732
EXCISION OF ANEURYSM OF HEART 3733
EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH
3735
PARTIAL VENTRICULECTOMY 3736
EXCISION OR DESTRUCTION OF LEFT ATRIAL APPENDAGE (LAA) (OCT08)
3737
EXC/DEST HRT LES, THRSPC
3741

0348 latrogenic Pneumothorax Rate (PDI 5)
IMPLANTATION OF PROSTHETIC CARDIAC SUPPORT DEVICE AROUND THE HEART
OTHER REPAIR OF HEART AND PERICARDIUM
3751 HEART TRANSPLANTATION
3752
IMPLANTATION OF TOTAL REPLACEMENT HEART SYSTEM
3753 REPLACEMENT OF REPAIR OF THORACIC UNIT OF TOTAL REPLACEMENT HEART SYSTEM
3754 REPLACEMENT OR REPAIR OF OTHER IMPLANTABLE COMPONENT OF TOTAL REPLACEMENT HEART SYSTEM
3755
REMOVAL OF INTERNAL BIVENTRICULAR HEART REPLACEMENT SYSTEM (OCT08)
3760 IMPLANTATION OR INSERTION OF BIVENTRICULAR EXTERNAL HEART ASSIST SYSTEM (OCT08) 3761
IMPLANT OF PULSATION BALLOON
3762 INSERTION OF NON-IMPLANTABLE HEART ASSIST SYSTEM
3763 REPAIR OF HEART ASSIST SYSTEM
3764 REMOVAL OF HEART ASSIST SYSTEM
3765
IMPLANT OF EXTERNAL HEART ASSIST SYSTEM 3766
INSERTION OF IMPLANTABLE HEART ASSIST SYSTEM 3767
IMPLANTATION OF CARDIOMYOSTIMULATION SYSTEM 3791
OPEN CHEST CARDIAC MASSAGE
3804 INCISION OF VESSEL, AORTA
3805 INCISION OF VESSEL, OTHER THORACIC
3844 RESECTION OF ABDOMINAL AORTA WITH GRAFT REPLACEMENT
3845 RESECTION OF THORACIC VESSEL WITH GRAFT REPLACEMENT
3864
EXCISION OF LESION OF AORTA 3865
EXCISION OF LESION OTHER THORACIC VESSEL
3884 LIGATION, DIVISION OF AORTA
3885 LIGATION, DIVISION OF OTHER THORACIC VESSELS
390 SYSTEMIC TO PULMONARY ARTERY SHUNT
3921 CAVAL-PULMONARY ARTERY ANASTOMOSIS
3922 AORTA-SUBCLAVIAN-CAROTID BYPASS

	0348 latrogenic Pneumothorax Rate (PDI 5)
	3923 OTHER INTRATHORACIC VASCULAR SHUNT OR BYPASS
Risk Adjustment	Statistical risk model The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) and covariates for gender, birthweight (500g groups), age in days (29-60, 61-90, 91+), age in years (in 5-year age groups), modified CMS DRG and AHRQ CCS comorbities. The reference population used in the regression is the universe of discharges for states that participate in the HCUP State Inpatient Data (SID) for the years 2008, 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). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference population rate. Age in Years 13 to 18 Age in Years 1 to 13 URL http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/Risk%20Adjustment%20Tables%20PDI%204.3.pdf Not applicable
Stratification	Not applicable
Type Score	Rate/proportion better quality = lower score
Algorithm	Each indicator is expressed as a rate, is defined as outcome of interest / population at risk or numerator / denominator. The AHRQ Quality Indicators (AHRQ QI) software performs six 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. For indicators that are not risk-adjusted, this is the reference population rate. 5) Calculate risk-adjusted rate. Use the indirect standardization to account for case-mix. For indicators that are not risk-adjusted rates. The shrinkage estimate reflects a reliability adjustment unique to each indicator URL Not applicable http://qualityindicators.ahrq.gov/Downloads/Resources/Publications/2011/QI%20Empirical%20Methods%2005-03-11.pdf
Copyright	Not applicable

	0349 Transfusion Reaction (PSI 16)
Steward	Agency for Healthcare Research and Quality
Description	The count of medical and surgical discharges for patients age greater than or equal to 18 or in MDC 14 with ICD-9-CM code for transfusion reaction in any secondary diagnosis field.
Туре	Outcome
Data Source	Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. URL http://www.hcup-us.ahrq.gov/sidoverview.jsp Not applicable URL http://qualityindicators.ahrq.gov/Downloads/Software/WinQI/V43/AHRQ%20QI%20Software%20Instructions,%20WinQI.pdf Not applicable
Level	Facility
Setting	Hospital/Acute Care Facility
Numerator Statement	Discharges 18 years and older or in MDC 14 with ICD-9-CM codes for transfusion reaction in any secondary diagnosis field of all medical and surgical discharges defined by specific DRGs or MS-DRGs See Patient Safety Indicators Appendices: - Appendix B – Medical Discharge DRGs - Appendix C – Medical Discharge MS-DRGs - Appendix D – Surgical Discharge DRGs - Appendix E – Surgical Discharge MS-DRGs Link to PSI appendices: http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PSI%20Appendices.pdf

	0349 Transfusion Reaction (PSI 16)
	Exclude cases: -with principal diagnosis of transfusion reaction or secondary diagnosis present on admission -with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)
Numerator Details	Time Window: User may specify the time window; generally one calendar year
	ICD-9-CM Transfusion reaction diagnosis codes: 9996
	ABO INCOMPATIBILITY REACTION
	99960 ABO INCOMPATIBILITY REACTION NOS 99961
	ABO INCOMP/HTR NEC 99962
	ABO INCOMPAT/ACUTE HTR 99963
	ABO INCOMPAT/DELAY HTR 99969
	ABO INCOMPAT REACTN NEC 9997
	RH INCOMPATIBILITY REACTION 99970
	RH INCOMPAT REACTION NOS 99971
	RH INCOMP/HTR NEC 99972
	RH INCOMPAT/ACUTE HTR 99973
	RH INCOMPAT/DELAY HTR 99974
	RH INCOMPAT REACTION NEC E8760
	MISMATCHED BLOOD IN TRANSFUSION
Denominator Statement	Not applicable
Denominator Details	Time Window: Not applicable
	Not applicable
Exclusions	Not applicable
Exclusion Details	Not applicable
Risk Adjustment	No risk adjustment or risk stratification Not applicable
	Not applicable
Type Score	Count better quality = lower score
Algorithm	Identify cases meeting the target outcome. Exclude cases meeting the exclusion criteria. Count the number of case at the hospital level. URL Not applicable http://qualityindicators.ahrq.gov/Downloads/Resources/Publications/2011/QI%20Empirical%20Methods%2005-03-11.pdf
Copyright	Not applicable
Copyright	Not applicable

	0350 Transfusion Reaction (PDI 13)
Steward	Agency for Healthcare Research and Quality
Description	The count of medical and surgical discharges for patients age less than 18 and not in MDC 14 with ICD-9-CM code for transfusion reaction in any secondary diagnosis field.
Туре	Outcome
Data Source	Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. URL http://www.hcup-us.ahrq.gov/sidoverview.jsp Not applicable URL http://qualityindicators.ahrq.gov/Downloads/Software/WinQI/V43/AHRQ%20QI%20Software%20Instructions,%20WinQI.pdf Not applicable
Level	Facility
Setting	Hospital/Acute Care Facility
Numerator Statement	Discharges under age 18 with ICD-9-CM codes for transfusion reaction in any secondary diagnosis field of all medical and surgical discharges defined by specific DRGs or MS-DRGs with the exclusion of neonates, cases in MDC 14 and instances with the outcome of interest was present on admission. See Pediatric Quality Indicators Appendices: - Appendix B – Surgical DRGs - Appendix C – Surgical MS-DRGs - Appendix D – Medical DRGs - Appendix E – Medical MS-DRGs - Appendix I – Definitions of, Neonate, Newborn, Normal Newborn, and Outborn Link to PDI appendices: http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PDI%20Appendices.pdf Cases excluded with missing gender (SEX=missig, age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or
	principal diagnosis (DX1=missing)
Numerator Details	Time Window: User may specify the time window; generally one calendar year ICD-9-CM Transfusion reaction diagnosis codes: 9996 ABO INCOMPATIBILITY REACTION 99960 ABO INCOMPATIBILITY REACTION 99961 ABO INCOMP/HTR NEC 99962 ABO INCOMPAT/ACUTE HTR 99963 ABO INCOMPAT/DELAY HTR 99969 ABO INCOMPAT REACTN NEC 9997 RH INCOMPATIBILITY REACTION 99970 RH INCOMPATIBILITY REACTION 99971 RH INCOMPATIBILITY REACTION 99972 RH INCOMPAT/ACUTE HTR 99973 RH INCOMPAT/ACUTE HTR 99973 RH INCOMPAT/ACUTE HTR 99973 RH INCOMPAT/ACUTE HTR 99973 RH INCOMPAT/ACUTE HTR 99974 RH INCOMPAT REACTION NEC E8760

	0350 Transfusion Reaction (PDI 13)
	MISMATCHED BLOOD IN TRANSFUSION
Denominator Statement	Not applicable
Denominator Details	Time Window: Not applicable
	Not applicable
Exclusions	Not applicable
Exclusion Details	Not applicable
Risk	No risk adjustment or risk stratification
Adjustment	Not applicable
Stratification	Not applicable
Type Score	Count better quality = lower score
Algorithm	Identify cases meeting the target outcome. Exclude cases meeting the exclusion criteria. Count the number of case at the hospital level. URL Not applicable http://qualityindicators.ahrq.gov/Downloads/Resources/Publications/2011/QI%20Empirical%20Methods%2005-03-11.pdf
Copyright	Not applicable

	0362 Foreign Body left after procedure (PDI 3)
Steward	Agency for Healthcare Research and Quality
Description	Count of discharges with foreign body left in during procedure in medical and surgical discharges among patients less than 18 years and not MDC 14 (pregnancy, childbirth, and puerperium)
Туре	Outcome
Data Source	Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. URL http://www.hcup-us.ahrq.gov/sidoverview.jsp Not applicable URL http://qualityindicators.ahrq.gov/Downloads/Software/WinQI/V43/AHRQ%20QI%20Software%20Instructions,%20WinQI.pdf Not applicable
Level	Facility
Setting	Hospital/Acute Care Facility
Numerator Statement	Discharges under age 18 with ICD-9-CM codes for foreign body left in during procedure in any secondary diagnosis field of medical and surgical discharges defined by specific DRGs or MS-DRGs where several exclusions are applied to the numerator. (Details of the numerator, medical and surgical discharges DRGs and MS-DRGs, and exclusions appear in 2a1.3).
Numerator Details	Time Window: User may specify the time window; generally one calendar year ICD-9-CM Foreign body left in during procedure diagnosis codes: 9984 FOREIGN BODY ACCIDENTALLY LEFT DURING A PROCEDURE 9987 ACUTE REACTIONS TO FOREIGN SUBSTANCE ACCIDENTALLY LEFT DURING A PROCEDURE Foreign body left in during: E8710 SURGICAL OPERATION E8711 INFUSION OR TRANSFUSION E8712
	KIDNEY DIALYSIS OR OTHER PERFUSION E8713 INJECTION OR VACCINATION

E8714 ENDOSCOPIC EXAMINATION E8715 ASPIRATION OF FLUID OR TISSUE, PUNCTURE, AND CATHETERIZATION E8716 HEART CATHETERIZATION E8717 REMOVAL OF CATHETER OR PACKING E8718 OTHER SPECIFIED PROCEDURES E8719 UNSPECIFIED PROCEDURES E8719 UNSPECIFIED PROCEDURE See Pediatric Quality Indicators Appendices: - Appendix B - Surgical DRGs - Appendix D - Medical DRGs - Appendix C - Surgical MS-DRGs - Appendix D - Medical DRGs - Appendix C - Medical MS-DRGs - Appendix D - Medical DRGs - Appendix C - Medical MS-DRGs - normal newborn - normal newborn - normal newborn - normal newborn - newborns weighing less than 500 grams (Birth Weight Category 1) - MDC 14 (pregnancy, childbirth, and puerperium) - with missing discharge gender (SEX-missing). age (AGE-missing), quarter (DQTR=missing). year (YEAR=missing) or principal diagnosis (DI1=missing) See Pediatric Quality Indicators Appendices: - Appendix L - Definitions of Neonate, Newborn, Normal Newborn, and Outborn - Appendix L - Definitions of Neonate, Newborn, Normal Newborn, and Outborn - Appendix L - Definitions of Neonate, Newborn, Normal Newborn, and Outborn - Appendix L - Definitions of Neonate, Newborn, Normal Newborn, and Outborn		0362 Foreign Body left after procedure (PDI 3)
E8715 ASPIRATION OF FLUID OR TISSUE, PUNCTURE, AND CATHETERIZATION E8716 HEART CATHETERIZATION E8717 REMOVAL OF CATHETER OR PACKING E8718 OTHER SPECIFIED PROCEDURES E8719 UNSPECIFIED PROCEDURE See Pediatric Quality Indicators Appendices: - Appendix D - Surgical DRGs - Appendix D - Medical DRGs - Appendix D - Medical MS-DRGs - Appendix D - Medical DRGs - Appendix D - Medical DRGs - Appendix D - Medical MS-DRGs - Appendix D - Medical DRGs - Appendix D - Medical MS-DRGs - Appendix D - Medical MS-DRGs - normal newborn - normal newborn - normal newborn - newborns weighing less than 500 grams (Birth Weight Category 1) - MDC 14 (pregnancy, childbirth, and puerperium) - with missing discharge gender (SEX-missing), age (AGE=missing), quarter (DOTR=missing), year (YEAR=missing) or principal diagnosis fuel of Neonate, Newborn, Normal Newborn, and Outborn - Appendix L - Definitions of Neonate, Newborn, Normal Newborn, and Outborn - Appendix L - Definitions of Neonate, Newborn, Normal Newborn, and Outborn - Appendix L - Definitions of Neonate, Newborn, Normal		E8714
ASPIRATION OF FLUID OR TISSUE, PUNCTURE, AND CATHETERIZATION E8716 HEART CATHETERIZATION E8717 REMOVAL OF CATHETER OR PACKING E8718 OTHER SPECIFIED PROCEDURES E8719 UNSPECIFIED PROCEDURE See Pediatric Quality Indicators Appendices: - Appendix D = Surgical DRGs - Appendix D = Surgical DRGs - Appendix C = Surgical MS-DRGs - Appendix D = Medical DRGs - unit NCD-9-CM codes for foreign body left in during procedure in the principal diagnosis field or secondary diagnosis field if present on admission - normal newborn - newborns weighing less than 500 grams (Birth Weight Category 1) - MDC 14 (pregnaney, childbirth, and puerperium) - with missing discharge gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing) See Pediatric Quality Indicators Appendices: - Appendix L = Definitions of Neonate, Newborn, Normal Newborn, and Outborn - Appendix L = Dow Birth Weight Categories Link to PDI appendices: http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PDI%20Appendices.pdf Denominator Statement Denominator Statement Denominator Not applicable Exclusions Not applicable Exclusions Not applicable Exclusions Not applicable Exclusions Not applicable Exclusions Not applicable Exclusion Not applicable		
E8716 HEART CATHETERIZATION E8717 REMOVAL OF CATHETER OR PACKING E8718 OTHER SPECIFIED PROCEDURES E8719 UNSPECIFIED PROCEDURE See Pediatric Quality Indicators Appendices: - Appendix B - Surgical MS-DRGs - Appendix D - Medical DRGs - Appendix C - Medical DRGs - Appendix C - Medical DRGs - Appendix C - Medical DRGs - Appendix D - Medical DRGs - Appendix C - Medical MS-DRGs - normal newborn - normal newborn - normal newborn - newborns weighting less than 500 grams (Birth Weight Category 1) - MDC 14 (pregnancy, childbirth, and puerperium) - with missing discharge gender (SEX=missing), quarter (DOTR=missing), year (YEAR=missing) or principal diagnosis (DX1-missing) See Pediatric Quality Indicators Appendices: - Appendix L - Low Birth Weight Categories Link to PDI appendices: - h		
HEART CATHETERIZATION E8717 REMOVAL OF CATHETER OR PACKING E8718 OTHER SPECIFIED PROCEDURES E8719 UNSPECIFIED PROCEDURE See Pediatric Quality Indicators Appendices: - Appendix C - Surgical MS-DRGs - Appendix C - Surgical MS-DRGs - Appendix C - Surgical MS-DRGs - Appendix C - Medical DRGs - Appendix C - Medical MS-DRGs - Numerator exclusions: - with ICD-9-CM codes for foreign body left in during procedure in the principal diagnosis field or secondary diagnosis field if present on admission - normal newborn - newdorns weighing less than 500 grams (Birth Weight Category 1) - MDC 14 (pregnancy, childbirth, and puerperium) - with missing discharge gender (SEX-missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing) See Pediatric Quality Indicators Appendices: - Appendix L - Definitions of Neonate, Newborn, Normal Newborn, and Outborn - Appendix L - Low Birth Weight Categories Link to PDI appendices: Htp://quality/indicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PDI%20Appendices.pdf Denominator Statement Denominator		
E8717 REMOVAL OF CATHETER OR PACKING E8718 OTHER SPECIFIED PROCEDURES E8719 UNSPECIFIED PROCEDURE See Pediatric Quality Indicators Appendices: - Appendix D - Surgical DRGs - Appendix C - Surgical MS-DRGs Numerator exclusions: - with ICD-9-CM codes for foreign body left in during procedure in the principal diagnosis field or secondary diagnosis field if present on admission - normal newborn - newborns weighing less than 500 grams (Birth Weight Category 1) - MDC 14 (pregnancy, childbirth, and puerperium) - with missing discharge qender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis for Neonate, Newborn, Normal Newborn, and Outborn - Appendix L – Definitions of Neonate, Newborn, Normal Newborn, and Outborn - Appendix L – Low Birth Weight Categories Link to PDI appendices: - Appendix L – Low Birth Weight Categories Link to PDI applicable Denominator Statement Denominator Denominator Not applicable Exclusions Not applicable Exclusion Not applicable Exclusion		
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	Adjustment	Not applicable
Stratification Not applicable	Stratification	Not applicable
Type Score Count better quality = lower score	Type Score	Count better quality = lower score
Algorithm Identify cases meeting the target outcome. Exclude cases meeting the exclusion criteria. Count the number of case at the	Algorithm	
hospital level. URL Not applicable		
http://qualityindicators.ahrq.gov/Downloads/Resources/Publications/2011/QI%20Empirical%20Methods%2005-03-11.pdf		
Copyright Not applicable	Copyright	Not applicable

	0363 Foreign Body Left During Procedure (PSI 5)
Steward	Agency for Healthcare Research and Quality
Description	Count of discharges with foreign body left in during procedure in medical and surgical discharges among patients 18 years

	0363 Foreign Body Left During Procedure (PSI 5)
	and older or MDC 14 (pregnancy, childbirth, and puerperium)
Туре	Outcome
Data Source	Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. URL http://www.hcup-us.ahrq.gov/sidoverview.jsp Not applicable URL http://qualityindicators.ahrq.gov/Downloads/Software/WinQI/V43/AHRQ%20QI%20Software%20Instructions,%20WinQI.pdf Not applicable
Level	Facility
Setting	Hospital/Acute Care Facility
Numerator Statement	Discharges, 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium), with ICD-9-CM codes for foreign body left in during procedure in any secondary diagnosis field of medical and surgical discharges defined by specific DRGs or MS- DRGs. (Details of medical and surgical discharges defined by specific DRGs or MS-DRGs and exclusions noted in 2a1.3).
Numerator Details	Time Window: User may specify the time window; generally one calendar year
	ICD-9-CM Foreign body left in during procedure diagnosis codes: 9984
	FOREIGN BODY ACCIDENTALLY LEFT DURING A PROCEDURE 9987
	ACUTE REACTIONS TO FOREIGN SUBSTANCE ACCIDENTALLY LEFT DURING A PROCEDURE Foreign body left in during: E8710
	SURGICAL OPERATION E8711
	INFUSION OR TRANSFUSION E8712
	KIDNEY DIALYSIS OR OTHER PERFUSION E8713
	INJECTION OR VACCINATION E8714
	ENDOSCOPIC EXAMINATION E8715
	ASPIRATION OF FLUID OR TISSUE, PUNCTURE, AND CATHETERIZATION E8716
	HEART CATHETERIZATION E8717
	REMOVAL OF CATHETER OR PACKING E8718
	OTHER SPECIFIED PROCEDURES E8719
	UNSPECIFIED PROCEDURE
	See Patient Safety Indicators Appendices:
	- Appendix B – Medical Discharge DRGs - Appendix C – Medical Discharge MS-DRGs
	- Appendix C – Medical Discharge MS-DIKOS
	- Appendix E – Surgical Discharge MS-DRGs
	Link to PSI appendices:
	http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PSI%20Appendices.pdf Numerator exclusions include:
	- cases with the outcome of interest noted as present on admission - cases with the following missing variables: gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year
	(YEAR=missing) or principal diagnosis (DX1=missing)
Denominator	Not applicable

	0363 Foreign Body Left During Procedure (PSI 5)
Statement	
Denominator Details	Time Window: Not applicable
	Not applicable
Exclusions	Not applicable
Exclusion Details	Not applicable
	No risk adjustment or risk stratification Not applicable
Stratification	Not applicable
Type Score	Count better quality = lower score
Algorithm	Identify cases meeting the target outcome. Exclude cases meeting the exclusion criteria. Count the number of case at the hospital level. URL Not applicable http://qualityindicators.ahrq.gov/Downloads/Resources/Publications/2011/QI%20Empirical%20Methods%2005-03-11.pdf
Copyright	Not applicable

	0371 Venous Thromboembolism Prophylaxis
Steward	The Joint Commission
Description	This measure assesses the number of patients who received venous thromboembolism (VTE) prophylaxis or have documentation why no VTE prophylaxis was given the day of or the day after hospital admission or surgery end date for surgeries that start the day of or the day after hospital admission. This measure is part of a set of six nationally implemented prevention and treatment measures that address VTE (VTE-2: ICU VTE Prophylaxis, VTE-3: VTE Patients with Anticoagulation Overlap Therapy, VTE-4: VTE Patients Receiving UFH with Dosages/Platelet Count Monitoring, VTE-5: VTE Warfarin Therapy Discharge Instructions and VTE-6: Incidence of Potentially-Preventable VTE) that are used in The Joint Commission's accreditation process.
Туре	Process
Data Source	Administrative claims, Electronic Clinical Data : Electronic Health Record, Paper Records Each data element in the data dictionary includes suggested data sources. The data are collected using contracted Performance Measurement Systems (vendors) that develop data collection tools based on the measure specifications. The tools are verified and tested by Joint Commission staff to confirm the accuracy and conformance of the data collection tool with the measure specifications. The vendor may not offer the measure set to hospitals until verification has been passed. Attachment VTE 4.0 ManuaLF-634469565251741848.pdf
Level	Facility, Population : National
Setting	Hospital/Acute Care Facility
Numerator Statement	 Patients who received VTE prophylaxis or have documentation why no VTE prophylaxis was given: the day of or the day after hospital admission the day of or the day after surgery end date for surgeries that start the day of or the day after hospital admission
Numerator Details	 Time Window: Episode of Care Five data elements are used to calculate the numerator: Reason for No VTE Prophylaxis – Hospital Admission - Documentation why mechanical or pharmacologic VTE prophylaxis was not administered at hospital admission. Allowable values: Yes or No/UTD. Surgery End Date - The date the surgical procedure ended after hospital admission. Surgical Procedure - A surgical procedure was performed using general or neuraxial anesthesia the day of or the day after hospital admission. Allowable values: Yes or No/UTD VTE Prophylaxis - The type of venous thromboembolism (VTE) prophylaxis documented in the medical record. Allowable values: 1 - 7 or A - None of the above, not documented or UTD. VTE Prophylaxis Date - The month, day, and year that the initial VTE prophylaxis (mechanical and/or

	0371 Venous Thromboembolism Prophylaxis
	pharmacologic) was administered after hospital admission.
Denominator Statement	All discharged hospital inpatients
Denominator Details	Time Window: Episode of care
	 Eleven data elements are used to calculate the denominator: Admission Date – The month, day and year of admission to acute inpatient care. Birthdate - The month, day and year of admission to acute inpatient care. Clinical Trial - Documentation that during this hospital stay the patient was enrolled in a clinical trial in which patients with VTE were being studied. Allowable values: Yes or No/UTD Comfort Measures only - Physician/advanced practice nurse/physician assistant (physician/APN/PA) documentation of comfort measures only. Commonly referred to as "palliative care" in the medical community and "comfort care" by the general public. Palliative care includes attention to the psychological and spiritual needs of the patient and support for the dying patient and the patient's family. Comfort Measures Only are not equivalent to the following: Do Not Resuscitate (DNR), living will, no code, no heroic measure. Allowable values represent the earliest physician/APN/PA documentation: Day 0 or 1, Day 2 or after, Timing unclear or Not Documented/UTD. Discharge Date – The month day and year the patient was discharged from acute care, left against medical advice or expired during the stay. ICD-9-CM Principal Diagnosis Code - The International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) code associated with the diagnosis established after study to be chiefly responsible for occasioning the admission of the patient for this hospitalization. ICD-9-CM Principal Diagnosis Code - The International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) code associated with the diagnosis established after study to be chiefly responsible for occasioning the admission of the patient for this hospitalization. ICD-9-CM Principal Diagnosis Code - The International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) code that identifies the principal procedure performed durin
Exclusions	 Patients less than 18 years of age Patients who have a length of stay (LOS) less than two days and greater than 120 days
	 Patients with Comfort Measures Only documented on day of or day after hospital arrival Patients enrolled in clinical trials Patients who are direct admits to intensive care unit (ICU), or transferred to ICU the day of or the day after hospital admission with ICU LOS greater than or equal to one day Patients with ICD-9-CM Principal Diagnosis Code of Mental Disorders or Stroke as defined in Appendix A, Table 7.01, 8.1 or 8.2 Patients with ICD-9-CM Principal or Other Diagnosis Codes of Obstetrics or VTE as defined in Appendix A, Table 7.02, 7.03 or 7.04 Patients with ICD-9-CM Principal Procedure Code of Surgical Care Improvement Project (SCIP) VTE selected surgeries as defined in Appendix A, Tables 5.17, 5.19, 5.20, 5.21, 5.22, 5.23, 5.24
Exclusion Details	 The patient age in years is equal to the Admission Date minus the Birthdate. Patients less than 18 years are excluded. Length of stay (LOS) in days is equal to the Discharge Date minus the Admission Date. If the LOS is greater than 120 days or equal to or less than 2 days, the patient is excluded.

	0371 Venous Thromboembolism Prophylaxis
	Patients with Comfort Measures Only allowable value of 1 (Day 0 or 1) are excluded.
	Patients are excluded if "Yes" is selected for Clinical Trial.
	The data element ICU Admission or Transfer is used to determine if the patient was admitted to the ICU. If "Yes" is
	selected, the case flows to the ICU Admission Date. If the ICU Admission Date is equal to the hospital admission or the ICU
	Admission Date is the day after the hospital admission date, the ICU Admission and ICU Discharge Date are used to
	determine if the patient was in the ICU for one or more days. If the LOS is less than one day, the patient is excluded from
	VTE-1. In addition, if the patient's ICU Admission Date is prior to the hospital admission day, the patient is excluded (direct admit to ICU).
	Patients with ICD-9-CM Principal Diagnosis Code of Mental Disorders or Stroke are excluded.
	 Patients with ICD-9-CM Principal or Other Diagnosis Codes of Obstetrics or VTE are excluded.
	 Patients with ICD-9-CM Principal Procedure Code of Surgical Care Improvement Project (SCIP) VTE selected
	surgeries are excluded.
	No risk adjustment or risk stratification
	Not applicable
÷	Not Applicable, the measure is not stratified.
	Rate/proportion better quality = higher score
5.	
3	1. Start processing. Run cases that are included in the VTE Initial Patient Population and pass the edits defined in the Transmission Data Processing Flow: Clinical through this measure.
	2. Calculate Length of Stay. Length of Stay, in days, is equal to the Discharge Date minus the Admission Date.
	3. Check Length of Stay
	a. If Length of Stay is less than 2 days, the case will proceed to a Measure Category Assignment of B and will not be in
	the measure population. Stop processing.
	b. If Length of Stay is greater than or equal to 2 days, continue processing and proceed to ICD-9-CM Principal
	Diagnosis Code.
	4. Check ICD-9-CM Principal Diagnosis Code
	a. If the ICD-9-CM Principal Diagnosis Code is on Table 7.01, 8.1, or 8.2, the case will proceed to a Measure Category
	Assignment of B and will not be in the Measure Population. Stop processing.
	b. If the ICD-9-CM Principal Diagnosis Code is not on Table 7.01, 8.1, or 8.2, continue processing and proceed to ICD-
	9-CM Principal or Other Diagnosis Code.
	 Check ICD-9-CM Principal or Other Diagnosis Code If at least one of the ICD-9-CM Principal or Other Diagnosis Code is on Table 7.02, 7.03, or 7.04, the case will
	proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing.
	b. If none of the ICD-9-CM Principal or Other Diagnosis Code is on Table 7.02, 7.03, or 7.04, continue processing and
	proceed to ICD-9-CM Principal Procedure Code.
	6. Check ICD-9-CM Principal Procedure Code
	a. If the ICD-9-CM Principal Procedure Code is on Table 5.17, 5.19, 5.20, 5.21, 5.22, 5.23, or 5.24, the case will
	proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing.
	b. If the ICD-9-CM Principal Procedure Code is missing or not on Table 5.17, 5.19, 5.20, 5.21, 5.22, 5.23, or 5.24,
	continue processing and proceed to Comfort Measures Only.
	7. Check Comfort Measures Only
	a. If Comfort Measures Only is missing, the case will proceed to a Measure Category Assignment of X and will be
	rejected. Stop processing.
	b. If Comfort Measures Only equals 1, the case will proceed to a Measure Category Assignment of B and will not be in
	the measure population. Stop processing. c. If Comfort Measures Only equals 2, 3, or 4, continue processing and proceed to Clinical Trial.
	 If Comfort Measures Only equals 2, 3, or 4, continue processing and proceed to Clinical Trial. 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 VTE Prophylaxis.
	9. Check ICU Admission or Transfer

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a. If ICU Admission or Transfer is missing, the case will proceed to a Measure Category Assignment of X and will be
rejected. Stop processing.
b. If ICU Admission or Transfer is equal to 2 or 3, the case will proceed to VTE Prophylaxis.
c. If ICU Admission or Transfer is equal to 1, continue processing and proceed to ICU Admission Date.
10. Check ICU Admission Date
a. If ICU Admission Date is missing, the case will proceed to a Measure Category Assignment of X and will be rejected.
Stop processing.
b. If ICU Admission 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 ICU Admission Date equals a Non Unable to Determine Value, continue processing and proceed to the Initial ICU
Day calculation.
11. Calculate Initial ICU Day. Initial ICU Day, in days, is equal to ICU Admission Date minus Admission Date.
12. Check Initial ICU Day
a. If the Initial Day is less than 0 days, the case will proceed to a Measure Category Assignment of B and will not be in
the measure population. Stop processing.
b. If the Initial Day is equal to 0 days or 1 day, the case will proceed to ICU Discharge Date.
c. If the Initial Day is greater than or equal to 2 days, continue processing and proceed to VTE Prophylaxis.
13. Check ICU Discharge Date only if Initial ICU Day is less than or equal to 1 day
a. If the ICU Discharge Date is missing, the case will proceed to a Measure Category Assignment of X and will be
rejected. Stop processing.
b. If the ICU Discharge 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 the ICU Discharge Date equals a Non Unable to Determine Value, continue processing and proceed to the ICU LOS calculation.
14. Calculate ICU LOS. ICU LOS is equal to ICU Discharge Date minus ICU Admission Date.
15. Check ICU LOS
a. If ICU LOS is less than zero days, the case will proceed to a Measure Category Assignment of X and will be
rejected. Stop processing.
b. If ICU LOS is greater than or equal to 1 day, the case will proceed to a Measure Category Assignment of B and will
not be in the Measure Population. Stop processing.
c. If ICU LOS is equal to zero days, the case will proceed to VTE Prophylaxis.
5 1 11 5
c. If VTE Prophylaxis is equal to 1,2,3,4,5,6,7 and not equal to A, continue processing and proceed to VTE Prophylaxis
Date.
 hot be in the Measure Population. Stop processing. If ICU LOS is equal to zero days, the case will proceed to VTE Prophylaxis. Check VTE Prophylaxis If VTE Prophylaxis is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing. If VTE Prophylaxis is equal to A, continue processing and proceed to check Reason for No VTE Prophylaxis – Hospital Admission. If Reason for No VTE Prophylaxis - Hospital Admission is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing. If Reason for No VTE Prophylaxis - Hospital Admission equals No, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing. If Reason for No VTE Prophylaxis - Hospital Admission equals Yes, the case will proceed to a Measure Category Assignment of E and will be in the Numerator Population. Stop processing. If VTE Prophylaxis is equal to 1,2,3,4,5,6,7 and not equal to A, continue processing and proceed to VTE Prophylaxis Date

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	19. Check Initial Prophylaxis Day
	a. If Initial Prophylaxis Day is less than zero days, the case will proceed to a Measure category Assignment of X and
	will be rejected. Stop processing.
	b. If Initial Prophylaxis Day is equal to zero days or 1 day, the case will proceed to a Measure Category Assignment of
	E and will be in the Numerator Population. Stop processing. c. If Initial Prophylaxis Day is greater than or equal to 2 days, continue processing and proceed to Surgical Procedure.
	 If Initial Prophylaxis Day is greater than or equal to 2 days, continue processing and proceed to Surgical Procedure. Check Surgical Procedure
	a. If Surgical Procedure is missing, the case will proceed to a Measure Category Assignment of X and will be rejected.
	Stop processing.
	b. If Surgical Procedure equals No, the case will proceed to a Measure Category Assignment of D and will be in the
	Measure Population. Stop processing.
	c. If Surgical Procedure equals Yes, continue processing and proceed to Surgery End Date.
	21. Check Surgery End Date
	a. If the Surgery End Date is missing, the case will proceed to a Measure Category Assignment of X and will be
	rejected. Stop processing.
	b. If the Surgery 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.
	c. If the Surgery End Date equals a Non Unable to Determine Value, continue processing and proceed to the Initial
	Surgical Prophylaxis Day calculation.
	22. Calculate Initial Surgical Prophylaxis Day. Initial Surgical Prophylaxis Day, in days, is equal to the VTE Prophylaxis
	Date minus Surgery End Date.
	23. Check Initial Surgical Prophylaxis Day
	a. If the Initial Surgical Prophylaxis Day is greater than or equal to 2 days, the case will proceed to a Measure Category
	Assignment of D and will be in the Measure Population. Stop processing. If the Initial Surgical Prophylaxis Day is equal to zero days or 1 day, the case will proceed to a Measure Category Assignment
	of E and will be in the Numerator Population. Stop processing. Attachment 2zq_VTE1.pdf
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	Manual is periodically updated by the Centers for Medicare & Medicaid Services and The Joint Commission. Users of the
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	documentation based on the published manual production timelines.

	0372 Intensive Care Unit Venous Thromboembolism Prophylaxis
Steward	The Joint Commission
	This measure assesses the number of patients who received venous thromboembolism (VTE) prophylaxis or have documentation why no VTE prophylaxis was given the day of or the day after the initial admission (or transfer) to the Intensive Care Unit (ICU) or surgery end date for surgeries that start the day of or the day after ICU admission (or transfer). This measure is part of a set of six prevention and treatment measures that address VTE (VTE-1: VTE Prophylaxis, VTE-3: VTE Patients with Anticoagulation Overlap Therapy, VTE-4: VTE Patients Receiving UFH with Dosages/Platelet Count Monitoring by Protocol, VTE-5: VTE Warfarin Therapy Discharge Instructions and VTE-6: VTE Incidence of Potentially-Preventable VTE).
Туре	Process

	0372 Intensive Care Unit Venous Thromboembolism Prophylaxis
	Administrative claims, Electronic Clinical Data, Paper Records Each data element in the data dictionary includes suggested
	data sources. The data are collected using contracted Performance Measurement Systems (vendors) that develop data collection tools based on the measure specifications. The tools are verified and tested by Joint Commission staff to confirm the accuracy and conformance of the data collection tool with the measure specifications. The vendor may not offer the measure set to hospitals until verification has been passed. Attachment VTE 4.0 ManuaLF-634469622988616848.pdf
Level	Facility, Population : National
Setting	Hospital/Acute Care Facility
Numerator Statement	Patients who received VTE prophylaxis or have documentation why no VTE prophylaxis was given:
	 the day of or the day after ICU admission (or transfer) the day of or the day after surgery end date for surgeries that start the day of or the day after ICU admission (or transfer)
Numerator Details	Time Window: Episode of Care
	 Six data elements are used to calculate the numerator: Anesthesia Start Date The date the anesthesia for the procedure started. ICU VTE Prophylaxis The type of venous thromboembolism (VTE) prophylaxis that was initially administered in the ICU. Allowable values: 1 - 7 or A – None of the above, not documented or UTD. ICU VTE Prophylaxis Date The day, month and year that the initial VTE prophylaxis (mechanical and/or pharmacologic) option was administered after admission/transfer to the intensive care unit (ICU). Reason for No VTE Prophylaxis – ICU Admission Documentation why mechanical or pharmacologic VTE prophylaxis was not administered at ICU admission/transfer. Allowable values: Yes or No/UTD. Surgery End Date – ICU Admission A surgical procedure was performed using general or neuraxial anesthesia the day of or the day after ICU admission or transfer. Allowable values: Yes or No/UTD
Denominator Statement	Patients directly admitted or transferred to ICU
Details	 Time Window: Episode of care Eleven data elements are used to calculate the denominator: Admission Date – The month, day and year of admission to acute inpatient care. Birthdate - The month, day and year the patient was born. Clinical Trial - Documentation that during this hospital stay the patient was enrolled in a clinical trial in which patients with the same condition as the measure set were being studied. Allowable values: Yes or No/UTD Comfort Measures Only - Physician/advanced practice nurse/physician assistant (physician/APN/PA) documentation
	 of comfort measures only. Commonly referred to as "palliative care" in the medical community and "comfort care" by the general public. Palliative care includes attention to the psychological and spiritual needs of the patient and support for the dying patient and the patient's family. Comfort Measures Only are not equivalent to the following: Do Not Resuscitate (DNR), living will, no code, no heroic measure. Allowable values represent the earliest physician/APN/PA documentation: Day 0 or 1, Day 2 or after, Timing unclear or Not Documented/UTD. 5. Discharge Date – The month day and year the patient was discharged from acute care, left against medical advice or expired during the stay. 6. ICD-9-CM Other Diagnosis Codes - The International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) code associated with the diagnosis for this hospitalization. 7. ICD-9-CM Other Diagnosis Code - The International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) code associated with the diagnosis established after study to be chiefly responsible for occasioning the admission of the patient for this hospitalization. 8. ICD-9-CM Principal Procedure Code - The International Classification of Diseases, Ninth Revision, Clinical
	Modification (ICD-9-CM) code that identifies the principal procedure performed during this hospitalization. The principal procedure is the procedure performed for definitive treatment rather than diagnostic or exploratory purposes, or which is

essary to take care of a complication. ICU Admission Date - The day, month and year that the order was written for the patient to be directly admitted or isferred (from a lower level of care) to the intensive care unit (ICU). ICU Admission or Transfer - Documentation that the patient was admitted or transferred to the intensive care unit J) at this hospital. The definition of an ICU for the purpose of the measures noted above is that used by the CDC in the SN Patient Safety Project. An intensive care unit can be defined as a nursing care area that provides intensive observation, gnosis, and therapeutic procedures for adults and/or children who are critically ill. An ICU excludes nursing areas that vide step-down, intermediate care or telemetry only and specialty care areas. ICU Discharge Date - The day, month and year that the order was written to discharge the patient from the intensive e unit (ICU), left against medical advice (AMA) or expired. ase note: The majority of general data elements that are missing data cause the EOC record to be rejected. Patients less than 18 years of age Patients who have a hospital length of stay (LOS) less than two days and greater than 120 days Patients with Comfort Measures Only documented on day of or day after hospital arrival
Patients who have a hospital length of stay (LOS) less than two days and greater than 120 days
Patients enrolled in clinical trials Patients with ICU LOS less than one day without VTE prophylaxis administered and documentation for no VTE phylaxis Patients with ICD-9-CM Principal or Other Diagnosis Code of Obstetrics or VTE as defined in Appendix A, Table 2, 7.03, or 7.04
Patients with ICD-9-CM Principal Procedure Code of Surgical Care Improvement Project (SCIP) VTE selected geries as defined in Appendix A, Tables 5.17, 5.19, 5.20, 5.21, 5.22, 5.23, 5.24 that start the day of or the day after ICU nission or transfer
The patient age in years is equal to the Admission Date minus the Birthdate. The month and day portion of the nission date and birthdate are used to yield the most accurate age. Patients less than 18 years are excluded. Length of stay (LOS) in days is equal to the Discharge Date minus the Admission Date. If the LOS is greater than a days or equal to or less than 2 days, the patient is excluded. Patients with Comfort Measures Only allowable value of 1 (Day 0 or 1) are excluded. Patients are excluded if "Yes" is selected for Clinical Trial. The data element ICU Admission Date and ICU Discharge Date. The ICU Admission and ICU Discharge Date are d to determine if the patient was in the ICU for one or more days. If the ICU LOS is less than one day, the patient is luded from VTE-2. Patients with ICD-9-CM Principal or Other Diagnosis Codes of Obstetrics or VTE are excluded. Patients with ICD-9-CM Principal Procedure Code of Surgical Care Improvement Project (SCIP) VTE selected geries are excluded if the surgery started the day of or the day after ICU admission or transfer.
risk adjustment or risk stratification applicable
Applicable, the measure is not stratified.
e/proportion better quality = higher score
Start processing. Run cases that are included in the VTE Initial Patient Population and pass the edits defined in the nsmission Data Processing Flow: Clinical through this measure. Calculate Length of Stay. Length of Stay, in days, is equal to the Discharge Date minus the Admission Date. Check Length of Stay ^E Length of Stay is less than 2 days, the case will proceed to a Measure Category Assignment of B and will not be in the asure population. Stop processing. ^E Length of Stay is greater than or equal to 2 days, continue processing and proceed to ICD-9-CM Principal or Other gnosis Code. ^E Length of the ICD-9-CM Principal or Other Diagnosis Code ^E at least one of the ICD-9-CM Principal or Other Diagnosis Code is on Table 7.02, 7.03, or 7.04, the case will proceed to a asure Category Assignment of B and will not be in the Measure Population. Stop processing.

0372 Intensive Care Unit Venous Thromboembolism Prophylaxis
5. Check Comfort Measures Only
a. If Comfort Measures Only is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing.
b. If Comfort Measures Only equals 1, the case will proceed to a Measure Category Assignment of B and will not be in the measure population. Stop processing.
 c. If Comfort Measures Only equals 2, 3, or 4, continue processing and proceed to Clinical Trial. 6. 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 ICU Admission or Transfer.
7. Check ICU Admission or Transfer a. If ICU Admission or Transfer is missing, the case will proceed to a Measure Category Assignment of X and will be rejected.
Stop processing.
b. If ICU Admission or Transfer is equal to 2 or 3, the case will proceed to a Measure Category Assignment of B and will not be in the measure population. Stop processing.
 c. If ICU Admission or Transfer is equal to 1, continue processing and proceed to ICU Admission Date. 8. Check ICU Admission Date
a. If ICU Admission Date is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing.
b. If ICU Admission 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 ICU Admission Date equals a Non Unable to Determine Value, continue processing and proceed to the ICD-9-CM
Principal Procedure Code. 9. Check ICD-9-CM Principal Procedure Code
a. If ICD-9-CM Principal Procedure Code is on Tables 5.17, 5.19, 5.20, 5.21, 5.22, 5.23, or 5.24, the case will proceed to Anesthesia Start Date.
b. If ICD-9-CM Principal Procedure Code is missing or not on Tables 5.17, 5.19, 5.20, 5.21, 5.22, 5.23, or 5.24, the case will proceed to ICU Discharge Date.
10. Check Anesthesia Start Date only if ICD-9-CM Principal Procedure Code is on Tables 5.17, 5.19, 5.20, 5.21, 5.22, 5.23, or 5.24.
a. If Anesthesia Start Date is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing.
b. If Anesthesia Start Date equals Unable to Determine, the case will proceed to a Measure Category Assignment of D and will
be in the Measure Population. Stop processing. c. If Anesthesia Start Date equals a Non Unable to Determine Value, continue processing and proceed to the ICU Initial
Surgery Day calculation. 11. Calculate ICU Initial Surgery Day. ICU Initial Surgery Day, in days, is equal to the Anesthesia Start Date minus the ICU
Admission Date. 12. Check ICU Initial Surgery Day
a. If ICU Initial Surgery Day is less than or equal to 1 day, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing.
b. If Initial Surgery Day is greater than or equal to 2 days, continue processing and proceed to ICU Discharge Date.
13. Check ICU Discharge Date a. If ICU Discharge Date is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop
processing. b. If ICU Discharge 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 ICU Discharge Date equals a Non Unable to Determine Value, continue processing and proceed to the ICU VTE
Prophylaxis.
14. Check ICU VTE Prophylaxis a. If ICU VTE Prophylaxis is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop

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processing.
b. If ICU VTE Prophylaxis is equal to A, continue processing and proceed to Reason for No VTE Prophylaxis – ICU Admissic c. If ICU VTE Prophylaxis is equal to 1, 2, 3, 4, 5, 6, 7 and not equal to A, continue processing and proceed to ICU VTE
Prophylaxis Date.
15. Check Reason for No VTE Prophylaxis – ICU Admission only if ICU VTE Prophylaxis is equal to A.
a. If Reason for No VTE Prophylaxis – ICU Admission is missing, the case will proceed to a Measure Category Assignment of
X and will be rejected. Stop processing.
b. If Reason for No VTE Prophylaxis – ICU Admission equals Yes, the case will proceed to a Measure Category Assignment
of E and will be in the Numerator Population. Stop processing. c. If Reason for No VTE Prophylaxis – ICU Admission equals No, continue processing and proceed to the ICU LOS
calculation.
16. Calculate ICU LOS. ICU LOS is equal to ICU Discharge Date minus ICU Admission Date.
17. Check ICU LOS
a. If ICU LOS is less than zero days, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop
processing.
b. If ICU LOS is equal to zero days, the case will proceed to a Measure Category Assignment of B and will not be in the
Measure Population. Stop processing.
c. If ICU LOS is greater than or equal to 1 day, the case will proceed to a Measure Category Assignment of D and wi
be in the Measure Population. Stop processing.
18. Check ICU VTE Prophylaxis Date
a. If ICU VTE Prophylaxis Date is missing, the case will proceed to a Measure Category Assignment of X and will be
rejected. Stop processing.
b. If ICU VTE Prophylaxis Date equals Unable to Determine, the case will proceed to a Measure Category Assignme
of D and will be in the Measure Population. Stop processing.
c. If ICU VTE Prophylaxis Date equals a Non Unable to Determine Value, continue processing and proceed to the IC
Initial Prophylaxis Day calculation.
19. Calculate ICU Initial Prophylaxis Day. ICU Initial Prophylaxis Day, in days, is equal to ICU VTE Prophylaxis Date minus
ICU Admission Date.
20. Check ICU Initial Prophylaxis Day
a. If ICU Initial Prophylaxis Day is less than zero days, the case will proceed to a Measure Category Assignment of X and wi
be rejected. Stop processing.
b. If ICU Initial Prophylaxis Day is equal to zero days or 1 day, the case will proceed to a Measure Category Assignment of I
and will be in the Numerator Population. Stop processing.
c. If ICU Initial Prophylaxis Day is greater than or equal to 2 days, continue processing and proceed to Surgical Procedure –
ICU Admission.
21. Check Surgical Procedure – ICU Admission a. If Surgical Procedure ICU Admission is missing, the case will proceed to a Measure Category Assignment of X and will be
rejected. Stop processing.
b. If Surgical Procedure ICU Admission equals No, the case will proceed to a Measure Category Assignment of D and will be
in the Measure Population. Stop processing.
c. If Surgical Procedure ICU Admission equals Yes, continue processing and proceed to Surgery End Date - ICU Admission
22. Check Surgery End Date - ICU Admission
a. If Surgery End Date - ICU Admission is missing, the case will proceed to a Measure Category Assignment of X and will be
rejected. Stop processing.
b. If Surgery End Date - ICU Admission 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 Surgery End Date - ICU Admission equals a Non Unable to Determine Value, continue processing and proceed to the ICU
Initial Surgical Prophylaxis Day calculation.
23. Calculate ICU Initial Surgical Prophylaxis Day. ICU Initial Surgical Prophylaxis Day, in days, is equal to the ICU VTE
Prophylaxis Date minus Surgery End Date - ICU Admission.
24. Check ICU Initial Surgical Prophylaxis Day

	0372 Intensive Care Unit Venous Thromboembolism Prophylaxis
	 a. If ICU Initial Surgical Prophylaxis Day is greater than or equal to 2 days, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing. b. If ICU Initial Surgical Prophylaxis Day is equal to zero days or 1 day, the case will proceed to a Measure Category Assignment of E and will be in the Numerator Population. Stop processing. Attachment 2zr_VTE2.pdf
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	0373 Venous Thromboembolism Patients with Anticoagulant Overlap Therapy
Steward	The Joint Commission
Description	This measure assesses the number of patients diagnosed with confirmed VTE who received an overlap of Parenteral (intravenous [IV] or subcutaneous [subcu]) anticoagulation and warfarin therapy. For patients who received less than five days of overlap therapy, they should be discharged on both medications and have a Reason for Discontinuation of Overlap Therapy. Overlap therapy should be administered for at least five days with an international normalized ratio (INR) greater than or equal to 2 prior to discontinuation of the parenteral anticoagulation therapy, or INR less than 2 but discharged on both medications or have a Reason for Discontinuation of Overlap Therapy. This measure is part of a set of six prevention and treatment measures that address VTE (VTE-1: VTE Prophylaxis, VTE-2: ICU VTE Prophylaxis, VTE-4: VTE Patients Receiving UFH with Dosages/Platelet Count Monitoring, VTE-5: VTE Warfarin Therapy Discharge Instructions and VTE-6: Incidence of Potentially-Preventable VTE).
Туре	Process
Data Source	Administrative claims, Electronic Clinical Data, Paper Records Each data element in the data dictionary includes suggested data sources. The data are collected using contracted Performance Measurement Systems (vendors) that develop data collection tools based on the measure specifications. The tools are verified and tested by Joint Commission staff to confirm the accuracy and conformance of the data collection tool with the measure specifications. Verification must be completed and passed before the vendor can offer the data collection tool to hospitals. Attachment VTE 4.0 ManuaLF-634469519104709898.pdf
Level	Facility, Population : National
Setting	Hospital/Acute Care Facility
Numerator Statement	 Patients who received overlap therapy: Included Populations: Patients who received warfarin and parenteral anticoagulation: Five or more days, with an INR greater than or equal to 2 prior to discontinuation of parenteral therapy OR Five or more days, with an INR less than 2 and discharged on overlap therapy OR Less than five days and discharged on overlap therapy OR With documentation of reason for discontinuation of overlap therapy OR With documentation of a reason for no overlap therapy
Numerator	Time Window: Episode of care
Details	Six data elements are used to calculate the numerator: 1. INR Value - Documentation of an international normalized ratio (INR) value greater than or equal to 2 prior to

	0373 Venous Thromboembolism Patients with Anticoagulant Overlap Therapy
	discontinuation of the parenteral anticoagulation therapy. Allowable Value (AV): Yes or No/UTD
	2. Overlap Therapy - Documentation that parenteral (intravenous [IV] or subcutaneous [subcu]) anticoagulation therapy
	and warfarin were both administered on the same day or a reason is documented why overlap therapy was not initiated.
	Allowable Value: 1- There was documentation of overlap therapy; 2 - There is a reason for no overlap therapy; or 3- There was
	no overlap therapy and no reason/UTD.
	3. Overlap Therapy Start Date - The first date that the parenteral (intravenous [IV] or subcutaneous [subcu])
	anticoagulation therapy and warfarin were administered.
	4. Parenteral Anticoagulant End Date - The last date that a parenteral (intravenous [IV] or subcutaneous [subcu])
	anticoagulant medication was administered.
	5. Parenteral Anticoagulant Prescribed at Discharge - Documentation that a parenteral (intravenous [IV] or
	subcutaneous [subcu]) anticoagulant medication was prescribed at discharge. Allowable Value: Yes or No/UTD
	6. Reason for Discontinuation of Overlap Therapy - Documentation of a reason for discontinuation of the overlap
	therapy by a physician/advanced practice nurse/physician assistant or pharmacist (physician/APN/PA or pharmacist).
	Allowable Value: Yes or No/UTD
	Patients with confirmed VTE who received warfarin. The target population includes patients discharged with an ICD-9-CM
	Principal or Other Diagnosis Codes for VTE as defined in Table 7.03 or Table 7.04.
	Time Window: Episode of Care
Details	Flower data elements are used to coloulate the denominator.
	Eleven data elements are used to calculate the denominator:
	 Admission Date – The month, day and year of admission to acute inpatient care. Bitthdate. The month day and year the patient was here.
	 Birthdate - The month, day and year the patient was born. Clinical Trial - Documentation that during this hospital stay the patient was enrolled in a clinical trial in which patients
	3. Clinical Trial - Documentation that during this hospital stay the patient was enrolled in a clinical trial in which patients with the same condition as the measure set were being studied. Allowable values: Yes or No/UTD
	4. Comfort Measures Only - Physician/advanced practice nurse/physician assistant (physician/APN/PA) documentation
	of comfort measures only. Commonly referred to as "palliative care" in the medical community and "comfort care" by the
	general public. Palliative care includes attention to the psychological and spiritual needs of the patient and support for the
	dying patient and the patient's family. Comfort Measures Only are not equivalent to the following: Do Not Resuscitate (DNR),
	living will, no code, and no heroic measure. Allowable values represent the earliest physician/APN/PA documentation: (AV 1)
	Day 0 or 1, (AV 2) Day 2 or after, (AV 3) Timing unclear or (AV 4) Not Documented/UTD.
	5. Discharge Date – The month day and year the patient was discharged from acute care, left against medical advice
	or expired during the stay.
	 Discharge Disposition - The final place or setting to which the patient was discharged on the day of discharge.
	Allowable values: 1-8.
	7. ICD-9-CM Other Diagnosis Codes - The International Classification of Diseases, Ninth Revision, Clinical
	Modification (ICD-9-CM) codes associated with the secondary diagnoses for this hospitalization.
	8. ICD-9-CM Principal Diagnosis Code - The International Classification of Diseases, Ninth Revision, Clinical
	Modification (ICD-9-CM) code associated with the diagnosis established after study to be chiefly responsible for occasioning
	the admission of the patient for this hospitalization.
	9. VTE Confirmed – Documentation by a physician/advanced practice nurse/physician assistant (physician/APN/PA)
	that a diagnosis of VTE [deep vein thrombosis (DVT) and/or pulmonary embolism (PE)] was confirmed in a defined location.
	Allowable values: Yes or No/UTD
	10. VTE Diagnostic Test – Documentation that a diagnostic test for VTE was performed. Allowable values: Yes or
	No/UTD
	11. Warfarin Administration - Documentation that warfarin was administered during hospitalization. Allowable values:
	Yes or No/UTD.
Exclusions	Patients less than 18 years of age
	Patients who have a length of stay greater than 120 days
	Patients with Comfort Measures Only documented
	Patients enrolled in clinical trials
	Patients discharged to a health care facility for hospice care
	Patients discharged to home for hospice care
	Patients who expired
	Patients who left against medical advice

	0373 Venous Thromboembolism Patients with Anticoagulant Overlap Therapy
	Patients discharged to another hospital
	Patients without warfarin therapy during hospitalization
	Patients without VTE confirmed by diagnostic testing
Exclusion	Patient without a Principal or Other ICD-9-CM Diagnosis Code on Table 7.03 or 7.04 are excluded.
Details	• The patient age in years is equal to the Admission Date minus the Birthdate. Patients less than 18 years are
	excluded.
	Length of stay (LOS) in days is equal to the Discharge Date minus the Admission Date. If the LOS is greater than
	120 days, the patient is excluded.
	Patients with AV 1,2 or 3 for Comfort Measures Only are excluded.
	Patients are excluded if "Yes" is selected for Clinical Trial.
	• The allowable values (AV) 2, 3, 4, 6 and 7 for Discharge Disposition exclude patients who are discharged to a health
	care facility for hospice care, home to hospice care, expired, left against medical advice, or to another hospital.
	Patients are excluded if "No" is selected for Warfarin Administration.
	 Patients are excluded if "No" is selected for VTE Diagnostic Test. Patients are excluded if "No" is selected for VTE Confirmed.
D'ala	
Risk Adjustment	No risk adjustment or risk stratification Not Applicable
2	Not Applicable, the measure is not stratified.
	Rate/proportion better quality = higher score
Algorithm	1. Start processing. Run cases that are included in the VTE Initial Patient Population and pass the edits defined in
Algorithm	Transmission Data Processing Flow: Clinical through this measure.
	 Check ICD-9-CM Principal or Other Diagnosis Code
	a. If none of the ICD-9-CM Principal or Other Diagnosis Code is on Table 7.03 or 7.04 (VTE, Obstetrics-VTE), the case
	will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing.
	b. If at least one of the ICD-9-CM Principal or Other Diagnosis Code is on Table 7.03 or 7.04, continue processing and
	proceed to Comfort Measures Only.
	3. Check Comfort Measures Only
	a. If Comfort Measures Only is missing, the case will proceed to a Measure Category Assignment of X and will be
	rejected. Stop processing.
	b. If Comfort Measures Only equals 1, 2 or 3, the case will proceed to a Measure Category Assignment of B and will
	not be in the measure population. Stop processing.
	c. If Comfort Measures Only equals 4, continue processing and proceed to Clinical Trial.
	4. 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 Discharge Disposition.
	 c. If Clinical Trial equals No, continue processing and proceed to Discharge Disposition. 5. Check Discharge Disposition
	a. If Discharge Disposition equals 2, 3, 4, 6, 7, the case will proceed to a Measure Category Assignment of B and will
	not be in the measure population. Stop processing.
	b. If Discharge Disposition equals 1, 5, 8, continue processing and proceed to VTE Diagnostic Test.
	 Check VTE Diagnostic Test
	a. If VTE Diagnostic Test is missing, the case will proceed to a Measure Category Assignment of X and will be
	rejected. Stop processing.
	b. If VTE Diagnostic Test 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 VTE Diagnostic Test equals Yes, continue processing and proceed to VTE Confirmed.
	7. Check VTE Confirmed
	a. If VTE Confirmed is missing, the case will proceed to a Measure Category Assignment of X and will be rejected.
	Stop processing.
	b. If VTE Confirmed equals No, the case will proceed to a Measure Category Assignment of B and will not be in the

0373 Venous Thromboembolism Patients with Anticoagulant Overlap Therapy
measure population. Stop processing.
c. If VTE Confirmed equals Yes, continue processing and proceed to Warfarin Administration.
8. Check Warfarin Administration
a. If Warfarin Administration is missing, the case will proceed to a Measure Category Assignment of X and will be rejected.
Stop processing.
If Warfarin Administration 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 Warfarin Administration equals Yes, continue processing and proceed to Overlap Therapy.
9. Check Overlap Therapy
a. If Overlap Therapy is missing, the case will proceed to a Measure Category Assignment of X and will be rejected.
Stop processing.
b. If Overlap Therapy equals 2, the case will proceed to a Measure Category Assignment of B and will not be in the
Measure Population. Stop processing.
c. If Overlap Therapy equals 3, the case will proceed to a Measure Category Assignment of D and will be in the
Measure Population. Stop processing.
d. If Overlap Therapy equals 1, continue processing and proceed to the Overlap Therapy Start Date.
10. Check Overlap Therapy Start Date
a. If Overlap Therapy Start Date is missing, the case will proceed to a Measure Category Assignment of X and will be
rejected. Stop processing.
b. If the Overlap Therapy 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 Overlap Therapy Start Date equals a Non Unable to Determine Value, continue processing and proceed to the
Parenteral Anticoagulant End Date.
11. Check Parenteral Anticoagulant End Date
a. If Parenteral Anticoagulant End Date is missing, the case will proceed to a Measure Category Assignment of X an
will be rejected. Stop processing.
b. If the Parenteral Anticoagulant End Date equals Unable to Determine, the case will proceed to a Measure Categor
Assignment of D and will be in the Measure Population. Stop processing.
c. If Parenteral Anticoagulant End Date equals a Non Unable to Determine Value, continue processing and proceed
the Overlap Therapy Days calculation.
12. Calculate Overlap Therapy Days. Overlap Therapy Days, in days, is equal to Parenteral Anticoagulant End Date
minus Overlap Therapy Start Date.
13. Check Overlap Therapy Days
a. If Overlap Therapy Days is less than 0 days, the case will proceed to a Measure Category Assignment of D and w
be in the Measure Population. Stop processing.
b. If Overlap Therapy Days is greater than or equal to 4 days, continue processing and proceed to INR Value.
a. If INR Value is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing.
b. If INR Value equals Yes, the case will proceed to a Measure Category Assignment of E and will be in the Numera
Population. Stop processing.
c. If Overlap Therapy Days is greater than or equal to zero days and less than 4 days, continue processing and
proceed to Parenteral Anticoagulant Prescribed at Discharge.
14. Check Parenteral Anticoagulant Prescribed at Discharge
a. If Parenteral Anticoagulant Prescribed at Discharge is missing, the case will proceed to a Measure Category
Assignment of X and will be rejected. Stop processing.
b. If Parenteral Anticoagulant Prescribed at Discharge equals Yes, the case will proceed to a Measure Category
Assignment of E and will be in the Numerator Population. Stop processing.
c. If Parenteral Anticoagulant Prescribed at Discharge equals No, continue processing and proceed to Reason for
Discontinuation of Overlap Therapy.
15. Check Reason for Discontinuation of Overlap Therapy
a. If Reason for Discontinuation of Overlap Therapy is missing, the case will proceed to a Measure Category
Assignment of X and will be rejected. Stop processing.

	0373 Venous Thromboembolism Patients with Anticoagulant Overlap Therapy
	 b. If Reason for Discontinuation of Overlap Therapy equals Yes, the case will proceed to a Measure Category Assignment of E and will be in the Numerator Population. Stop processing. c. If Reason for Discontinuation of Overlap Therapy equals No, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. Stop processing. Attachment 2zs_VTE3.pdf
Copyright	The Specifications Manual for National Hospital Inpatient Quality Measures (Specifications Manual) is the result of the collaborative efforts of the Centers for Medicare & Medicaid Services (CMS) and The Joint Commission to publish a uniform set of national hospital quality measures. A primary objective of this collaborative effort is to promote and enhance the utility of these measures for all hospitals. No royalty or use fee is required for copying or reprinting this manual, but the following are required as a condition of usage: 1) disclosure that the Specifications Manual is periodically updated, and that the version being copied or reprinted may not be up-to-date when used unless the copier or printer has verified the version to be up-to-date and affirms that, and 2) users participating in the QIO supported initiatives, the Hospital Inpatient Quality Reporting Program, and Joint Commission accreditation; including performance measures systems; are required to update their software and associated documentation based on the published manual production timelines. Example Acknowledgement: The Specifications Manual for National Hospital Inpatient Quality Measures [Version xx, Month, Year] is the collaborative work of the Centers for Medicare & Medicaid Services and The Joint Commission. Users of the Specifications Manual for National Hospital Inpatient Quality Measures and associated documentation based on the published manual production timelines.

	0376 Incidence of Potentially Preventable Venous Thromboembolism	
Steward	The Joint Commission	
Description	This measure assesses the number of patients with confirmed venous thromboembolism (VTE) during hospitalization (not present at admission) who did not receive VTE prophylaxis between hospital admission and the day before the VTE diagnostic testing order date. This measure is part of a set of six prevention and treatment measures that address VTE (VTE-1: VTE Prophylaxis, VTE-2: ICU VTE Prophylaxis, VTE-3: VTE Patients with Anticoagulation Overlap Therapy, VTE-4: VTE Patients Receiving UFH with Dosages/Platelet Count Monitoring by Protocol, and VTE-5: VTE Warfarin Therapy Discharge Instructions).	
Туре	Outcome	
Data Source	Administrative claims, Paper Records Each data element in the data dictionary includes suggested data sources. The data are collected using contracted Performance Measurement Systems (vendors) that develop data collection tools based on the measure specifications. The tools are verified and tested by Joint Commission staff to confirm the accuracy and conformance of the data collection tool with the measure specifications. Verification must be completed and passed before the vendor can offer the data collection tool to hospitals. Attachment VTE 4.0 ManuaLF-634469532965647398.pdf	
Level	Facility, Population : National	
Setting	Hospital/Acute Care Facility	
Numerator Statement	Patients who received no VTE prophylaxis prior to the VTE diagnostic test order date	
Numerator Details	Time Window: Episode of Care One data element is used to calculate the numerator: VTE Prophylaxis Status - Documentation of VTE prophylaxis (mechanical and/or pharmacologic) administration between the hospital admission date and the day before the VTE diagnostic test order date. Allowable Value (AV): 1 There is documentation that VTE prophylaxis was administered between the day of admission and the day before the VTE diagnostic test order date, 2 There is no documentation that VTE prophylaxis was administered between the day of admission and the day before the VTE diagnostic test order date or unable to determine from medical record documentation, or 3 There is physician/advanced practice nurse/physician assistant (physician/APN/PA) or pharmacist documentation of a reason for not administering mechanical and pharmacological VTE prophylaxis during hospitalization.	
Denominator	Patients who developed confirmed VTE during hospitalization. The target population includes patients discharged with an ICD-	

	0376 Incidence of Potentially Preventable Venous Thromboembolism		
Statement	9-CM Secondary Diagnosis Codes for VTE as defined in Table 7.03 or Table 7.04.		
Denominator Details	Time Window: Episode of Care		
	Ten data elements are used to calculate the denominator:		
	1. Admission Date – The month, day and year of admission to acute inpatient care.		
	2. Birthdate - The month, day and year the patient was born.		
	Clinical Trial - Documentation that during this hospital stay the patient was enrolled in a clinical trial in which patients with the same condition as the measure set were being studied. Allowable values: Yes or No/UTD		
	4. Comfort Measures Only - Physician/advanced practice nurse/physician assistant (physician/APN/PA) documentation of		
	comfort measures only. Commonly referred to as "palliative care" in the medical community and "comfort care" by the general		
	public. Palliative care includes attention to the psychological and spiritual needs of the patient and support for the dying patient		
	and the patient s family. Comfort Measures Only are not equivalent to the following: Do Not Resuscitate (DNR), living will, no code, no heroic measure. Allowable values represent the earliest physician/APN/PA documentation: (AV 1) Day 0 or 1, (AV 2) Day 2 or after, (AV 3) Timing unclear or (AV 4) Not Documented/UTD.		
	5. Discharge Date – The month day and year the patient was discharged from acute care, left against medical advice or expired during the stay.		
	6. ICD-9-CM Other Diagnosis Codes - The International Classification of Diseases, Ninth Revision, Clinical Modification (ICD- 9-CM) codes associated with the Secondary diagnoses for this hospitalization.		
	7. ICD-9-CM Principal Diagnosis Code - The International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) code associated with the diagnosis established after study to be chiefly responsible for occasioning the admission of the patient for this hospitalization.		
	8. VTE Confirmed – Documentation by a physician/advanced practice nurse/physician assistant (physician/APN/PA) that a		
	diagnosis of VTE [deep vein thrombosis (DVT) and/or pulmonary embolism (PE)] was confirmed in a defined location.		
	Allowable values: Yes or No/UTD		
	 VTE Diagnostic Test – Documentation that a diagnostic test for VTE was performed. Allowable values: Yes or No/UTD VTE Present at Admission - Documentation by a physician/advanced practice nurse/physician assistant (physician/APN/PA) that VTE was diagnosed or suspected on admission. Allowable values: Yes or No/UTD. 		
Exclusions	. Patients less than 18 years of age		
EXClusions	Patients who have a length of stay greater than 120 days		
	Patients with Comfort Measures Only documented		
	Patients enrolled in clinical trials		
	Patients with ICD-9-CM Principal Diagnosis Code of VTE as defined in Appendix A, Table 7.03 or 7.04 Determined with VTE Present at Administration		
	 Patients with VTE Present at Admission Patients with reasons for not administering mechanical and pharmacologic prophylaxis 		
	Patients with reasons for not administering mechanical and pharmacologic prophylaxis Patients without VTE confirmed by diagnostic testing		
Exclusion	The patient age in years is equal to the Admission Date minus the Birthdate. The month and day portion of the admission date		
Details	and birthdate are used to yield the most accurate age. Patients less than 18 years are excluded.		
	• Length of stay (LOS) in days is equal to the Discharge Date minus the Admission Date. If the LOS is greater than 120 days,		
	the patient is excluded. • Patients are excluded if allowable value 1, 2 or 3 is selected for Comfort Measures Only.		
	• Patients are excluded if allowable value 1, 2 of 5 is selected for Conflict Measures Only.		
	Patients with a Principal ICD-9-CM Diagnosis Code on Table 7.03 or 7.04. are excluded.		
	Patients are excluded if "Yes" is selected for VTE Present at Admission.		
	 Patients are excluded if allowable value "3" is selected for VTE Prophylaxis Status. 		
	Patients are excluded if "No" is selected for VTE Diagnostic Test.		
Diale	Patients are excluded if "No" is selected for VTE Confirmed.		
Risk Adjustment	No risk adjustment or risk stratification No risk adjustment or risk stratification as intermediate outcome		
-	Not Applicable		
	Rate/proportion better quality = lower score		
Algorithm	1. Start processing. Run cases that are included in the VTE Initial Patient Population and pass the edits defined in the		
Ŭ	Transmission Data Processing Flow: Clinical through this measure.		

	0376 Incidence of Potentially Preventable Venous Thromboembolism
	 Check ICD-9-CM Principal Diagnosis Code If the ICD-9-CM Principal Diagnosis Code is on Table 7.03 or 7.04 (VTE, Obstetrics-VTE), the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing. If the ICD-9-CM Principal Diagnosis Code is not on Table 7.03 or 7.04, continue processing and proceed to ICD-9-CM Other Diagnosis Code. Check ICD-9-CM Other Diagnosis Codes If all ICD-9-CM Other Diagnosis Codes are missing or none of them on Table 7.03 or 7.04, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing. If all ICD-9-CM Other Diagnosis Codes are missing or none of them on Table 7.03 or 7.04, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing. If at least one of the ICD-9-CM Other Diagnosis Codes is on Table 7.03 or 7.04, continue processing and proceed to VTE Present at Admission.
	 Check VTE Present at Admission If VTE Present at Admission is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing.
	b. If VTE Present at Admission 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 VTE Present at Admission equals No, continue processing and proceed to Comfort Measures Only.
	 Check Comfort Measures Only a. If Comfort Measures Only is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing.
	 b. If Comfort Measures Only equals 1, 2, or 3, the case will proceed to a Measure Category Assignment of B and will not be in the measure population. Stop processing. c. If Comfort Measures Only equals 4, continue processing and proceed to Clinical Trial.
	 Check Clinical Trial 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 VTE Diagnostic Test.7. Check VTE Diagnostic Testa. If VTE Diagnostic Test is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop
	processing. b. If VTE Diagnostic Test 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 VTE Diagnostic Test equals Yes, continue processing and proceed to VTE Confirmed.
	 Check VTE Confirmed If VTE Confirmed is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing.
	b. If VTE Confirmed equals No, the case will proceed to a Measure Category Assignment of B and will not be in the measure population.
	 9. Check VTE Prophylaxis Status a. A if VTE Prophylaxis status is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop Processing. b. If VTE confirmed equals 3, the care will proceed to a Measure Category Assignment of B and will not be in the
	 measure Population. Stop Processing. c. If VTE Prophylaxis Status equals 1, the case will proceed to a Measure Category Assignment of D and will be in the Measure Population. d. If VTE Confirmed equals 2, the case will proceed to a Measure Category Assignment of E and will be in the Numerator Population. Stop Processing. Attachment 2zv_VTE6.pdf
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0376 Incidence of Potentially Preventable Venous Thromboembolism
disclosure that the Specifications Manual is periodically updated, and that the version being copied or reprinted may not be up-to-date when used unless the copier or printer has verified the version to be up-to-date and affirms that, and 2) users participating in the QIO supported initiatives, the Hospital Inpatient Quality Reporting Program, and Joint Commission accreditation; including performance measures systems; are required to update their software and associated documentation based on the published manual production timelines. Example Acknowledgement: The Specifications Manual for National Hospital Inpatient Quality Measures [Version xx, Month, Year] is the collaborative work of the Centers for Medicare & Medicaid Services and The Joint Commission. Users of the
Specifications Manual for National Hospital Inpatient Quality Measures must update their software and associated documentation based on the published manual production timelines.

	0419 Documentation of Current Medications in the Medical Record		
Steward	Centers for Medicare & Medicaid Services		
Description	Percentage of specified visits for patients aged 18 years and older for which the eligible professional attests to documenting a list of current medications to the best of his/her knowledge and ability. This list must include ALL prescriptions, over-the-counters, herbals, vitamin/mineral/dietary (nutritional) supplements AND must contain the medications' name, dosage, frequency and route		
Туре	Process		
Data Source	Administrative claims, Electronic Clinical Data : Registry Medicare Part B claims data URL NQF 0419 Endorsement Summary 012312 zip file of supporting docuementation sent to H. Bossley & A. Lyzenga via email on 01/23/12 due to path submission error Attachment m130_attachment_partb_detail_line_item_format.pdf		
Level	Clinician : Individual, Population : National		
Setting	Ambulatory Care : Clinician Office, Behavioral Health/Psychiatric : Outpatient, Dialysis Facility, Home Health, Other, Post Acute/Long Term Care Facility : Nursing Home/Skilled Nursing Facility, Post Acute/Long Term Care Facility : Rehabilitation Clinic, Hospital outpatient		
Numerator Statement	ALL MEASURE SPECIFICATION DETAILS REFERENCE THE 2012 PHYSICIAN QUALITY REPORTING SYSTEM MEASURE SPECIFICATION.		
	Eligible professional attests to documenting a list of current medications to the best of his/her knowledge and ability. This list must include ALL prescriptions, over-the counters, herbals, vitamin/mineral/dietary (nutritional) supplements AND must contain the medications' name, dosages, frequency and route NUMERATOR NOTE: By reporting G8427, the eligible professional is attesting the documented current medication information is accurate and complete to the best of his/her knowledge and ability at the time of the patient encounter. This code may also be reported if there is documentation that no medications are currently being taken.		
Numerator Details	Time Window: This measure is to be reported at each visit during the 12 month reporting period. Eligible professionals meet the intent of this measure by making a best effort to document a current, complete and accurate medication list during each encounter. There is		
	For the purposes of calculating performance, the Numerator(A) is defined by providers reporting the clinical quality action was performed. For this measure, performing the clinical quality action is numerator HCPCS G8427. Current Medications with Name, Dosage, Frequency and Route Documented G8427: List of current medications (includes prescription, over-the-counter, herbals, vitamin/mineral/dietary [nutritional] supplements) documented by the provider, including drug name, dosage, frequency and route		
Denominator	ALL MEASURE SPECIFICATION DETAILS REFERENCE THE 2012 PHYSICIAN QUALITY REPORTING SYSTEM		
Statement	MEASURE SPECIFICATION. All visits occurring during the 12 month reporting period for patients aged 18 years and older at the time of the encounter where one or more denominator CPT or HCPCS codes AND any of the 3 numerator HCPCS codes are reported on the claims submission for the encounter. All discussed coding is listed in "2a1.7. Denominator Details" section below.		
Denominator Details	Time Window: All visits occurring during the 12 month reporting period for patients aged 18 years and older at the time of the encounter.		

	0419 Documentation of Current Medications in the Medical Record	
	For the purposes of defining the denominator, the Performance Denominator(PD) is defined by the patient's age, encounter date, denominator CPT or HCPCS codes and the provider reported numerator HCPCS codes described below (G8427, G8430 & G8428).	
	Patients aged greater than or equal to 18 years on date of encounter AND	
	Patient encounter during the reporting period (CPT or HCPCS): 90801, 90802, 90804, 90805, 90806, 90807, 90808, 90809, 90816, 90817, 90818, 90819, 90821, 90822, 90957, 90958, 90959, 90960, 90962, 90965, 90966, 92002, 92004, 92012, 92014, 92541, 92542, 92543, 92544, 92545, 92547, 92548, 92557, 92567, 92568, 92570, 92585, 92588, 92626, 96116, 96150, 96152, 97001, 97002, 97003, 97004, 97802, 97803, 97804, 98960, 98961, 98962, 99201, 99202, 99203, 99204, 99205, 99212, 99213, 99214, 99215, 99324, 99325, 99326, 99327, 99328, 99334, 99335, 99336, 99337, 99341, 99342, 99343, 99344, 99345, 99347, 99348, 99349, 99350, G0101, G0108, G0270, G0402, G0438, G0439	
	AND Patient encounters with the following numerator HCPCS Code G8427, G8430, G8428.	
	Current Medications with Name, Dosage, Frequency and Route Documented G8427: List of current medications (includes prescription, over-the-counter, herbals, vitamin/mineral/dietary [nutritional] supplements) documented by the provider, including drug name, dosage, frequency and route Current Medications with Dosage not Documented, Patient not Eligible G8430: Provider documentation that patient is not eligible for medication assessment Current Medications with Name, Dosage, Frequency, Route not Documented, Reason not Specified G8428: Current medications (includes prescription, over-the-counter, herbals, vitamin/mineral/dietary [nutritional]	
Exclusions	supplements) with drug name, dosage, frequency and route not documented by the provider, reason not specified ALL MEASURE SPECIFICATION DETAILS REFERENCE THE 2012 PHYSICIAN QUALITY REPORTING SYSTEM	
	MEASURE SPECIFICATION. A patient is not eligible or excluded (B) from the performance denominator (PD) if one or more of the following reason(s) exist: 1. Patient refuses to participate 2. Patient is in an urgent or emergent medical situation where time is of the essence and to delay treatment would jeopardize the patient's health status 3. Patient cognitively impaired and no authorized representative(s), caregiver(s), and or other healthcare resources are available	
Exclusion Details	For the purposes of identifying performance exclusions, Denominator Exclusions (B) are defined by providers reporting the exclusion clinical quality action. For this measure, the clinical exclusion code is numerator HCPCS G8430. Current Medications with Dosages not Documented, Patient not Eligible	
	G8430: Provider documentation that patient is not eligible for medication assessment	
	No risk adjustment or risk stratification	
	N/A This measure is not stratified. All eligible patients are subject to the same numerator criteria.	
	Rate/proportion better quality = higher score	
Algorithm	This section provides details and formulas to calculate Performance and Denominator Exclusions. PERFORMANCE CALCULATION To calculate provider performance, complete a fraction with the following measure components: Numerator (A), Performance Denominator (PD) and Denominator Exclusions (B). Numerator (A): Number of patients meeting numerator criteria	
	 Performance Denominator (PD): Number of patients meeting criteria for denominator inclusion Denominator Exclusions (B): Number of patients with valid exclusions The method of performance calculation is determined by the following: 1) identify the patients who meet the eligibility criteria for the denominator (PD) which includes patients who are 18 years and older with encounters during the reporting period with any of denominator CPT or HCPCS codes and numerator HCPCS codes as listed in "2a1.7. Denominator Details". 	
	 identify which of those patients meet the numerator criteria (G8427) (A) for those patients who do not meet the numerator criteria, determine whether an appropriate exclusion applies (G8430) (B) and subtract those patients from the denominator with the following calculation: Numerator (A)/[Performance Denominator 	

	0419 Documentation of Current Medications in the Medical Record
	(PD) - Denominator Exclusions (B)] DENOMINATOR EXCLUSIONS The Exclusion Calculation is: Denominator Exclusions (B)/Performance Denominator (PD) Attachment Calculation for Performance.docx
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	0450 Postoperative Pulmonary Embolism or Deep Vein Thrombosis Rate (PSI 12)	
Steward	Agency for Healthcare Research and Quality	
Description	Percent of discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM codes for deep vein thrombosis or pulmonary embolism in any secondary diagnosis field.	
Туре	Outcome	
Data Source	Administrative claims HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. URL http://www.hcup-us.ahrq.gov/sidoverview.jsp Not applicable URL http://qualityindicators.ahrq.gov/Downloads/Software/WinQI/V43/AHRQ%20QI%20Software%20Instructions,%20WinQI.pdf Not applicable	
Level	Facility	
Setting	Hospital/Acute Care Facility	
Numerator Statement	Discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM codes for deep vein thrombosis or pulmonary embolism in any secondary diagnosis field.	
Numerator Details	Time Window: User may specify the time window; generally one calendar year	
	ICD-9-CM Deep vein thrombosis diagnosis codes: 45111	
	PHLEBITIS AND THROMBOSIS OF FEMORAL VEIN (DEEP) (SUPERFICIAL) 45119	
	PHLEBITIS AND THROMBOPHLEBITIS OF DEEP VESSEL OF LOWER EXTREMITIES – OTHER 4512	
	PHLEBITIS AND THROMBOPHLEBITIS OF LOWER EXTREMITIES UNSPECIFIED* 45181	
	PHLEBITIS AND THROMBOPHLEBITIS OF ILIAC VEIN 4519	
	PHLEBITIS AND THROMBOPHLEBITIS OF OTHER SITES - OF UNSPECIFIED SITE* 45340	
	DVT-EMBLSM LOWER EXT NOS (OCT04) 45341	
	DVT-EMB PROX LOWER EXT (OCT04) 45342	
	DVT-EMB DISTAL LOWER EXT (OCT04) 4538	
	OTHER VENOUS EMBOLISM AND THROMBOSIS OF OTHER SPECIFIED VEINS* 4539	
	OTHER VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED SITE* * Does not apply on or after October 1, 2009. ICD-9-CM Pulmonary embolism diagnosis codes:	
	4151	

	0450 Postoperative Pulmonary Embolism or Deep Vein Thrombosis Rate (PSI 12)	
	PULMONARY EMBOLISM AND INFARCTION	
	41511	
	IATROGENIC PULMONARY EMBOLISM AND INFARCTION	
	41519 Dui moniady empolism and infedertion, other	
	PULMONARY EMBOLISM AND INFARCTION, OTHER	
	All surgical discharges age 18 and older defined by specific DRGs or MS-DRGs and an ICD-9-CM code for an operating room	
Statement	procedure	
Denominator	Time Window: User may specify the time window; generally one calendar year	
Details		
	See Patient Safety Indicators Appendices:	
	- Appendix A – Operating Room Procedure Codes	
	- Appendix D – Surgical Discharge DRGs - Appendix E – Surgical Discharge MS-DRGs	
	Link to PSI appendices:	
	http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/TechnicalSpecifications/PSI%20Appendices.pdf	
Exclusions	Exclude cases:	
EXCIUSIONS	- with principal diagnosis of deep vein thrombosis or pulmonary embolism or secondary diagnosis present on admission	
	- where a procedure for interruption of vena cava is the only operating room procedure	
	- where a procedure for interruption of vena cava occurs before or on the same day as the first operating room procedure	
	- MDC 14 (pregnancy, childbirth, and puerperium)	
	- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal	
	diagnosis (DX1=missing)	
Exclusion	ICD-9-CM Interruption of vena cava procedure code:	
Details	387	
	INTERRUPTION OF VENA CAVA	
Risk	Statistical risk model	
Adjustment	The predicted value for each case is computed using a hierarchical model (logistic regression with hospital random effect) and covariates for gender, age (in 5-year age groups), modified CMS DRG, and the AHRQ Comorbidity category. The reference population used in the regression is the universe of discharges for states that participate in the HCUP State Inpatient Data (SID) for the years 2008, a database consisting of 42 states and approximately 30 million adult discharges. The expected rate is computed as the sum of the predicted value for each case divided by the number of cases for the unit of analysis of interest (i.e., hospital). The risk adjusted rate is computed using indirect standardization as the observed rate divided by the expected rate, multiplied by the reference population rate. Age 18 to 24 Age 25 to 29 Age 30 to 34 Age 45 to 49 Age 45 to 49 Age 50 to 59 Age 65 to 74 Age 75 to 79 Age 80 to 84 Age 85+ MDRG 101 MDRG 102 MDRG 104 MDRG 105 MDRG 105 MDRG 107	

0450 Po	stoperative Pulmonary Embolism or Deep Vein Thrombosis Rate (PSI 12)
MDRG	402
MDRG	502
MDRG	503
MDRG	505
MDRG	507
MDRG	508
MDRG	509
MDRG	511
MDRG	514
MDRG	519
MDRG	601
MDRG	602
MDRG	603
MDRG	604
MDRG	611
MDRG	701
MDRG	705
MDRG MDRG	801
	802
MDRG	804
MDRG	805
MDRG	806
MDRG	807
MDRG	808
MDRG	811
MDRG	815
MDRG	1001
MDRG	1003
MDRG	1006
MDRG	1101
MDRG	1102
MDRG	1103
MDRG	1104
MDRG	1107
MDRG	1109
MDRG	1201
MDRG	1301
MDRG	1302
MDRG	1303
MDRG	1304
MDRG	1707
MDRG	1708
MDRG	1709
MDRG	1801
MDRG	1802
MDRG	2104
MDRG	2406
MDRG	2407
MDRG	2408
MDRG	2501
MDRG	7701
MDRG	7702
MDC	1

	0450 Postoperative Pulmonary Embolism or Deep Vein Thrombosis Rate (PSI 12)	
	MDC 4	
	MDC 5	
	MDC 7	
	MDC 11	
	MDC 12	
	MDC 16	
	MDC 17	
	MDC 18	
	MDC 21	
	MDC 22	
	MDC 24	
	MDC 25	
	TRNSFER Transfer-in	
	COMORB CHF COMORB VALVE	
	COMORB PULMCIRC	
	COMORB POLINCIRC COMORB PERIVASC	
	COMORB HTN_C	
	COMORB PARA	
	COMORB NEURO	
	COMORB CHRNLUNG	
	COMORB DM	
	COMORB HYPOTHY	
	COMORB RENLFAIL	
	COMORB AIDS	
	COMORB LYMPH	
	COMORB METS	
	COMORB TUMOR	
	COMORB OBESE	
	COMORB WGHTLOSS	
	COMORB BLDLOSS	
	COMORB ANEMDEF	
	COMORB ALCOHOL	
	COMORB DRUG	
	COMORB PSYCH	
	COMORB DEPRESS	
	URL http://qualityindicators.ahrq.gov/Downloads/Software/SAS/V43/Risk%20Adjustment%20Tables%20PSI%204.3.pdf Not	
	applicable Not applicable	
	Rate/proportion better quality = lower score	
Algorithm	Each indicator is expressed as a rate, is defined as outcome of interest / population at risk or numerator / denominator. The	
	AHRQ Quality Indicators (AHRQ QI) software performs six 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. For indicators that are not risk-adjusted, this is the reference population	
	rate. 5) Calculate risk-adjusted rate. Use the indirect standardization to account for case-mix. For indicators that are not risk-	
	adjusted, this is the same as the observed rate. 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 URL Not applicable	
	http://qualityindicators.ahrq.gov/Downloads/Resources/Publications/2011/QI%20Empirical%20Methods%2005-03-11.pdf	
Copyright	Not applicable	
copyright		



Patient Safety Measures: Complications Endorsement Maintenance Project

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Measure Number and Title	Description
#0019: Documentation of medication list in the outpatient record	Percentage of patients having a medication list in the medical record.
#0020: Documentation of allergies and adverse reactions in the outpatient record	Percentage of patients having documentation of allergies and adverse reactions in the medical record.
#0021: Annual monitoring for patients on persistent medications	The percentage of members 18 years of age and older who received at least 180 treatment days of ambulatory medication therapy for a select therapeutic agent during the measurement year and at least one therapeutic monitoring event for the therapeutic agent in the measurement year. For each product line, report each of the four rates separately and as a total rate. • Annual monitoring for members on angiotensin converting enzyme (ACE) inhibitors or angiotensin receptor blockers (ARB) • Annual monitoring for members on digoxin • Annual monitoring for members on diuretics • Annual monitoring for members on anticonvulsants • Total rate (the sum of the four numerators divided by the sum of the four denominators)
#0022: Use of High Risk Medications in the Elderly	 a: Percentage of Medicare members 65 years of age and older who received at least one high-risk medication. b: Percentage of Medicare members 65 years of age and older who received at least two different high-risk medications. For both rates, a lower rate represents better performance.
#0035: Fall Risk Management	 a) Discussing Fall Risk. The percentage of Medicare members 75 years of age and older, or 65–74 years of age with balance or walking problems or a fall in the past 12 months, who were seen by a practitioner in the past 12 months and who discussed falls or problems with balance or walking with their current practitioner. b) Managing Fall Risk. The percentage of Medicare members 65 years of age and older who had a fall or had problems with balance or walking in the past 12 months, who were seen by a practitioner in the past 12 months.
#0097: Medication Reconciliation	Percentage of patients aged 65 years and older discharged from any inpatient facility (e.g. hospital, skilled nursing facility, or rehabilitation facility) and seen within 60 days following discharge in the office by the physician providing on-going care who had a reconciliation of the discharge medications with the current medication list in the medical record documented.
#0101: Falls: Screening for Future Fall Risk	Percentage of patients aged 65 years and older who were screened for fall risk (2 or more falls in the past year or any fall with injury in the past year) at least once within 12 months

Measure Number and Title	Description
#0130: Risk-Adjusted Deep Sternal Wound Infection Rate	Percent of patients aged 18 years and older undergoing isolated CABG who, within 30 days postoperatively, develop deep sternal wound infection involving muscle, bone, and/or mediastinum requiring operative intervention
#0136: Heart Failure (HF): Detailed discharge instructions	Percentage of heart failure patients discharged home with written instructions or educational material given to patient or caregiver at discharge or during the hospital stay addressing all of the following: activity level, diet, discharge medications, follow-up appointment, weight monitoring, and what to do if symptoms worsen.
#0138: Urinary catheter- associated urinary tract infection for intensive care unit (ICU) patients	Percentage of intensive care unit patients with urinary catheter- associated urinary tract infections
#0139: Central line catheter-associated blood stream infection rate for ICU and high-risk nursery (HRN) patients	Percentage of ICU and high-risk nursery patients, who over a certain amount of days acquired a central line catheter-associated blood stream infections over a specified amount of line-days
#0140: Ventilator- associated pneumonia for ICU and high-risk nursery (HRN) patients	Percentage of ICU and HRN patients who over a certain amoint of days have ventilator-associated pneumonia
#0141: Patient Fall Rate	All documented falls, with or without injury, experienced by patients on eligible unit types in a calendar quarter. Reported as Total Falls per 1,000 Patient Days and Unassisted Falls per 1000 Patient Days. (Total number of falls / Patient days) X 1000 Measure focus is safety. Target population is adult acute care inpatient and adult rehabilitation patients.
#0181: Increase in number of pressure ulcers	Percentage of patients who had an increase in the number of pressure ulcers
#0200: Death among surgical inpatients with treatable serious complications (failure to rescue)	Percentage of surgical inpatients with complications of care whose status is death
#0201: Pressure ulcer prevalence	The total number of patients that have hospital-acquired (nosocomial) stage II or greater pressure ulcers on the day of the prevalence study.
#0202: Falls with injury	All documented patient falls with an injury level of minor or greater on eligible unit types in a calendar quarter. Reported as Injury falls per 1000 Patient Days. (Total number of injury falls / Patient days) X 1000 Measure focus is safety. Target population is adult acute care inpatient and adult rehabilitation patients.

Measure Number and Title	Description
#0203: Restraint	Total number of patients that have vest and/or limb restraint (upper or
prevalence (vest and limb	lower body or both) on the day of the prevalence study.
only)	
#0239: Venous	Percentage of patients aged 18 years and older undergoing procedures
Thromboembolism (VTE)	for which VTE prophylaxis is indicated in all patients, who had an order for
Prophylaxis	Low Molecular Weight Heparin (LMWH), Low-Dose Unfractionated
	Heparin (LDUH), adjusted-dose warfarin, fondaparinux or mechanical
	prophylaxis to be given within 24 hours prior to incision time or within 24
	hours after surgery end time.
#0263: Patient Burn	Percentage of ASC admissions experiencing a burn prior to discharge
#0266: Patient Fall	Percentage of ASC admissions experiencing a fall in the ASC.
#0267: Wrong Site, Wrong	Percentage of ASC admissions experiencing a wrong site, wrong side,
Side, Wrong Patient, Wrong	wrong patient, wrong procedure, or wrong implant event.
Procedure, Wrong Implant	
#0281: Urinary infections	This measure is used to assess the number of admissions for urinary tract
(PQI 12)	infection per 100,000 population. See Notes.
#0293: Medication	Percentage of patients transferred to another acute hospitals whose
Information	medical record documentation indicated that medication information was
	communicated to the receiving hospital within 60 minutes of departure
#0298: Central Line Bundle	Percentage of intensive care patients with central lines for whom all
Compliance	elements of the central line bundle are documented and in place.
	The central line bundle elements include:
	•Hand hygiene ,
	Maximal barrier precautions upon insertion
	•Chlorhexidine skin antisepsis
	•Optimal catheter site selection, with subclavian vein as the preferred site
	for non-tunneled catheters in patients 18 years and older
	•Daily review of line necessity with prompt removal of unnecessary lines
#0299: Surgical Site	Percentage of surgical site infections occurring within thirty days after
Infection Rate	the operative procedure if no implant is left in place or with one year if an
	implant is in place in patients who had an NHSN operative procedure
	performed during a specified time period and the infection appears to be
#0201. Currer	related to the operative procedure.
#0301: Surgery patients	Percentage of surgery patients with surgical hair site removal with
with appropriate hair	clippers or depilatory or no surgical site hair removal.
removal	

Measure Number and Title	Description
#0302: Ventilator Bundle	Percentage of intensive care unit patients on mechanical ventilation at time of survey for whom all four elements of the ventilator bundle are documented and in place. The ventilator bundle elements are: •Head of bed (HOB) elevation 30 degrees or greater (unless medically contraindicated); noted on 2 different shifts within a 24 hour period •Daily ""sedation interruption" and daily assessment of readiness to extubate; process includes interrupting sedation until patient follow commands and patient is assessed for discontinuation of mechanical ventilation; Parameters of discontinuation include: resolution of reason for intubation; inspired oxygen content roughly 40%; assessment of patients ability to defend airway after extubation due to heavy sedation; minute ventilation less than equal to 15 liters/minute; and respiratory rate/tidal volume less than or equal to 105/min/L(RR/TV< 105) •SUD (peptic ulcer disease) prophylaxis •DVT (deep venous thrombosis) prophylaxis
#0303: Late sepsis or meningitis in neonates (risk-adjusted)	Percentage of infants born at the hospital, whose birth weight is between 401 and 1500 grams OR whose gestational age is between 22 weeks 0 days and 29 weeks 6 days with late sepsis or meningitis with one or more of the following criteria: Bacterial Pathogen, Coagulase Negative Staphylococcus, Fungal Infection
#0304: Late sepsis or meningitis in Very Low Birth Weight (VLBW) neonates (risk-adjusted)	Percentage of infants born at the hospital, whose birth weight is between 401 and 1500 grams OR whose gestational age is between 22 weeks 0 days and 29 weeks 6 days, who have late sepsis or meningitis, with one or more of the following criteria: Bacterial Pathogen, Coagulase Negative Staphylococcus, Fungal Infection
#0329: All-Cause Readmission Index (risk adjusted)	Overall inpatient 30-day hospital readmission rate.
#0337: Pressure Ulcer Rate (PDI 2)	Percent of discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code of pressure ulcer in any secondary diagnosis field and ICD-9-CM code of pressure ulcer stage III or IV (or unstagable) in any secondary diagnosis field
#0330: Hospital 30-day, all- cause, risk-standardized readmission rate following heart failure hospitalization for patients 18 and older	The measure estimates a hospital 30-day risk-standardized readmission rate (RSRR), defined as readmission for any cause within 30 days after the date of discharge of the index admission for patients 18 and older discharged from the hospital with a principal diagnosis of heart failure (HF).
#0335: PICU Unplanned Readmission Rate	The total number of patients requiring unscheduled readmission to the ICU within 24 hours of discharge or transfer.
#0336: Review of Unplanned PICU Readmissions	Periodic clinical review of unplanned readmissions to the PICU that occurred within 24 hours of discharge or transfer from the PICU.
#0344: Accidental Puncture or Laceration Rate (PDI 1)	Percent of discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code denoting accidental cut, puncture, perforation, or laceration during a procedure in any secondary

	diagnosis field.
Measure Number and Title	Description
#0345: Accidental Puncture	Percent of discharges among cases meeting the inclusion and exclusion
or Laceration Rate (PSI 15)	rules for the denominator with ICD-9-CM code denoting accidental cut,
	puncture, perforation, or laceration during a procedure in any secondary
	diagnosis field.
#0346: latrogenic	Percent of discharges with ICD-9-CM code for iatrogenic pneumothorax in
Pneumothorax Rate (PSI 6)	any secondary diagnosis field among cases meeting the inclusion and
	exclusion rules for the denominator
#0347: Death Rate in Low-	Percent of discharges with disposition of "deceased" (DISP=20) among
Mortality Diagnosis Related Groups (PSI 2)	cases meeting the inclusion and exclusion rules for the denominator
#0348: latrogenic	Percent of discharges among cases meeting the inclusion and exclusion
Pneumothorax Rate (PDI 5)	rules for the denominator with ICD-9-CM code of iatrogenic
	pneumothorax in any secondary diagnosis field
#0349: Transfusion	The count of medical and surgical discharges for patients age greater than
Reaction (PSI 16)	or equal to 18 or in MDC 14 with ICD-9-CM code for transfusion reaction
	in any secondary diagnosis field.
#0350: Transfusion	The count of medical and surgical discharges for patients age less than 18
Reaction (PDI 13)	and not in MDC 14 with ICD-9-CM code for transfusion reaction in any
	secondary diagnosis field.
#351: Death among	Percentage of cases having developed specified complications of care
surgical inpatients with	with an in-hospital death.
serious, treatable	
complications (PSI 4)	
#0352: Failure to Rescue In-	Percentage of patients who died with a complications in the hospital.
Hospital Mortality (risk	
adjusted)	
#0353: Failure to Rescue	Percentage of patients who died with a complication within 30 days from
30-Day Mortality (risk	admission.
adjusted)	Count of discharges with foreign body left in during procedure in medical
#0362: Foreign Body left	Count of discharges with foreign body left in during procedure in medical
after procedure (PDI 3)	and surgical discharges among patients less than 18 years and not MDC 14 (pregnancy, childbirth, and puerperium)
#0363: Foreign Body Left	Count of discharges with foreign body left in during procedure in medical
During Procedure (PSI 5)	and surgical discharges among patients 18 years and older or MDC 14
	(pregnancy, childbirth, and puerperium)
#0367: Post operative	Percentage of abdominopelvic surgery cases with reclosure of
Wound Dehiscence (PDI 11)	postoperative disruption of abdominal wall.
#0368: Post operative	Percentage of abdominopelvic surgery cases with reclosure of
Wound Dehiscence (PSI 14)	postoperative disruption of abdominal wall.

Measure Number and Title	Description
#0371: Venous	This measure assesses the number of patients who received venous
Thromboembolism	thromboembolism (VTE) prophylaxis or have documentation why no VTE
Prophylaxis	prophylaxis was given the day of or the day after hospital admission or
	surgery end date for surgeries that start the day of or the day after
	hospital admission. This measure is part of a set of six nationally
	implemented prevention and treatment measures that address VTE (VTE-
	2: ICU VTE Prophylaxis, VTE-3: VTE Patients with Anticoagulation Overlap
	Therapy, VTE-4: VTE Patients Receiving UFH with Dosages/Platelet Count
	Monitoring, VTE-5: VTE Warfarin Therapy Discharge Instructions and VTE-
	6: Incidence of Potentially-Preventable VTE) that are used in The Joint
	Commission's accreditation process.
#0372: Intensive Care Unit	This measure assesses the number of patients who received venous
Venous Thromboembolism	thromboembolism (VTE) prophylaxis or have documentation why no VTE
Prophylaxis	prophylaxis was given the day of or the day after the initial admission (or
	transfer) to the Intensive Care Unit (ICU) or surgery end date for surgeries
	that start the day of or the day after ICU admission (or transfer). This
	measure is part of a set of six prevention and treatment measures that
	address VTE (VTE-1: VTE Prophylaxis, VTE-3: VTE Patients with
	Anticoagulation Overlap Therapy, VTE-4: VTE Patients Receiving UFH with
	Dosages/Platelet Count Monitoring by Protocol, VTE-5: VTE Warfarin
	Therapy Discharge Instructions and VTE-6: VTE Incidence of Potentially-
	Preventable VTE).
#0373: Venous	This measure assesses the number of patients diagnosed with confirmed
Thromboembolism Patients	VTE who received an overlap of Parenteral (intravenous [IV] or
with Anticoagulant Overlap	subcutaneous [subcu]) anticoagulation and warfarin therapy. For patients
Therapy	who received less than five days of overlap therapy, they should be
	discharged on both medications and have a Reason for Discontinuation of
	Overlap Therapy. Overlap therapy should be administered for at least five days with an international normalized ratio (INP) greater than or equal to
	days with an international normalized ratio (INR) greater than or equal to 2 prior to discontinuation of the parenteral anticoagulation therapy, or
	INR less than 2 but discharged on both medications or have a Reason for
	Discontinuation of Overlap Therapy. This measure is part of a set of six
	prevention and treatment measures that address VTE (VTE-1: VTE
	Prophylaxis, VTE-2: ICU VTE Prophylaxis, VTE-4: VTE Patients Receiving
	UFH with Dosages/Platelet Count Monitoring, VTE-5: VTE Warfarin
	Therapy Discharge Instructions and VTE-6: Incidence of Potentially-
	Preventable VTE).
#0374: Venous	This measure assesses the number of patients diagnosed with confirmed
Thromboembolism Patients	venous thromboembolism (VTE) who received intravenous (IV)
Recieving Unfractionated	unfractionated heparin (UFH) therapy dosages AND had their platelet
Heparin with	counts monitored using defined parameters such as a nomogram or
Dosages/Platelet Count	protocol. This measure is part of a set of six prevention and treatment
Monitoring by Protocol or	measures that address VTE (VTE-1: VTE Prophylaxis, VTE-2: ICU VTE
Nomogram	Prophylaxis, VTE-3: VTE Patients with Anticoagulation Overlap Therapy,
	VTE-5: VTE Warfarin Therapy Discharge Instructions and VTE-6: Incidence
	of Potentially-Preventable VTE).
	C-6

NQF-endorsed® Safety Measures

Measure Number and Title	Description
#0375: Venous	This measure assesses the number of patients diagnosed with confirmed
Thrmoboembolism	VTE that
Warfarin Therapy Discharge	are discharged on warfarin to home, home with home health or home
Instructions	hospice with written discharge instructions that address all four criteria:
	compliance issues, dietary advice, follow-up monitoring, and information
	about the potential for adverse drug reactions/interactions. This measure
	is part of a set of six prevention and treatment measures that address VTE
	(VTE-1: VTE Prophylaxis, VTE-2: ICU VTE Prophylaxis, VTE-3: VTE Patients
	with Anticoagulation Overlap Therapy, VTE-4: VTE Patients Receiving UFH
	with Dosages/Platelet Count Monitoring by Protocol and VTE-6: Incidence
	of Potentially-Preventable VTE).
#0376: Incidence of	This measure assesses the number of patients with confirmed venous
Potentially Preventable	thromboembolism (VTE) during hospitalization (not present at admission)
Venous Thromboembolism	who did not receive VTE prophylaxis between hospital admission and the
	day before the VTE diagnostic testing order date. This measure is part of a
	set of six prevention and treatment measures that address VTE (VTE-1:
	VTE Prophylaxis, VTE-2: ICU VTE Prophylaxis, VTE-3: VTE Patients with
	Anticoagulation Overlap Therapy, VTE-4: VTE Patients Receiving UFH with
	Dosages/Platelet Count Monitoring by Protocol, and VTE-5: VTE Warfarin
	Therapy Discharge Instructions).
#0382: Oncology:	Percentage of patients with a diagnosis of cancer receiving 3D conformal
Radiation Dose Limits to	radiation therapy with documentation in medical record that normal
Normal Tissues	tissue dose constraints were established within five treatment days for a
	minimum of one tissue
#0389: Prostate Cancer:	Percentage of patients with a diagnosis of prostate cancer, at low risk of
Avoidance of Overuse	recurrence, receiving interstitial prostate brachytherapy, OR external
Measure – Isotope Bone	beam radiotherapy to the prostate, OR radical prostatectomy, OR
Scan for Staging Low-Risk	cryotherapy who did not have a bone scan performed at any time since
Patients	diagnosis of prostate cancer
#0419: Documentation of	Percentage of patients aged 18 years and older with a list of current
Current Medications in the	medications (includes prescription, over-the-counter, herbals,
Medical Record	vitamin/mineral/dietary [nutritional] supplements) documented by the
	provider, including drug name, dosage, frequency and route
#0450: Postoperative	Percent of discharges among cases meeting the inclusion and exclusion
Pulmonary Embolism or	rules for the denominator with ICD-9-CM codes for deep vein thrombosis
Deep Vein Thrombosis Rate	or pulmonary embolism in any secondary diagnosis field.
(PSI 12) #0464: Anesthesiology and	Percentage of patients who undergo CVC insertion for whom CVC was
Critical Care: Prevention of	inserted with all elements of maximal sterile barrier technique (cap AND
Catheter-Related	mask AND sterile gown AND sterile gloves AND a large sterile sheet AND
Bloodstream Infections	hand hygiene AND 2% chlorhexidine for cutaneous antisepsis) followed
(CRBSI) – Central Venous	nana nygiene And 270 chiomexiane for cataneous antisepsis/ followed
Catheter (CVC) Insertion	
Protocol	
	1

Measure Number and Title	Description
#0478: Nosocomial Blood Stream Infections in Neonates (NQI #3)	Percentage of qualifying neonates with selected bacterial blood stream infections
#0500: Severe Sepsis and Septic Shock: Management Bundle	Initial steps in the management of the patient presenting with infection (severe sepsis or septic shock)
#0501: Confirmation of Endotracheal Tube Placement	Any time an endotracheal tube is placed into an airway in the Emergency Department or an endotraceal tube is placed by an outside provider and that patient arrives already intubated (EMS or hospital transfer) or when an airway is placed after patients arrives to the ED there should be some method attempted to confirm ETT placement
#0503: Anticoagulation for acute pulmonary embolus patients	Number of acute embolus patients who have orders for anticoagulation (heparin or low-molecular weight heparin) for pulmonary embolus while in the ED.
#0504: Pediatric Weight Documented in Kilograms	Percent of emergency department patients < 18 years of age with a current weight in kilograms documented in the ED record
#505: Thirty-day all-cause risk standardized readmission rate following acute myocardial infarction (AMI) hospitalization.	Hospital-specific 30-day all-cause risk standardized readmission rate following hospitalization for AMI among Medicare beneficiaries aged 65 years or older at the time of index hospitalization.
#506: Thirty-day all-cause risk standardized readmission rate following pneumonia hospitalization.	Hospital-specific 30-day all-cause risk standardized readmission rate following hospitalization for pneumonia among Medicare beneficiaries aged 65 years or older at the time of index hospitalization
#0510: Exposure time reported for procedures using fluoroscopy	Percentage of final reports for procedures using fluoroscopy that include documentation of radiation exposure or exposure time
#0515: Ambulatory surgery patients with appropriate method of hair removal	Percentage of ASC admissions with appropriate surgical site hair removal.
#0520: Drug Education on All Medications Provided to Patient/Caregiver During Episode	Percent of patients or caregivers who were instructed during their episode of home health care on how to monitor the effectiveness of drug therapy, how to recognize potential adverse effects, and how and when to report problems
#0523: Pain Assessment Conducted	Percentage of home health episodes of care in which the patient was assessed for pain, using a standardized pain assessment tool, at start/resumption of care.
#0524: Pain Interventions Implemented During Short Term Episodes Of Care	Percentage of short term home health episodes of care during which pain interventions were included in the physician-ordered plan of care and implemented.
#0526: Timely Initiation of Care	Percent of patients with timely start or resumption of home health care
#0530: Mortality for Selected Conditions	A composite measure of in-hospital mortality indicators for selected conditions.

Measure Number and Title	Description
#0531: Patient Safety for	A composite measure of potentially preventable adverse events for
Selected Indicators	selected indicators
#0532: Pediatric Patient	A composite measure of potentially preventable adverse events for
Safety for Selected	selected pediatric indicators
Indicators	
#0537: Multifactor Fall Risk	Percentage of home health episodes of care in which patients 65 and
Assessment Conducted in	older had a multi-factor fall risk assessment at start/resumption of care.
Patients 65 and Older	
#0538: Pressure Ulcer	Percentage of home health episodes of care in which the physician-
Prevention Included in Plan	ordered plan of care includes interventions to prevent pressure ulcers.
of Care	
#0539: Pressure Ulcer	Percentage of short term home health episodes of care during which
Prevention Implemented	interventions to prevent pressure ulcers were included in the physician-
during Short Term Episodes	ordered plan of care and implemented.
of Care	
#0540: Pressure Ulcer Risk	Percentage of home health episodes of care in which the patient was
Assessment Conducted	assessed for risk of developing pressure ulcers at start/resumption of
	care.
#0541: Proportion of Days	The percentage of patients 18 years and older who met the proportion of
Covered (PDC): 5 Rates by	days covered (PDC) threshold of 80% during the measurement year. A
Therapeutic Category	performance rate is calculated seperately for the following medication
	categories: Beta-Blockers (BB), Angiotensin-Converting Enzyme
	Inhibitor/Angiotensin-Receptor Blocker (ACEI/ARB), Calcium-Channel
	Blockers (CCB), Diabetes Medication, Statins.
	The full detailed measure specifications have also been submitted as a
	separate attachment.
#0542: Adherence to	Medication Possession Ratio (MPR) for chronic medications for individuals
Chronic Medications	over 18 years of age
#0553: Care for Older	Percentage of adults 65 years and older who had a medication review
Adults – Medication Review	
(COA)	
#0554: Medication	Percentage of discharges from January 1 to December 1 of the
Reconciliation Post-	measurement year for patients 65 years of age and older for whom
Discharge (MRP)	medications were reconciled on or within 30 days of discharge.
#0555: Monthly INR	Average percentage of monthly intervals in which Part D beneficiaries
Monitoring for	with claims for warfarin do not receive an INR test during the
Beneficiaries on Warfarin	measurement period
#0556: INR for Beneficiaries	Percentage of episodes with an INR test performed 3 to 7 days after a
Taking Warfarin and	newly-started interacting anti-infective medication for Part D
Interacting Anti-Infective	beneficiaries receiving warfarin
Medications	

Measure Number and Title	Description
#0564: Complications within 30 Days Following Cataract Surgery Requiring Additional Surgical Procedures	Percentage of patients aged 18 years and older with a diagnosis of uncomplicated cataract who had cataract surgery and had any of a specified list of surgical procedures in the 30 days following cataract surgery which would indicate the occurrence of any of the following major complications: retained nuclear fragments, endophthalmitis, dislocated or wrong power IOL, retinal detachment, or wound dehiscence.
#0581: Deep Vein Thrombosis Anticoagulation >= 3 Months	This measure identifies patients with deep vein thrombosis (DVT) on anticoagulation for at least 3 months after the diagnosis
#0582: Diabetes and Pregnancy: Avoidance of Oral Hypoglycemic Agents	This measure identifies pregnant women with diabetes who are not taking an oral hypoglycemic agent.
#0586: Warfarin_PT/ INR Test	This measure identifies the percentage of patients taking warfarin during the measurement year who had at least one PT/INR test within 30 days after the first warfarin prescription in the measurement year
#0593: Pulmonary Embolism Anticoagulation >= 3 Months	This measure identifies patients with pulmonary embolism (PE) on anticoagulation for at least 3 months after the diagnosis.
#0612: Warfarin - INR Monitoring	Percentage of patients taking warfarin with PT/INR monitoring
#0646: Reconciled Medication List Received by Discharged Patients (Inpatient Discharges to Home/Self Care or Any Other Site of Care)	Percentage of patients, regardless of age, discharged from an inpatient facility to home or any other site of care, or their caregiver(s), who received a reconciled medication list at the time of discharge including, at a minimum, medications in the specified categories
#0655: Otitis Media with Effusion: Antihistamines or decongestants – Avoidance of inappropriate use	Percentage of patients aged 2 months through 12 years with a diagnosis of OME were not prescribed or recommended to receive either antihistamines or decongestants
#0656: Otitis Media with Effusion: Systemic corticosteroids – Avoidance of inappropriate use	Percentage of patients aged 2 months through 12 years with a diagnosis of OME who were not prescribed systemic corticosteroids
#0657: Otitis Media with Effusion: Systemic antimicrobials – Avoidance of inappropriate use	Percentage of patients aged 2 months through 12 years with a diagnosis of OME who were not prescribed systemic antimicrobials

Measure Number and Title	Description
#0667: Pulmonary CT	Percent of patients undergoing CT pulmonary angiogram for the
Imaging for Patients at Low	evaluation of possible PE who are at low-risk for PE consistent with
Risk for Pulmonary	guidelines(1) prior to CT imaging. (1) Torbicki A, Perrier A, Konstantinides
Embolism	S, et al. Guidelines on the diagnosis and management of acute pulmonary
	embolism: the Task Force for the Diagnosis and Management of Acute
	Pulmonary Embolism of the European Society of Cardiology (ESC). Eur
	Heart J. 2008 Sep;29(18):2276-315
#0674: Percent of	This measure is based on data from all non-admission MDS 3.0
Residents Experiencing One	assessments of long-stay nursing facility residents which may be annual,
or More Falls with Major	quarterly, significant change, significant correction, or discharge
Injury (Long Stay)	assessment. It reports the percent of residents who experienced one or
	more falls with major injury (e.g., bone fractures, joint dislocations, closed
	head injuries with altered consciousness, and subdural hematoma) in the
	last year (12-month period). The measure is based on MDS 3.0 item
	J1900C, which indicates whether any falls that occurred were associated
	with major injury.
#0675: The Percentage of	This measure is based on data from the MDS 3.0 assessment of short-stay
Residents on a Scheduled	nursing facility residents and reports the percentage of those short-stay
Pain Medication Regimen	residents who can self-report and who are on a scheduled pain
on Admission Who Self-	medication regimen at admission (5-day PPS MDS assessment) and who
Report a Decrease in Pain	report lower levels of pain on their discharge MDS 3.0 assessment or their
Intensity or Frequency	14-day PPS MDS assessment (whichever comes first) when compared
(Short-stay)	with the 5-day PPS MDS assessment.
#0676: Percent of	This measure updates CMS' current QM on pain severity for short-stay
Residents Who Self-Report	residents (people who are discharged within 100 days of admission). This
Moderate to Severe Pain	updated measure is based on data from the Minimum Data Set (MDS 3.0)
(Short-Stay)	14-day PPS assessments. This measure reports the percentage of short-
	stay residents with a 14-day PPS assessment during a selected quarter (3
	months) who have reported almost constant or frequent pain and at least
	one episode of moderate to severe pain, or any severe or horrible pain, in
	the 5 days prior to the 14-day PPS assessment.
#0677: Percent of	The proposed long-stay pain measure reports the percent of long-stay
Residents Who Self-Report	residents of all ages in a nursing facility who reported almost constant or
Moderate to Severe Pain	frequent pain and at least one episode of moderate to severe pain or any
(Long-Stay)	severe or horrible pain in the 5 days prior to the MDS assessment (which
	may be an annual, quarterly, significant change or significant correction
	MDS) during the selected quarter.
	Long-stay residents are those who have had at least 100 days of nursing
	facility care. This measure is restricted to the long stay population
	because a separate measure has been submitted for the short-stay
	residents (those who are discharged within 100 days of admission).

Measure Number and Title	Description
#0678: Percent of Residents with Pressure Ulcers That Are New or Worsened (Short-Stay)	This measure updates CMS' current QM pressure ulcer measure which currently includes Stage 1 ulcers. The measure is based on data from the MDS 3.0 assessment of short-stay nursing facility residents and reports the percentage of residents who have Stage 2-4 pressure ulcers that are new or have worsened. The measure is calculated by comparing the Stage 2-4 pressure ulcer items on the discharge assessment and the previous MDS assessment (which may be an OBRA admission or 5-day PPS assessment). The quality measure is restricted to the short-stay population defined as those who are discharged within 100 days of admission. The quality measure does not include the long-stay residents who have been in the nursing facility for longer than 100 days. A separate measure has been submitted for them.
#0679: Percent of High Risk Residents with Pressure Ulcers (Long Stay)	CMS currently has this measure in their QMs but it is based on data from MDS 2.0 assessments and it includes Stage 1 ulcers. This proposed measure will be based on data from MDS 3.0 assessments of long-stay nursing facility residents and will exclude Stage 1 ulcers from the definition. The measure reports the percentage of all long-stay residents in a nursing facility with an annual, quarterly, significant change or significant correction MDS assessment during the selected quarter (3-month period) who were identified as high risk and who have one or more Stage 2-4 pressure ulcer(s). High risk populations are those who are comatose, or impaired in bed mobility or transfer, or suffering from malnutrition. Long-stay residents are those who have been in nursing facility care for more than 100 days. This measure is restricted to the population that has long-term needs; a separate pressure ulcer measure is being submitted for short-stay populations. These are defined as having a stay that ends with a discharge within the first 100 days.
#0687: Percent of Residents Who Were Physically Restrained (Long Stay)	The measure is based on data from the MDS 3.0 assessment of long-stay nursing facility residents and reports the percentage of all long-stay residents who were physically restrained. The measure reports the percentage of all long-stay residents in nursing facilities with an annual, quarterly, significant change, or significant correction MDS 3.0 assessment during the selected quarter (3-month period) who were physically restrained daily during the 7 days prior to the MDS assessment (which may be annual, quarterly, significant change, or significant correction MDS 3.0 assessment).

Measure Number and Title	Description
#0689: Percent of	This measure updates CMS' current QM on patients who lose too much
Residents Who Lose Too	weight. This measure captures the percentage of long-stay residents who
Much Weight (Long-Stay)	had a weight loss of 5% or more in the last month or 10% or more in the
	last 6 months who were not on a physician-prescribed weight-loss
	regimen noted on an MDS assessment (which may be an annual,
	quarterly, significant change or significant correction MDS assessment)
	during the selected quarter (3-month period).
	In order to address seasonal variation, the proposed measure uses a two-
	quarter average for the facility. Long-stay residents are those who have
	been in nursing care at least 100 days. The measure is restricted to this
	population, which has long-term care needs, rather than the short-stay
	population who are discharged within 100 days of admission.
#0695: Hospital 30-Day	This measure estimates hospital risk-standardized 30-day readmission
Risk-Standardized	rates following PCI in patients at least 65 years of age. As PCI patients may
Readmission Rates	be readmitted electively for staged revascularization procedures, we will
following Percutaneous	exclude such elective readmissions from the measure. The measure uses
Coronary Intervention (PCI)	clinical data available in the National Cardiovascular Disease Registry
	(NCDR) CathPCI Registry for risk adjustment that has been linked with the
	administrative claims data used to identify readmissions.

Measure Number and Title	Description
	and emergency room visits during the 30-day post-discharge period (tab labeled CIP_PAC_Readmission). The information is based on a two-year national commercially insured population (CIP) claims database. The database had 4.7 million covered lives and \$95 billion in "allowed amounts" for claims costs. The database was an administrative claims database with medical as well as pharmacy claims. The two tabs demonstrate the most common PACs that occurred in patients hospitalized with AMI.

Measure Number and Title	Description
	types of PACs during the index hospitalization (tab labeled CIP_Index PAC_Stays) and for readmissions and emergency room visits during the 30-day post-discharge period (tab labeled CIP_PAC_Readmission). The information is based on a two-year national commercially insured population (CIP) claims database. The database had 4.7 million covered lives and \$95 billion in "allowed amounts" for claims costs. The database was an administrative claims database with medical as well as pharmacy claims. The two tabs demonstrate the most common PACs that occurred in patients hospitalized with pneumonia.

Measure Number and Title	Description
Measure Number and Title #0709: Proportion of patients with a chronic condition that have a potentially avoidable complication during a calendar year.	DescriptionPercent of adult population aged 18 – 65 years who were identified as having at least one of the following six chronic conditions: Diabetes Mellitus (DM), Congestive Heart Failure (CHF), Coronary Artery Disease (COD) or Asthma, were followed for one-year, and had one or more potentially avoidable complications (PACs). A Potentially Avoidable Complication is any event that negatively impacts the patient and is potentially controllable by the physicians and hospitals that manage and co-manage the patient. Generally, any hospitalization related to the patient's core chronic condition or any co-morbidity is considered a potentially avoidable complication, unless that hospitalization is considered to be a typical service for a patient with that condition. Additional PACs that can occur during the calendar year include those related to emergency room visits, as well as other professional or ancillary services tied to a potentially avoidable complication. (Please reference attached document labeled NQF_Chronic_Care_PACs_Risk_Adjustment_2.9.10.xls). We define PAC hospitalizations and PAC professional and other services as one of three types: (A) PAC-related Hospitalizations:

Measure Number and Title	Description
	 (3) PACs suggesting Patient Safety Failures: Emergency room visits, professional and ancillary services for major infections, deep vein thrombosis, adverse drug events, and other patient safety-related events are considered PACs. The summary tab in the enclosed workbook labeled NQF_Chronic_Care_PACs_Risk_Adjustment_2.9.10.xls gives the overview of the frequency and costs associated with each of these types of PACs for each of the six chronic conditions. Detailed drill-down tabs (e.g. DM IP Stay and DM Prof + OP fac) are also provided in the same workbook for each of the six chronic conditions to highlight high-frequency PACs. The information is based on a two-year, national, commercially insured population (CIP), claims database. The database had 4.7 million covered lives and \$95 billion in "allowed amounts" for claims costs. The database was an administrative claims database with medical as well as pharmacy claims. It is important to note that while the overall frequency of PAC hospitalizations are low (for all chronic care conditions summed together, PAC frequency was 6.32% of all PAC occurrences), they amount to over 58% of the PAC medical costs.

Measure Number and Title	Description
#0715: Standardized adverse event ratio for children and adults undergoing cardiac catheterization for congenital heart disease	Ratio of observed to expected clinically important preventable and possibly preventable adverse events, risk-adjusted
#0739: Radiation Dose of Computed Tomography (CT)	The measure has two components. Part A is an outcome measure; Part B is a process measure. Both would work together towards improving quality and allowing hospitals and imaging facilities to conduct ongoing quality improvement. Part A: radiation dose associated with computed tomography (CT) examinations of the head, neck, chest, abdomen/pelvis and lumbar spine, obtained in children and adults. Part B: The proportion of CT examinations where a measure of dose is included in the final medical report
#0740: Participation in a Systematic National Dose Index Registry	Participation in a multi-center, standardized data collection and feedback program that will establish national dose index benchmarks for designated examinations. The registry will eventually provide a comparison of practice or facility dose indices such as CTDIvol and DLP for specified examinations relative to national and regional benchmarks. Data is captured electronically from the images of CT examinations using Digital Imaging and Communications in Medicine (DICOM) standards and the Integrating the Healthcare Enterprise (IHE) Radiation Exposure Monitoring (REM) profile.
#0751: Risk Adjusted Urinary Tract Infection Outcome Measure After Surgery	Risk adjusted, case mix adjusted urinary tract infection outcome measure of adults 18+ years after surgical procedure.

Measure Number and Title	Description
#0752: National Healthcare Safety Network (NHSN) Catheter-associated Urinary Tract Infection (CAUTI) Outcome Measure	 Standardized Infection Ratio (SIR) of healthcare-associated, catheter-associated urinary tract infections (CAUTI) will be calculated among patients in the following patient care locations: Intensive Care Units (ICUs) (excluding patients in neonatal ICUs [NICUs: Level II/III and Level III nurseries]) Specialty Care Areas (SCAs) - adult and pediatric: long term acute care, bone marrow transplant, acute dialysis, hematology/oncology, and solid organ transplant locations other inpatient locations (excluding Level I and Level II nurseries). Data from these locations are reported from acute care general hospitals (including specialty hospitals), freestanding long term acute care hospitals, rehabilitation hospitals, and behavioral health hospitals. Only locations where patients reside overnight are included, i.e., inpatient locations. De.3. If included in a composite, please identify the composite measure (title and NQF number if endorsed).
#0753: American College of Surgeons – Centers for Disease Control and Prevention (ACS-CDC) Harmonized Procedure Specific Surgical Site Infection (SSI) Outcome Measure	Prototype measure for the facility adjusted Standardized Infection Ratio (SIR) of deep incisional and organ/space Surgical Site Infections (SSI) at the primary incision site among adult patients aged >= 18 years as reported through the ACS National Surgical Quality Improvement Program (ACS-NSQIP) or CDC National Health and Safety Network (NHSN). Prototype also includes a systematic, retrospective sampling of operative procedures in healthcare facilities. This prototype measure is intended for time-limited use and is proposed as a first step toward a more comprehensive SSI measure or set of SSI measures that include additional surgical procedure categories and expanded SSI risk-adjustment by procedure type. This single prototype measure is applied to two operative procedures, colon surgeries and abdominal hysterectomies, and the measure yields separate SIRs for each procedure.
#0754: National Healthcare Safety Network (NHSN) Central line-associated Bloodstream Infection (CLABSI) Outcome Measure	 Standardized Infection Ratio (SIR) of healthcare-associated, central line-associated bloodstream infections (CLABSI) will be calculated among patients in the following patient care locations: Intensive Care Units (ICUs) Specialty Care Areas (SCAs) - adult and pediatric: long term acute care, bone marrow transplant, acute dialysis, hematology/oncology, and solid organ transplant locations other inpatient locations. (Data from these locations are reported from acute care general hospitals (including specialty hospitals), freestanding long term acute care hospitals, rehabilitation hospitals, and behavioral health hospitals. Only locations where patients reside overnight are included, i.e., inpatient locations.