2018 OPTIONS FOR INDIVIDUAL MEASURES:
REGISTRY ONLY

MEASURE TYPE:
Process

DESCRIPTION:
Percentage of patients regardless of age undergoing a total knee replacement who had the prophylactic antibiotic completely infused prior to the inflation of the proximal tourniquet

INSTRUCTIONS:
This measure is to be submitted each time a procedure for total knee replacement is performed during the performance period. There is no diagnosis associated with this measure. This measure may be submitted by eligible clinicians who perform the quality actions described in the measure based on the services provided and the measure-specific denominator coding.

Measure Submission:
The listed denominator criteria is used to identify the intended patient population. The numerator options included in this specification are used to submit the quality actions allowed by the measure. The quality-data codes listed do not need to be submitted for registry-based submissions; however, these codes may be submitted for those registries that utilize claims data.

DENOMINATOR:
Patients regardless of age undergoing a total knee replacement performed

Denominator Criteria (Eligible Cases):
All patients regardless of age
AND
Patient procedure during the performance period (CPT): 27438, 27442, 27445, 27446, 27447

NUMERATOR:
Patients who had the prophylactic antibiotic completely infused prior to the inflation of the proximal tourniquet (tourniquet around the proximal thigh)

Numerator Options:
Performance Met:
Patients who had the prophylactic antibiotic completely infused prior to the inflation of the proximal tourniquet (G9301)

OR

Denominator Exception:
Documentation of medical reason(s) for not completely infusing the prophylactic antibiotic prior to the inflation of the proximal tourniquet (e.g., a tourniquet was not used) (G9300)

OR

Performance Not Met:
Prophylactic antibiotic not completely infused prior to the inflation of the proximal tourniquet, reason not given (G9302)
RATIONALE:
The Surgical Care Improvement Project (SCIP) evaluates the timing and appropriateness of the prophylactic antibiotic. This measure evaluates that the prophylactic antibiotic is completely infused prior to the inflation of the tourniquet.

This measure is designed for use by physicians and eligible health care professionals managing ongoing care for all patients undergoing a total knee replacement. This measure addresses the intraoperative period.

CLINICAL RECOMMENDATION STATEMENT:
National Surgical Infection Prevention Project Advisory Statement 2004 (Bratzler DW, Houck PM, 2005)

If a proximal tourniquet is used, the antimicrobial should be completely infused before inflation.

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These performance measures are not clinical guidelines. They do not establish a standard of medical care and have not been tested for all potential applications. These Measures and specifications are provided “as is” without warranty of any kind. AAHKS shall not be responsible for any use of these performance measures.

Limited proprietary coding is contained in the Measure specifications for convenience. Users of the proprietary code sets should obtain all necessary licenses from the owners of these code sets. AAHKS disclaims all liability for use or accuracy of any Current Procedural Terminology (CPT®) or other coding contained in the specifications.

The Measures are subject to review and may be revised at any time by AAHKS. The Measures may not be altered without the prior written approval of AAHKS. Users of the Measures shall not have the right to alter, enhance, or otherwise modify the Measures.

2018 Registry Flow for Quality ID #352: Total Knee Replacement: Preoperative Antibiotic Infusion with Proximal Tourniquet

Start

Not Included in Eligible Population/Denominator

Procedure as Listed in Denominator (1/1/2018 thru 12/31/2018)

Patients Who Had the Prophylactic Antibiotic Completely Infused Prior to the Initiation of the Proximal Tourniquet

Data Completeness Met + Performance Met G0901 or equivalent (40 procedures)

Data Completeness Met + Denominator Exception G9350 or equivalent (10 procedures)

Documentation of Medical Reason(s) For Not Completely Infusing the Prophylactic Antibiotic Prior to the Initiation of the Proximal Tourniquet

Data Completeness Met + Performance Not Met G9352 or equivalent (20 procedures)

Prophylactic Antibiotic Not Completely Infused Prior to the Initiation of the Proximal Tourniquet; Reason Not Given

Data Completeness Not Met Quality Data Code or equivalent not submitted (10 procedures)

SAMPLE CALCULATIONS:

Data Completeness -
Performance Met (a=40 procedures) - Denominator Exception (b=10 procedures) - Performance Not Met (c=20 procedures) = 70 procedures = 67.66%

Eligible Population/Denominator (d=80 procedures) = 80 procedures

Performance Rate -
Performance Met (a=40 procedures) = 40 procedures = 66.67%

Data Completeness Numerator (70 procedures) - Denominator Exception (b=10 procedures) = 60 procedures

*See the posted Measure Specification for specific coding and instructions to submit this measure.

NOTE: Submission Frequency Procedure
2018 Registry Flow for Quality ID

#352: Total Knee Replacement: Preoperative Antibiotic Infusion with Proximal Tourniquet

Please refer to the specific section of the specification to identify the denominator and numerator information for use in submitting this Individual Specification. This flow is for registry data submission.

1. Start with Denominator

2. Check Encounter Performed:
   a. If Encounter as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
   b. If Encounter as Listed in the Denominator equals Yes, include in the Eligible Population.

3. Denominator Population:
   a. Denominator population is all Eligible Patients in the denominator. Denominator is represented as Denominator in the Sample Calculation listed at the end of this document. Letter d equals 80 episodes in the Sample Calculation.

4. Start Numerator

5. Check Patients Who Had the Prophylactic Antibiotic Completely Infused Prior to the Inflation of the Proximal Tourniquet:
   a. If Patients Who Had the Prophylactic Antibiotic Completely Infused Prior to the Inflation of the Proximal Tourniquet equals Yes, include in Data Completeness Met and Performance Met.
   b. Data Completeness Met and Performance Met is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter a equals 40 episodes in the Sample Calculation.
   c. If A Patients Who Had the Prophylactic Antibiotic Completely Infused Prior to the Inflation of the Proximal Tourniquet equals No, proceed to Documentation of Medical Reason(s) For Not Completely Infusing the Prophylactic Antibiotic Prior to the Inflation of the Proximal Tourniquet.

6. Check Documentation of Medical Reason(s) For Not Completely Infusing the Prophylactic Antibiotic Prior to the Inflation of the Proximal Tourniquet:
   a. If Documentation of Medical Reason(s) For Not Completely Infusing the Prophylactic Antibiotic Prior to the Inflation of the Proximal Tourniquet equals Yes, include in Data Completeness Met and Performance Exception.
   b. Data Completeness Met and Denominator Exception is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter b equals 10 episodes in the Sample Calculation.
   c. If Documentation of Medical Reason(s) For Not Completely Infusing the Prophylactic Antibiotic Prior to the Inflation of the Proximal Tourniquet equals No, proceed to Prophylactic Antibiotic Not Completely Infused Prior to the Inflation of the Proximal Tourniquet, Reason Not Given.
7. Check Prophylactic Antibiotic Not Completely Infused Prior to the Inflation of the Proximal Tourniquet, Reason Not Given:
   a. If Prophylactic Antibiotic Not Completely Infused Prior to the Inflation of the Proximal Tourniquet, Reason Not Given equals Yes, include in Data Completeness Met and Performance Not Met.
   b. Data Completeness Met and Performance Not Met is represented in the submission rate in the Sample Calculation listed at the end of this document. Letter c equals 20 episodes in the Sample Calculation.
   c. If Prophylactic Antibiotic Not Completely Infused Prior to the Inflation of the Proximal Tourniquet, Reason Not Given equals No, proceed to Data Completeness Not Met.

8. Check Data Completeness Not Met:
   a. If Data Completeness Not Met equals No, Quality Data Code or equivalent not submitted. 10 episodes have been subtracted from the Data Completeness Numerator in the Sample Calculation.

### Sample Calculations:

<table>
<thead>
<tr>
<th>Data Completeness</th>
<th>Performance Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance Met (a=4 procedures) + Denominator Exception (b=1 procedure) + Performance Met (c=2 procedures) = 7 procedures</td>
<td>Denominator = 6 procedures</td>
</tr>
<tr>
<td>Eligible Population / Denominator = 6 procedures</td>
<td>87.50%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Performance Rate</th>
<th>Data Completeness Numerator (7 procedures) – Denominator Exception (b=1 procedure) = 6 procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance Met (a=4 procedures) + Denominator Exception (b=1 procedure) = 4 procedures</td>
<td>66.67%</td>
</tr>
</tbody>
</table>