

Asthma Medication Ratio (AMR)

Learn how to improve the Asthma Medication Ratio (AMR) HEDIS¹ rates by using this tip sheet for key details about the measure, codes, and guidance for documentation.

Measure

AMR

measure

population

eligible

Members ages 5–64 years who were were identified as having persistent asthma and had a ratio of controller medications to total asthma medications of 0.50 or greater during the measurement year.²

Members are identified as having persistent asthma who met at least one of the following criteria during both the measurement year and the year prior to the measurement year.³

- One emergency department (ED) visit with a principal diagnosis of asthma.
- One acute inpatient encounter, with a principal diagnosis of asthma, without telehealth.
- One acute inpatient discharge with a principal diagnosis of asthma on the discharge claim.
- Four outpatient visits, observation visits, telephone visits or e-visits or virtual check-ins, on different dates of service, with any diagnosis of asthma and at least two asthma medication dispensing events for any controller or reliever medication.
- Four asthma medication dispensing events for any controller or reliever medication.
 - Four asthma medication dispensing events, where leukotriene modifiers or antibody inhibitors were the sole asthma medications dispensed in that year, must also have at least one diagnosis of asthma.

Measure rate interpretation

The AMR is the number of controller units of medication divided by the number of units of total asthma medications (controller and rescue units) dispensed.

If a member's ratio is less than 0.50 it means that a member is using too much rescue medication and their asthma may not be controlled well.

The goal is for a medication ratio to be higher than 0.50 for the year.



² NCQA. HEDIS 2023 Technical Specifications for Health Plans, Volume 2, Washington, D.C., 2022.



³ Criteria does not need to be the same across both years.

Best practices

- Confirm that patients are adhering to their asthma medication including filling controller prescriptions as advised.
- Check with patients if they have any barriers to filling the prescription.
- Educate patients on the difference between a rescue inhaler versus a long-term controller.
- Assess asthma symptoms at every visit to determine if preventive medication action is needed (i.e. new controller medication, step up in therapy prescription, reinforcement of adherence).
- Consider more frequent visits until the patient is compliant, if possible.
- Utilize <u>Asthma Action Plan</u> to develop action and treatment plans for patients. Work together with patients and encourage them to follow their Asthma Action Plan to manage their condition.
- Provide a copy of the patient's <u>Asthma Action Plan</u> for school and follow up with the school to confirm access to a rescue inhaler and compliance.
- Help patients to identify their asthma triggers. Educate patients on the importance of an asthma-friendly home environment and perform allergen sensitivity testing if needed. Use the <u>Centers for Disease Control & Prevention's (CDC's) Home Assessment Checklist</u> to guide patients to assess their home environment.
- Emphasize the importance of smoking cessation, avoidance of environmental tobacco exposure, gastroesophageal reflux disease, and medications that worsen asthma symptoms. Refer smoking patients to a smoking cessation program.
- Refer patients to asthma-related home visit programs available through local community organizations or patients' health insurance plans.

Dispensing event definitions			
Oral medication	 One prescription of an amount lasting 30 days or less. Allocate the dispensing events to the appropriate year based on the date when the prescription is dispensed. Multiple prescriptions for different medications dispensed on the same day are counted as separate dispensing events. If multiple prescriptions for the same medication are dispensed on the same day, sum the days' supply and divide by 30. 		
Inhaler	 All inhalers (i.e., canisters) of the same medication dispensed on the same day count as one dispensing event. Different inhaler medications dispensed on the same day are counted as different dispensing events. Allocate the dispensing events to the appropriate year based on the date when the prescription was dispensed. 		
Injection	 Each injection counts as one dispensing event. Multiple dispensed injections of the same or different medications count as separate dispensing events. Allocate the dispensing events to the appropriate year based on the date when the prescription was dispensed. 		

Codes				
Description	ICD 10 codes			
Asthma diagnosis	ICD10CM: J45.21, J45.22, J45.31, J45.32, J45.41, J45.42, J45.51, J45.52, J45.901, J45.902, J45.990, J45.991, J45.998			
Uncomplicated asthma	J45.30, J45.40, J45.50, J45.909			

Asthma reliever medications				
Description	Prescriptions			
Short-acting, inhaled beta-2 agonists	Albuterol, Levalbuterol			

Asthma controller medications				
Description	Prescriptions			
Antibody inhibitiors	Omalizumab			
Anti-interleukin-4	Dupilumab			
Anti-interleukin-5	Benralizumab, Mepolizumab, Reslizumab			
Inhaled steroid combinations	Budesonide-formoterol, Fluticasone-			
(Formoterol can be used for acute exacerbations)	salmeterol, Fluticasone-vilanterol, Formoterol-mometasone			
Inhaled corticosteroids	Beclomethasone, Budesonide,			
(Can be used for acute exacerbations)	Ciclesonide, Flunisolide, Fluticasone,			
	Mometasone			
Leukotriene modifiers	Montelukast, Zafirlukast, Zileuton			
Methylxanthines	Theophylline			

Exclude members who met any of the following criteria:

- Members who had any diagnosis from any of the following conditions, any time during the measurement year:
 - Emphysema and other emphysema conditions,
 - Chronic obstructive pulmonary disease (COPD),
 - Obstructive chronic bronchitis,
 - Chronic respiratory conditions due to fumes or vapors,
 - · Cystic fibrosis, and

Exclusions

- Acute respiratory failure.
- Members who had no asthma controller or reliever medications dispensed during the measurement year.
- Members in hospice or using hospice services any time during the measurement year.
- Members who died any time during the measurement year.

Exclusions					
Description	Code	Description	Code		
Emphysema and other emphysema conditions	ICD10CM: J43.0-J43.2, J43.8, J43.9, J98.2, J98.3	Cystic fibrosis	ICD10CM: E84.0, E84.11, E84.19, E84.8, E84.9		
COPD	ICD10CM: J44.0, J44.1, J44.9	Acute respiratory failure	ICD10CM: J96.00-J96.02, J96.20-J96.22		
Obstructive chronic bronchitis	ICD9CM: 491.20-491.22 SNOMED CT: 185086009, 293241000119100	Chronic respiratory conditions due to fumes or vapors	ICD10CM: J68.4		