
2016 PQRS OPTIONS FOR INDIVIDUAL MEASURES: CLAIMS, REGISTRY

DESCRIPTION:
Percentage of surgical patients aged 18 years and older undergoing procedures with the indications for a first OR second generation cephalosporin prophylactic antibiotic who had an order for a first OR second generation cephalosporin for antimicrobial prophylaxis.

INSTRUCTIONS:
This measure is to be reported each time a procedure is performed during the reporting period for patients who undergo surgical procedures with the indications for a first or second generation cephalosporin prophylactic antibiotic. There is no diagnosis associated with this measure. It is anticipated that clinicians who perform the listed surgical procedures as specified in the denominator coding will submit this measure.

Measure Reporting via Claims:
CPT codes and patient demographics are used to identify patients who are included in the measure’s denominator. Quality-data codes are used to report the numerator of the measure. If multiple surgical procedures were performed on the same date of service and submitted on the same claim form, it is not necessary for the same clinician to submit the quality-data code with each procedure. However, if multiple NPIs are reporting this measure on the same claim, each NPI should report the quality-data code.

When reporting the measure via claims, submit the listed CPT codes, and the appropriate quality-data code. All measure-specific coding should be reported on the claim(s) representing the eligible encounter.

Measure Reporting via Registry:
CPT codes and patient demographics are used to identify patients who are included in the measure’s denominator. The listed numerator options are used to report the numerator of 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:
All surgical patients aged 18 years and older undergoing procedures with the indications for a first OR second generation cephalosporin prophylactic antibiotic.

Denominator Instructions: CPT Category I procedure codes billed by surgeons performing surgery on the same patient, submitted with modifier 62 (indicating two surgeons, i.e., dual procedures) will be included in the denominator population. Both surgeons participating in PQRS will be fully accountable for the clinical action described in the measure.

Denominator Criteria (Eligible Cases):
Patients aged $\geq 18$ years on date of encounter

AND

Patient encounter during the reporting period (CPT): Listed below are surgical procedures with indications for first or second generation cephalosporin prophylactic antibiotic
<table>
<thead>
<tr>
<th>SURGICAL PROCEDURE</th>
<th>CPT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integumentary</td>
<td>15732, 15734, 15736, 15738, 15830, 15832, 15833, 15834, 15835, 15836, 15837, 19260, 19271, 19272, 19300, 19301, 19302, 19303, 19304, 19305, 19306, 19307, 19316, 19318, 19324, 19325, 19328, 19330, 19340, 19342, 19350, 19355, 19357, 19361, 19364, 19366, 19367, 19368, 19369, 19370, 19371, 19380</td>
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<tr>
<td>Spine</td>
<td>22325, 22514, 22586, 22612, 22630, 22800, 22802, 22804, 63030, 63042</td>
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<tr>
<td>Hip Reconstruction</td>
<td>27125, 27130, 27132, 27134, 27137, 27138</td>
</tr>
<tr>
<td>Trauma (Fractures)</td>
<td>27235, 27236, 27244, 27245, 27269, 27759, 27766, 27782, 27814</td>
</tr>
<tr>
<td>Knee Reconstruction</td>
<td>27440, 27441, 27442, 27443, 27445, 27446, 27447</td>
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<tr>
<td>Vascular</td>
<td>27880, 27881, 27882, 27884, 27886, 27888, 33877, 33880, 33881, 33883, 33886, 33889, 33981, 34000, 34002, 34003, 34004, 34005, 34812, 34820, 34825, 34830, 34831, 34832, 34833, 34834, 34841, 34842, 34843, 34844, 34845, 34846, 34847, 34848, 34900, 35011, 35013, 35081, 35082, 35091, 35092, 35102, 35103, 35131, 35141, 35142, 35151, 35152, 35206, 35266, 35301, 35363, 35371, 35372, 35460, 35512, 35521, 35523, 35525, 35533, 35537, 35538, 35539, 35540, 35556, 35558, 35565, 35566, 35570, 35571, 35572, 35583, 35585, 35587, 35601, 35606, 35612, 35616, 35621, 35623, 35626, 35631, 35632, 35633, 35634, 35636, 35637, 35638, 35642, 35645, 35646, 35647, 35650, 35654, 35656, 35661, 35663, 35665, 35666, 35671, 36830, 37224, 37225, 37226, 37227, 37228, 37229, 37230, 37231, 37617</td>
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<tr>
<td>Spleen and Lymph Nodes</td>
<td>38100, 38101, 38115, 38120, 38571, 38572, 38700, 38720, 38724, 38740, 38745, 38747, 38760, 38765, 38770, 38780</td>
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<tr>
<td>Esophagus</td>
<td>43020, 43030, 43045, 43100, 43101, 43107, 43108, 43112, 43113, 43116, 43117, 43118, 43121, 43122, 43123, 43124, 43130, 43135, 43279, 43280, 43281, 43282, 43300, 43305, 43310, 43312, 43313, 43314, 43320, 43325, 43327, 43328, 43330, 43331, 43332, 43333, 43334, 43335, 43336, 43337, 43340, 43341, 43351, 43352, 43360, 43361, 43400, 43401, 43405, 43410, 43415, 43420, 43425, 43496</td>
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<tr>
<td>Stomach</td>
<td>43500, 43501, 43502, 43510, 43520, 43605, 43610, 43611, 43620, 43621, 43622, 43631, 43632, 43633, 43634, 43640, 43641, 43644, 43645, 43651, 43652, 43653, 43800, 43810, 43820, 43825, 43830, 43832, 43840, 43843, 43845, 43846, 43847, 43848, 43850, 43855, 43860, 43865, 43870, 43880</td>
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<tr>
<td>Small Intestine</td>
<td>44005, 44010, 44020, 44021, 44050, 44055, 44100, 44120, 44125, 44126, 44127, 44130, 44132, 44133, 44135, 44136</td>
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<tr>
<td>Colon</td>
<td>44140, 44141, 44143, 44144, 44145, 44146, 44147, 44150, 44151, 44155, 44156, 44157, 44158, 44160, 44180, 44186, 44187, 44188, 44202, 44204, 44205, 44206, 44207, 44208, 44210, 44211, 44212, 44227, 44300, 44310, 44312, 44314, 44316, 44320, 44322, 44340, 44345, 44346, 44602, 44603, 44604, 44605, 44615, 44620, 44625, 44626, 44640, 44650, 44660, 44661, 44680, 44700</td>
</tr>
<tr>
<td>SURGICAL PROCEDURE</td>
<td>CPT CODE</td>
</tr>
<tr>
<td>-----------------------------------------</td>
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</tr>
<tr>
<td>Rectum</td>
<td>45000, 45020, 45110, 45111, 45112, 45113, 45114, 45116, 45119, 45120, 45121, 45123, 45126, 45130, 45135, 45136, 45150, 45160, 45171, 45172, 45395, 45397, 45400, 45402, 45540, 45541, 45550, 45560, 45562, 45563, 45800, 45805, 45820, 45825</td>
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<tr>
<td>Biliary</td>
<td>47400, 47420, 47425, 47460, 47480, 47562, 47563, 47564, 47570, 47600, 47605, 47610, 47612, 47620, 47700, 47711, 47712, 47715, 47720, 47721, 47740, 47764, 47765, 47780, 47785, 47800, 47801, 47802, 47900</td>
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<tr>
<td>Pancreas</td>
<td>48000, 48001, 48020, 48100, 48102, 48105, 48120, 48124, 48140, 48145, 48146, 48148, 48150, 48152, 48153, 48154, 48155, 48500, 48510, 48520, 48540, 48545, 48547, 48548, 48554, 48556</td>
</tr>
<tr>
<td>Abdomen, Peritoneum &amp; Omentum</td>
<td>27080, 27158, 27202, 27280, 27282, 49000, 49010, 49020, 49040, 49060, 49203, 49204, 49205, 49215, 49220, 49250, 49320, 49321, 49322, 49323, 49505, 49507, 49568</td>
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<tr>
<td>Renal Transplant</td>
<td>50320, 50340, 50360, 50365, 50370, 50380</td>
</tr>
<tr>
<td>Neurological Surgery</td>
<td>22551, 22554, 22558, 22600, 22602, 22630, 22633, 61154, 61131, 61133, 61151, 61152, 61158, 61468, 61697, 61700, 61750, 61751, 61867, 62223, 62230, 63015, 63020, 63030, 63042, 63045, 63046, 63047, 63056, 63075, 63081, 63267, 63276</td>
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<tr>
<td>Cardiothoracic Surgery</td>
<td>33120, 33130, 33140, 33141, 33202, 33250, 33251, 33256, 33261, 33305, 33315, 33321, 33322, 33335, 33365, 33366, 33400, 33401, 33403, 33404, 33405, 33406, 33410, 33411, 33413, 33416, 33422, 33425, 33426, 33427, 33430, 33460, 33463, 33464, 33465, 33475, 33496, 33510, 33511, 33512, 33513, 33514, 33515, 33516, 33530, 33533, 33534, 33535, 33536, 33542, 33545, 33548, 35211, 35241, 35271</td>
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<tr>
<td>General Thoracic Surgery</td>
<td>02367, 21627, 21632, 21740, 21750, 21825, 31760, 31766, 31770, 31775, 31786, 31805, 32096, 32097, 32098, 32100, 32110, 32112, 32124, 32140, 32141, 32150, 32215, 32220, 32225, 32310, 32320, 32440, 32442, 32445, 32448, 32480, 32482, 32484, 32486, 32489, 32505, 32506, 32507, 32800, 32810, 32815, 32900, 32905, 32906, 32940, 33020, 33025, 33030, 33031, 33035, 33030, 33310, 33320, 33361, 33362, 33363, 33364, 34051, 35012, 35216, 35246, 35276, 35311, 35526, 37616, 38381, 38746, 39000, 39010, 39200, 39220, 39545, 39561, 64746</td>
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<tr>
<td>Foot &amp; Ankle</td>
<td>27702, 27703, 27704, 28192, 28193, 28293, 28415, 28420, 28445, 28465, 28485, 28505, 28525, 28531, 28555, 28565, 28615, 28645, 28675, 28705, 28715, 28725, 28730, 28735, 28737</td>
</tr>
<tr>
<td>Laryngectomy</td>
<td>31400, 31420</td>
</tr>
<tr>
<td>Mediastinum and Diaphragm</td>
<td>39501, 39540, 39541, 39545, 39560, 39561</td>
</tr>
<tr>
<td>Bariatric</td>
<td>43770, 43771, 43772, 43773, 43774, 43775, 43843, 43845, 43846, 43847, 43848, 43866, 43887, 43888</td>
</tr>
<tr>
<td>Meckel's Diverticulum and Appendix</td>
<td>44800, 44820, 44850, 44900, 44950, 44955, 44960, 44970</td>
</tr>
<tr>
<td>Liver</td>
<td>47100, 47120, 47122, 47125, 47130, 47140, 47141, 47142, 47350, 47370, 47371, 47380, 47381</td>
</tr>
<tr>
<td>Gynecologic Surgery</td>
<td>57267, 58150, 58152, 58180, 58200, 58210, 58240, 58260, 58262, 58263, 58267, 58270, 58275, 58280, 58285, 58290, 58291, 58292, 58293, 58294, 58951, 58953, 58954, 58956</td>
</tr>
</tbody>
</table>
NUMERATOR:
Surgical patients who had an order for a first OR second generation cephalosporin for antimicrobial prophylaxis

Numerator Instructions: There must be documentation of an order (written order, verbal order, or standing order/protocol) for a first OR second generation cephalosporin for antimicrobial prophylaxis OR documentation that a first OR second generation cephalosporin was given.

NUMERATOR NOTE: In the event surgery is delayed, as long as the patient is redosed (if clinically appropriate) the numerator coding should be applied.

Numerator Quality-Data Coding Options for Reporting Satisfactorily:
Documentation of Order for First or Second Generation Cephalosporin for Antimicrobial Prophylaxis (written order, verbal order, or standing order/protocol)
Performance Met: G9197: Documentation of order for first OR second generation cephalosporin for antimicrobial prophylaxis
Note: G9197 is provided for antibiotic ordered or antibiotic given. Report G9197 if a first or second generation cephalosporin was given for antimicrobial prophylaxis.

OR
Order for First or Second Generation Cephalosporin not Ordered for Medical Reasons
Medical Performance Exclusion: G9196: Documentation of medical reason(s) for not ordering a first OR second generation cephalosporin for antimicrobial prophylaxis (e.g., patients enrolled in clinical trials, patients with documented infection prior to surgical procedure of interest, patients who were receiving antibiotics more than 24 hours prior to surgery [except colon surgery patients taking oral prophylactic antibiotics], patients who were receiving antibiotics within 24 hours prior to arrival [except colon surgery patients taking oral prophylactic antibiotics], other medical reason(s))

OR
Order for First or Second Generation Cephalosporin not Ordered, Reason not Given
Performance Not Met: G9198: Order for first OR second generation cephalosporin for antimicrobial prophylaxis was not documented, reason not given

RATIONALE:
Presence of antibiotics in the blood and tissue during and after surgery can prevent infection. Cephalosporins are currently the drug of choice for antimicrobial prophylaxis due to their broad-spectrum effect and low occurrence of adverse reactions.

CLINICAL RECOMMENDATION STATEMENTS:
For most procedures, cefazolin is the drug of choice for prophylaxis because it is the most widely studied antimicrobial agent, with proven efficacy. It has a desirable duration of action, spectrum of activity against organisms commonly encountered in surgery, reasonable safety, and low cost. (ASHP, 2013)
In operations for which cephalosporins represent appropriate prophylaxis, alternative antimicrobials should be provided to those with a high likelihood of serious adverse reaction or allergy on the basis of patient history or diagnostic tests such as skin testing.

The preferred antimicrobials for prophylaxis in patients undergoing hip or knee arthroplasty are cefazolin and cefuroxime. Vancomycin or clindamycin may be used in patients with serious allergy or adverse reactions to β-lactams.

The recommended antimicrobials for cardiothoracic and vascular operations include cefazolin or cefuroxime. For patients with serious allergy or adverse reaction to β-lactams, vancomycin is appropriate, and clindamycin may be an acceptable alternative. (SIPGWW, 2004)

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2016 Claims/Registry Individual Measure Flow
PQRS #21 NQF #0268: Perioperative Care: Selection of Prophylactic Antibiotic - First OR Second Generation Cephalosporin

Denominator

Start

Patient Age at Date of Service ≥ 18 Years

Yes

Not Included in Eligible Population/Denominator

No

Surgical Codes as Listed in Denominator*** (1/1/2016 thru 12/31/2016)

Yes

Include in Eligible Population/Denominator

No

Numerator

Documentation of Order for First OR Second Generation Cephalosporin for Antimicrobial Prophylaxis

Yes

Reporting Met + Performance Met G9197 or equivalent (3 procedures) a

No

Documentation for Medical Reason(s) for Not Ordering a First OR Second Generation Cephalosporin for Antimicrobial Prophylaxis

Yes

Reporting Met + Performance Exclusion G9196 or equivalent (2 procedures) b

No

Order for First OR Second Generation Cephalosporin for Antimicrobial Prophylaxis was Not Documented, Reason Not Given

Yes

Reporting Met + Performance Not Met G9198 or equivalent (2 procedures) c

No

Reporting Not Met Quality-Data Code or Equivalent Not Reported (1 procedure)

SAMPLE CALCULATIONS:

\[
\text{Performance Rate} = \frac{\text{Performance Met (a=3 procedures)}}{\text{Performance Exclusion (b=2 procedures)}} = \frac{7 \text{ procedures}}{8 \text{ procedures}} = 87.50\% \\
\text{Reporting Rate} = \frac{\text{Reporting Numerator (7 procedures) - Performance Exclusion (b=2 procedures)}}{\text{Performance Exclusion (b=2 procedures)}} = \frac{5 \text{ procedures}}{5 \text{ procedures}} = 60.00\%
\]

* See the posted Measure Specification for specific coding and instructions to report this measure.
** CPT Category I procedure codes billed by surgeons performing surgery on the same patient, submitted with modifier 52 (indicating two surgeons, i.e., dual procedures) will be included in the denominator population. Both surgeons participating in the Physician Quality Reporting System will be fully accountable for the clinical action described in the measure.
NOTE: Reporting Frequency: Procedure

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The measure diagrams were developed by CMS as a supplemental resource to be used in conjunction with the measure specifications. They should not be used alone or as a substitution for the measure specification.
2016 Claims/Registry Individual Measure Flow
PQRS #21 NQF #0268: Perioperative Care: Selection of Prophylactic Antibiotic - First OR Second
Generation Cephalosporin

Please refer to the specific section of the Measure Specification to identify the denominator and numerator information for use in reporting this Individual Measure.

1. Start with Denominator
2. Check Patient Age:
   a. If the Age greater than or equal to 18 years of age on Date of Service equals No during the measurement period, do not include in Eligible Patient Population. Stop Processing.
   b. If the Age greater than or equal to 18 years of age on Date of Service equals Yes during the measurement period, proceed to check Surgical Codes.
3. Check Surgical Codes:
   a. If Surgical Codes as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
   b. If Surgical Codes as Listed in the Denominator equals Yes, include in the Eligible population.
4. 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 8 procedures in the sample calculation.
5. Start Numerator
6. Check Documentation of Order for First OR Second Generation Cephalosporin for Antimicrobial Prophylaxis:
   a. If Documentation of Order for First OR Second Generation Cephalosporin for Antimicrobial Prophylaxis equals Yes, include in Reporting Met and Performance Met.
   b. Reporting Met and Performance Met letter is represented in the Reporting Rate and Performance Rate in the Sample Calculation listed at the end of this document. Letter a equals 3 procedures in Sample Calculation.
   c. If Documentation of Order for First OR Second Generation Cephalosporin for Antimicrobial Prophylaxis equals No, proceed to Documentation for Medical Reason(s) for Not Ordering a First OR Second Generation Cephalosporin Antimicrobial Prophylaxis.
7. Check Documentation for Medical Reason(s) for Not Ordering a First OR Second Generation Cephalosporin for Antimicrobial Prophylaxis:
   a. If Documentation for Medical Reason(s) for Not Ordering a First OR Second Generation Cephalosporin for Antimicrobial Prophylaxis equals Yes, include in reporting met and performance exclusion.
   b. Reporting Met and Performance exclusion letter is represented in the Reporting Rate and Performance Rate in the Sample Calculation listed at the end of this document. Letter b equals 2 procedures in the Sample Calculation.
8. Check Order for First OR Second Generation Cephalosporin for Antimicrobial Prophylaxis was Not Documented, Reason Not Given:
   a. If Order for First OR Second Generation Cephalosporin for Antimicrobial Prophylaxis was Not Documented, Reason Not Given equals Yes, include in the Reporting Met and Performance Not Met.
   b. Reporting Met and Performance Not Met letter is represented in the Reporting Rate in the Sample Calculation listed at the end of this document. Letter c equals 2 procedures in the Sample Calculation.
   c. If Order for First OR Second Generation Cephalosporin for Antimicrobial Prophylaxis was Not Documented, Reason Not Given equals No, proceed to Reporting Not Met.

9. Check Reporting Not Met:
   a. If Reporting Not Met equals No, Quality Data Code or equivalent not reported. 1 procedure has been subtracted from reporting numerator in the sample calculation.

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<table>
<thead>
<tr>
<th>Reporting Rate =</th>
<th>Performance Met (a=3 procedures) + Performance Exclusion (b=2 procedures) + Performance Not Met (c=2 procedures) = 7 procedures = 87.50%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Eligible Population / Denominator (d=8 procedures) = 8 procedures</td>
</tr>
<tr>
<td>Performance Rate =</td>
<td>Performance Met (a=3 procedures) = 3 procedures = 60.00%</td>
</tr>
<tr>
<td>Reporting Numerator (7 procedures) – Performance Exclusion (b=2 procedures) = 5 procedures</td>
<td></td>
</tr>
</tbody>
</table>