Quality ID #116 (NQF 0058): Avoidance of Antibiotic Treatment in Adults With Acute Bronchitis – National Quality Strategy Domain: Efficiency and Cost Reduction – Meaningful Measure Area: Appropriate Use of Healthcare

2019 COLLECTION TYPE: MIPS CLINICAL QUALITY MEASURES (CQMS)

MEASURE TYPE:

Process – High Priority

DESCRIPTION:

The percentage of adults 18–64 years of age with a diagnosis of acute bronchitis who were not prescribed or dispensed an antibiotic prescription

INSTRUCTIONS:

This measure is to be submitted at <u>each occurrence</u> of acute bronchitis during the performance period. This measure may be submitted by Merit-based Incentive Payment System (MIPS) eligible clinicians who perform the quality actions described in the measure based on the services provided and the measure-specific denominator coding.

Measure Submission Type:

Measure data may be submitted by individual MIPS eligible clinicians, groups, or third party intermediaries. The listed denominator criteria are used to identify the intended patient population. The numerator options included in this specification are used to submit the quality actions as allowed by the measure. The quality-data codes listed do not need to be submitted by MIPS eligible clinicians, groups, or third party intermediaries that utilize this modality for submissions; however, these codes may be submitted for those third party intermediaries that utilize Medicare Part B claims data. For more information regarding Application Programming Interface (API), please refer to the Quality Payment Program (QPP) website.

DENOMINATOR:

All patients aged 18 through 64 years of age with an outpatient, observation or emergency department (ED) visit with a diagnosis of acute bronchitis during the measurement period

DENOMINATOR NOTE: To determine eligibility, look for any of the listed antibiotic drugs below in the 30 days prior to the visit with the acute bronchitis diagnosis. As long as there are no prescriptions for the listed antibiotics during this time period, the patient is eligible for denominator inclusion. Do not include observation or ED visits that result in an inpatient admission. When an ED or observation visit and an inpatient stay are billed on separate claims, the visit results in an inpatient stay when the admission date for the inpatient stay occurs on the ED/observation date of service or one calendar day after. An ED or observation visit billed on the same claim as an inpatient stay is considered a visit that resulted in an inpatient stay.

*Signifies that this CPT Category I code is a non-covered service under the Medicare Part B Physician Fee Schedule (PFS). These non-covered services should be counted in the denominator population for MIPS CQMs.

Denominator Criteria (Eligible Cases):

Patients 18 through 64 years of age on date of encounter <u>AND</u> **Diagnosis for acute bronchitis (ICD-10-CM):** J20.3, J20.4, J20.5, J20.6, J20.7, J20.8, J20.9 AND

Patient encounter during the performance period (CPT or HCPCS): 99201, 99202, 99203, 99204, 99205, 99211, 99212, 99213, 99214, 99215, 99217, 99218, 99219, 99220, 99281, 99282, 99283, 99284, 99285,

99341, 99342, 99343, 99344, 99345, 99347, 99348, 99349, 99350, 99381, 99382, 99383, 99384, 99385, 99386, 99387, 99391, 99392, 99393, 99394, 99395, 99396, 99397, 99401, 99402, 99403,99404, 99411, 99412, 99420, 99429, 99455, 99456, G0402, G0438, G0439, G0463*, T1015*

AND NOT

DENOMINATOR EXCLUSIONS:

Observation or ED visits that result in an inpatient admission

Documentation of medical reason(s) for prescribing or dispensing antibiotic (e.g., intestinal infection, pertussis, bacterial infection, Lyme disease, otitis media, acute sinusitis, acute pharyngitis, acute tonsillitis, chronic sinusitis, infection of the pharynx/larynx/tonsils/adenoids, prostatitis, cellulitis/ mastoiditis/bone infections, acute lymphadenitis, impetigo, skin staph infections, pneumonia, gonococcal infections/venereal disease (syphilis, chlamydia, inflammatory diseases [female reproductive organs]), infections of the kidney, cystitis/UTI, acne, HIV disease/asymptomatic HIV, cystic fibrosis, disorders of the immune system, malignancy neoplasms, chronic bronchitis, emphysema, bronchiectasis, extrinsic allergic alveolitis, chronic airway obstruction, chronic obstructive asthma, pneumoconiosis and other lung disease due to external agents, other diseases of the respiratory system, and tuberculosis: G9712

Patients who use hospice services any time during the measurement period: G9713

NUMERATOR:

Patients who were not prescribed or dispensed antibiotics on or within 3 days of the initial date of service

Numerator Instructions:

For performance, the measure will be calculated as the number of patient encounters where antibiotics were neither prescribed nor dispensed on or within 3 days of the episode for acute bronchitis over the total number of encounters in the denominator (patients aged 18 through 64 years with an outpatient, observation or ED visit for acute bronchitis). A higher score indicates appropriate treatment of patients with acute bronchitis (e.g., the proportion for whom antibiotics were not prescribed or dispensed on or three days after the encounter).

Antibiotic Medications

Description	Prescription	
Aminoglycosides	Amikacin Tobramycin Gentamicin	Streptomycin
Aminopenicillins	Amoxicillin	Ampicillin
Antipseudomonal penicillins		
Beta-lactamase inhibitors	Amoxicillin-clavulanate Ampicillin- sulbactam	Piperacillin-tazobactam
		Ticarcillin-clavulanate
First-generation cephalosporins	Cefadroxil Cephalexin	Cefazolin
Fourth-generation cephalosporins	Cefepime	
Ketolides	Telithromycin	
Lincomycin derivatives	Clindamycin Lincomycin	

Description	Prescription	
Macrolides	Azithromycin	Erythromycin
	Clarithromycin	
	Erythromycin stearate	Erythromycin ethylsuccinate Erythromycin lactobionate
		Liythonyon addoordad
Miscellaneous antibiotics	Aztreonam	Daptomycin
	Chloramphenicol Vancomycin	Metronidazole
	Dalfopristin-quinupristin	
	Linezolid	Erythromycin-sulfisoxazole
Natural penicillins	Penicillin G sodium benzathine-	Penicillin V potassium
	procaine	Penicillin G benzathine
	Penicillin G potassium Penicillin G procaine	
Penicillinase resistant penicillins	Dicloxacillin	Nafcillin
	Oxacillin	
Quinolones	Ciprofloxacin	Levofloxacin
	Gemifloxacin	Moxifloxacin
	Ofloxacin	Norfloxacin
		Moxifloxacin
Rifamycin derivatives	Rifampin	
Second generation cephalosporin	Cefaclor	Cefoxitin
	Cefotetan	Cefuroxime
Sulfonamides	Cefprozil	
Sulionamides	Sulfadiazine	Sulfamethoxazole-trimethoprim
Tetracyclines	Doxycycline	Minocycline
	Tetracycline	
Third generation cephalosporins	Cefdinir Cefditoren Cefpodoxime	Cefotaxime
	Cefixim	Ceftibuten
		Ceftriaxone
		Ceftazidime
Urinary anti-infectives	Fosfomycin	Nitrofurantoin
	Nitrofurantoin macrocrystals	Nitrofurantoin macrocrystals-
	Trimothoprim	monohydrate
	Trimethoprim	

<u>OR</u>	<u>Numerator Options:</u> Performance Met:	Antibiotic neither prescribed nor dispensed (4124F)
	Performance Not Met:	Antibiotic prescribed or dispensed (4120F)

RATIONALE:

Antibiotics are commonly misused and overused for a number of viral respiratory conditions where antibiotic treatment is not clinically indicated. (Scott J.G., D. Cohen, B. Dicicco-Bloom, 2001) About 80 percent of antibiotics prescribed for acute respiratory infections in adults are unnecessary, according to CDC prevention guidelines. In adults, antibiotics are most often (65–80 percent) prescribed for acute bronchitis, despite its viral origin. The misuse and overuse of antibiotics contributes to antibiotic drug resistance, which is of public health concern due to the diminished efficacy of antibiotics against bacterial infections, particularly in sick patients and the elderly. (Austin D.J.,

Kristinsson, R.M. Anderson, 1999, Patterson, JE, 2001, Cohen ML, 1992, Lipsitch M, 2001)

A HEDIS measure that highlights inappropriate antibiotic prescribing in adults for a common respiratory condition will help to raise awareness among clinicians and patients about inappropriate antibiotic use. Antibiotics are most often inappropriately prescribed in adults with acute bronchitis. This measure builds on an existing HEDIS measure targeting inappropriate antibiotic prescribing for children with upper respiratory infection (common cold), where antibiotics are also most often inappropriately prescribed. (Chandran R., 2001, Gonzales R., J.F. Steiner, et al, 1999)

CLINICAL RECOMMENDATION STATEMENTS:

Clinical guidelines do not support antibiotic treatment of otherwise healthy adults with acute bronchitis due to the viral origin of acute bronchitis. Patients with chronic bronchitis, COPD or other chronic comorbidity may be treated with antibiotics and are therefore excluded from the measure denominator. (Gonzales R., D.C. Malone, J.H. Maselli, et al, 2001)

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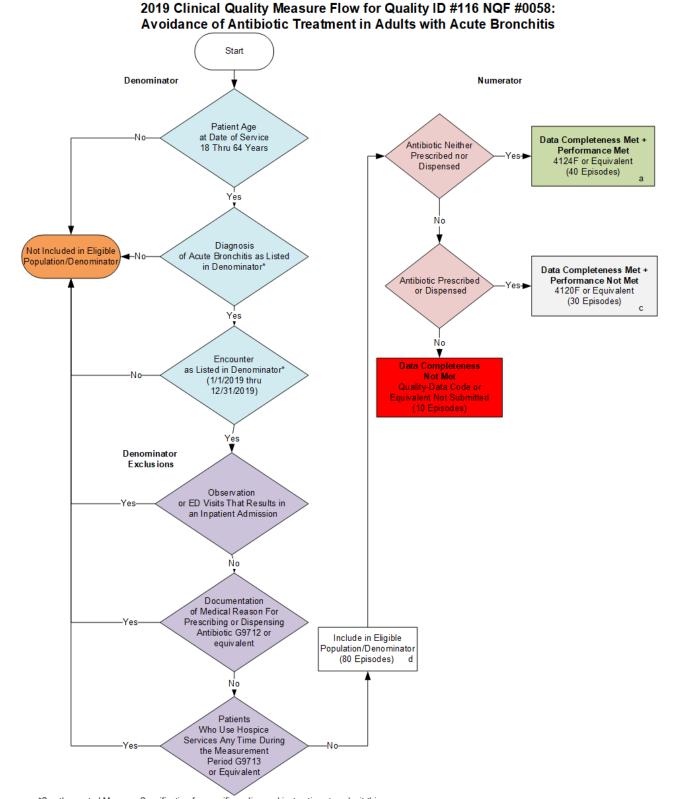
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*See the posted Measure Specification for specific coding and instructions to submit this measure.

NOTE: Submission Frequency: Episode

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2019 Clinical Quality Measure Flow for Quality ID #116 NQF #0058: Avoidance of Antibiotic Treatment in Adults with Acute Bronchitis

SAMPLE CALCULATIONS:

Data Completeness= Performance Met (a=40 episodes) + Performance Not Met (c=30 episodes) = 70 episodes = 87.50%

Eligible Population / Denominator (d=80 episodes = 80 episodes

Performance Rate=

Performance Met (a=40 episodes)=40 episodes57.14%Data Completeness Numerator (70 episodes)=70 episodes

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NOTE: Submission Frequency: Episode

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2019 Clinical Quality Measure Flow Narrative for Quality ID#116 NQF #0058: Avoidance of Antibiotic Treatment in Adults with Acute Bronchitis

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

- 1. Start with Denominator
- 2. Check Patient Age:
 - a. If Patient Age equal to 18 thru 64 Years on Date of Service equals No during the measurement period, do not include in Eligible Population. Stop Processing.
 - b. If Patient Age equal to 18 thru 64 Years on Date of Service equals Yes during the measurement period, proceed to check Patient Diagnosis.
- 3. Check Patient Diagnosis:
 - a. If Diagnosis of Acute Bronchitis as Listed in the Denominator equals No, do not include in Eligible Population. Stop Processing.
 - b. If Diagnosis of Acute Bronchitis as Listed in the Denominator equals Yes, proceed to check Encounter Performed.
- 4. Check Encounter Performed:
 - a. If Encounter as Listed in the Denominator equals No, do not include in Eligible Population. Stop Processing.
 - b. If Encounter as Listed in the Denominator equals Yes, proceed to check Observation or ED Visits that Results in an Inpatient Admission.
- 5. Check Observation or ED Visits that Results in an Inpatient Admission:
 - a. If Observation or ED Visits that Results in an Inpatient Admission equals No, proceed to check Documentation of Medical Reason for Prescribing or Dispensing Antibiotic.
 - b. If Observation or ED Visits that Results in an Inpatient Admission equals Yes, do not include in Eligible Population. Stop Processing.
- 6. Check Documentation of Medical Reason for Prescribing or Dispensing Antibiotic:
 - a. If Documentation of Medical Reason for Prescribing or Dispensing Antibiotic equals No, proceed to check Patients Who Use Hospice Services Any Time During the Measurement Period.
 - b. If Documentation of Medical Reason for Prescribing or Dispensing Antibiotic equals Yes, do not include in Eligible Population. Stop Processing.
- 7. Check Patients Who Use Hospice Services Any Time During the Measurement Period:
 - a. If Patients Who Use Hospice Services Any Time During the Measurement Period equals No, include in Eligible Population.
 - b. If Patients Who Use Hospice Services Any Time During the Measurement Period equals Yes, do not include in Eligible Population. Stop Processing.
- 8. Denominator Population:

- a. Denominator Population is all Eligible Episodes 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.
- 9. Start Numerator
- 10. Check Antibiotic Neither Prescribed nor Dispensed:
 - a. If Antibiotic Neither Prescribed nor Dispensed equals Yes, include in Data Completeness Met and Performance Met.
 - b. Data Completeness Met and Performance Met letter is represented as 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 Antibiotic Neither Prescribed nor Dispensed equals No, proceed to check Antibiotic Prescribed or Dispensed.
- 11. Check Antibiotic Prescribed or Dispensed:
 - a. If Antibiotic Prescribed or Dispensed equals Yes, include in the Data Completeness Met and Performance Not Met.
 - b. Data Completeness Met and Performance Not Met letter is represented as Data Completeness in the Sample Calculation listed at the end of this document. Letter c equals 30 episodes in the Sample Calculation.
 - c. If Antibiotic Prescribed or Dispensed equals No, proceed to check Data Completeness Not Met.
- 12. Check Data Completeness Not Met:
 - a. If Data Completeness Not Met, the Quality Data Code or equivalent was not submitted. 10 episodes have been subtracted from the Data Completeness Numerator in the Sample Calculation.

SAMPLE CALCULATIONS: