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>

0-10	Acute bronchitis/bronchiolitis	Upper respiratory infection
gnosis les	J20.3, J20.4, J20.5, J20.6, J20.7, J20.8, J20.9, J21.0, J21.1, J21.8, J21.9	JOO, JO6.0, JO6.9
st actices	<ul> <li>upper respiratory infection in patient community</li> <li>If you are treating a patient for another condition on the claim.</li> <li>If prescribing an antibiotic for a bacterial infection infection and/or comorbid condition.</li> <li>If a patient is requesting antibiotics for their con- between bacterial and viral infections.</li> <li>Introduce the concept of antibiotic resistant urgent threats to the public's health. Antimediation</li> </ul>	It o refer to their illness as a 'chest cold' or viral cations, if appropriate. on or illness, document the other diagnosis code ion, use the diagnosis code for the bacterial ndition, educate the patient on the difference nce. Antibiotic resistance is one of the most nicrobial resistance happens when germs like feat the drugs designed to kill them. That means ow <sup>3</sup> . ght antibiotic for the right condition and take
	<ul> <li>Offer the patient symptomatic relief, as needed suppressants, nonsteroidal anti-inflammatory a symptom over-the-counter (OTC) medications bronchodilators (if there is any bronchospasm) Control and Prevention (CDC) has a 'Symptom can be used for this purpose. It can be downloa https://bit.ly/3L5doAh or use the QR code on the symptoms occur, or if the condition has not imposed.</li> </ul>	drugs (NSAIDS), multi- s, and possibly ). The Centers for Disease Relief Prescription Pad' that aded at: he right. a plan with the patient, such as watchful patient to call or return to the office if new

<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.

Best practices, continued	<ul> <li>Use resources available for providers and patients to effective antibiotic stewardship:</li> <li>Robert Wood Johnson Foundation – Practice for conversations with patients about antibiotics us simulations: www.conversationsforhealth.com/rQR code on the right.</li> <li>Centers for Disease Control and Prevention (CD Aware Partner Toolkit: https://www.cdc.gov/amuse/week/toolkit.html or use the QR code on the</li> </ul>	r real-life ing virtual <u>antibiotics</u> or use the C) Be Antibiotics <u>tibiotic-</u>	
<b>continued</b>	<ul> <li>conversations with patients about antibiotics us simulations: <u>www.conversationsforhealth.com/</u>QR code on the right.</li> <li>Centers for Disease Control and Prevention (CD Aware Partner Toolkit: <u>https://www.cdc.gov/an</u></li> </ul>	ing virtual antibiotics or use the C) Be Antibiotics tibiotic-	
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tł		U SCAIN.	
	For patient visits where the following events are in evid	ence, the patient would be excluded from	
Exclusions	<ul> <li>the measure.</li> <li>Onset of illness where the patient had a claim/encounter with diagnosis for a comorbidity during the 12 months prior to or on the onset of the illness.</li> <li>The diagnoses for comorbidity include, but are not limited to:</li> </ul>		
	Chronic obstructive pulmonary disease (COPD)	HIV	
	Comorbid conditions	HIV type 2	
	Disorders of the immune system	Malignant neoplasms	
	Emphysema	Other malignant neoplasm of skin	
	<ul> <li>A visit or observation (outpatient, phone, virtual or department), with a diagnosis of upper respiratory.</li> <li>Patients in hospice or using hospice services any t</li> <li>Patients who died any time during the measureme.</li> <li>A negative medication history. The following criter <ul> <li>A period of 30 days prior to the episode date, for new or refill prescriptions for a listed antible</li> <li>No prescriptions were dispensed to the patier date and are active on the episode date.</li> </ul> </li> <li>Patients who had a claim/encounter with any com where a new or refill prescription for an antibiotic the episode date or had a competing diagnosis on</li> </ul>	y infection that resulted in an inpatient stay. ime during the measurement year. ent year. ia must be met: when the patient had no pharmacy claims iotic drug. Int more than 30 days prior to the episode peting diagnosis, including pharyngitis, medication was dispensed 30 days prior to	

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>	