HEDIS<sup>®</sup> Tip Sheet Effectiveness of Care Measure



## Avoidance of Antibiotic Treatment for Acute Bronchitis/Bronchiolitis (AAB) and Appropriate Treatment for Upper Respiratory Infection (URI)

Learn how to improve your HEDIS<sup>1</sup> rates. This tip sheet gives key details about the Avoidance of Antibiotic Treatment for Acute Bronchitis/Bronchiolitis and Appropriate Treatment for Upper Respiratory Infection measures, eligibility, codes, best practices, exclusions and antibiotic medications. The goal is to reduce unnecessary use of antibiotics.

> The measures calculate the percentage of episodes for patients three months of age and older with a diagnosis of one or more of the following, which did not result in an antibiotic dispensing event.

- Acute bronchitis/bronchiolitis; or
- Upper respiratory infection

They are both reported as an inverted rate. A higher rate indicates appropriate treatment (i.e., the proportion of episodes that did not result in an antibiotic prescribing event).



Eligible	Ages	Three months and older as of the episode date.	
patients <sup>2</sup>	Episode date	The date of service for any outpatient, phone, observation or emergency department visits, e-visit or virtual check-in (during the measurement year) with a diagnosis of acute bronchitis/bronchiolitis or upper respiratory infection.	
	Intake period	The intake period captures eligible episodes of treatment. It includes a 12-month window that begins on July 1 of the year prior to the measurement year and ends on June 30 of the measurement year.	

<sup>1</sup>HEDIS – Healthcare Effectiveness Data and Information Set.

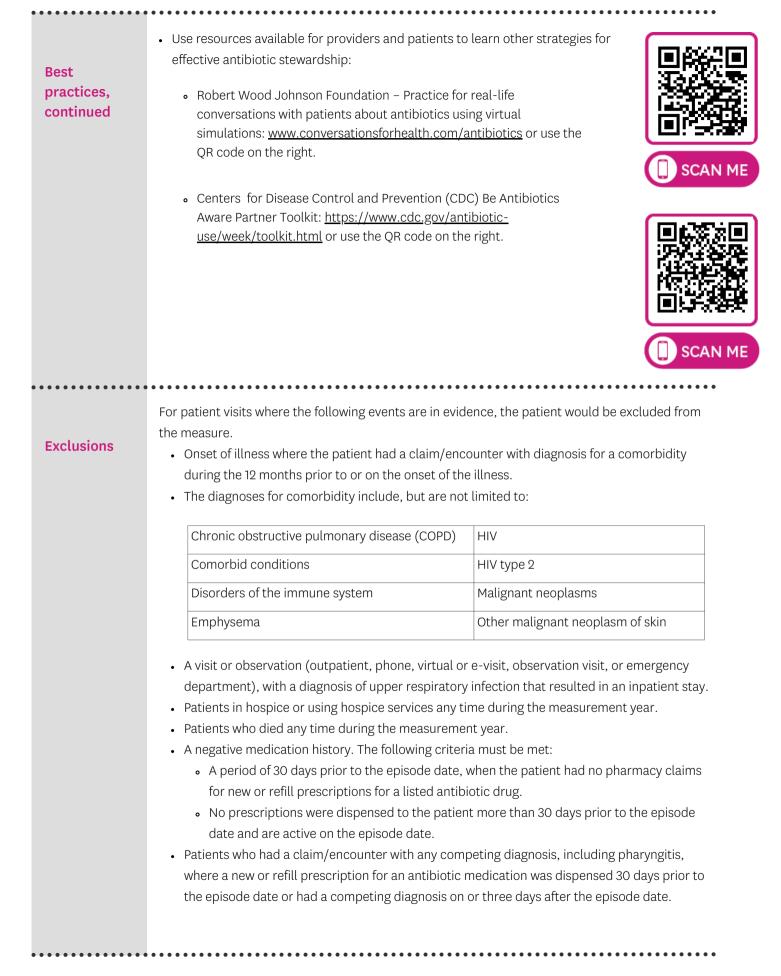
<sup>2</sup> NCQA's HEDIS Measurement Year 2023 Volume 2: Technical Specifications for Health Plans, Washington, D.C., 2022

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**Measure**<sup>2</sup>

10	Acute bronchitis/bronchiolitis	Upper respiratory infection			
nosis es	J20.3, J20.4, J20.5, J20.6, J20.7, J20.8, J20.9, J21.0, J21.1, J21.8, J21.9	J00, J06.0, J06.9			
tices	<ul> <li>Discourage the use of antibiotics for routine treatment of uncomplicated acute bronchitis or URI, unless clinically indicated. It may be helpful to refer to their illness as a 'chest cold' or viral upper respiratory infection in patient communications, if appropriate.</li> <li>If you are treating a patient for another condition or illness, document the other diagnosis code on the claim.</li> <li>If prescribing an antibiotic for a bacterial infection, use the diagnosis code for the bacterial infection and/or comorbid condition.</li> <li>If a patient is requesting antibiotics for their condition, educate the patient on the difference between bacterial and viral infections.</li> <li>Introduce the concept of antibiotic resistance. Antibiotic resistance is one of the most urgent threats to the public's health. Antimicrobial resistance happens when germs like bacteria and fungi develop the ability to defeat the drugs designed to kill them. That means the germs are not killed and continue to grow<sup>3</sup>.</li> <li>Emphasize that it is important to use the right antibiotic for the right condition and take them as prescribed.</li> </ul>				
	<ul> <li>Offer the patient symptomatic relief, as needed, such as cough suppressants, nonsteroidal anti-inflammatory drugs (NSAIDS), multi-symptom over-the-counter (OTC) medications, and possibly bronchodilators (if there is any bronchospasm). The Centers for Disease Control and Prevention (CDC) has a 'Symptom Relief Prescription Pad' that can be used for this purpose. It can be downloaded at: https://bit.ly/3L5doAh or use the QR code on the right.</li> <li>If a patient tries to insist on an antibiotic, form a plan with the patient, such as watchful waiting or delayed prescribing. Encourage the patient to call or return to the office if new symptoms occur, or if the condition has not improved in the time you recommend.</li> </ul>				

<sup>3</sup> Be Antibiotics Aware Partner Toolkit, Centers for Disease Control and Prevention, "Messages about Antimicrobial Resistance" at https://www.cdc.gov/antibiotic-use/week/toolkit.html.



## Exclusion codes

The exclusions, comorbidities and competing diagnoses for AAB and URI are too numerous to list. Please visit the National Institutes of Health (NIH) National Library of Medicine Value Set Authority Center at https://vsac.nlm.nih.gov/welcome for a complete list.

Below are competing codes for acute bronchitis/bronchiolitis and upper respiratory infection.

Diagnosis	Diagnosis ICD-10 code
Acute sinusitis	J01.80, J01.90
Acute tonsillitis	J03.81, J03.90, J03.91
Bacterial pneumonia	J13, J14, J15.211, J15.212, J15.3, J15.4, J15.7, J15.9, J16.0, J16.8, J18.0, J18.1, J18.8, J18.9
Chronic sinusitis	J32
Otitis media	H66, H67
Pharyngitis	J02.0, J02.8, J02.9
Streptococcal tonsillitis	J03.00, J03.01, J03.80

(continued)

## AAB antibiotic medication table<sup>2</sup>, also used for URI conditions per the HEDIS specifications.

Description	Prescription			
Aminoglycosides	• Amikacin	Streptomycin		
	• Gentamicin	• Tobramycin		
Aminopenicillins	• Amoxicillin	• Ampicillin		
Beta-lactamase inhibitors	<ul><li>Amoxicillin-clavulanate</li><li>Ampicillin-sulbactam</li></ul>	• Piperacillin-tazobactam		
First-generation cephalosporins	<ul><li>Cefadroxil</li><li>Cefazolin</li></ul>	• Cephalexin		
Fourth-generation cephalosporins	Cefepime			
Lincomycin derivatives	Clindamycin	Lincomycin		
Macrolides	<ul><li>Azithromycin</li><li>Clarithromycin</li></ul>	Erythromycin		
Miscellaneous antibiotics	<ul><li>Aztreonam</li><li>Chloramphenicol</li><li>Daptomycin</li></ul>	<ul><li>Linezolid</li><li>Metronidazole</li><li>Quinupristin-dalfopristin</li></ul>	Vancomycin	
Natural penicillins	<ul> <li>Penicillin G benzathine- procaine</li> <li>Penicillin G potassium</li> </ul>	<ul><li>Penicillin G procaine</li><li>Penicillin G sodium</li></ul>	<ul><li>Penicillin V potassium</li><li>Penicillin G benzathine</li></ul>	
Penicillinase resistant penicillins	• Dicloxacillin	• Nafcillin	• Oxacillin	
Quinolones	<ul><li>Ciprofloxacin</li><li>Gemifloxacin</li></ul>	<ul><li>Levofloxacin</li><li>Moxifloxacin</li></ul>	• Ofloxacin	
Rifamycin derivatives	Rifampin			
Second-generation cephalosporin	<ul><li>Cefaclor</li><li>Cefotetan</li></ul>	<ul><li>Cefoxitin</li><li>Cefprozil</li></ul>	Cefuroxime	
Sulfonamides	• Sulfadiazine	• Sulfamethoxazole- trimethoprim		
Tetracyclines	Doxycycline	Minocycline	Tetracycline	
Third-generation cephalosporins	<ul><li>Cefdinir</li><li>Cefixime</li><li>Cefotaxime</li></ul>	<ul><li>Cefpodoxime</li><li>Ceftazidime</li><li>Ceftriaxone</li></ul>		
Urinary anti-infectives	<ul><li>Fosfomycin</li><li>Nitrofurantoin</li></ul>	<ul> <li>Nitrofurantoin (monohydrate/macrocrystals) Trimethoprim</li> </ul>		