

**Asthma (Adult or Pediatric) or COPD**  
**Emergency Department or Observation Discharge**

**Description**

The percentage of patients who were identified as having asthma (pediatric or adult) or COPD who were discharged from the Emergency Department (ED) or Observation unit with a primary diagnosis of disease or a secondary diagnosis of disease exacerbation in the measurement year. A lower proportion indicates better performance.

**Calculation**

This measure requires administrative claims data and is calculated as follows:

The percentage of eligible population who have at least one claim for an ED or Observation encounter with a primary diagnosis of disease or secondary diagnosis of disease exacerbation in the measurement year (numerator divided by denominator).

**Definitions**

**Emergency Department Discharge**      Treatment received in the ED as indicated by claims codes and patient was not admitted for an inpatient stay

**Eligible Population**

**Ages**      Patients ages 2 years to less than 19 years at the start of the measurement year (Pediatric asthma); ages 19+ (Adult asthma) or 40+ (COPD)

**Enrollment**      Continuous enrollment during the measurement year (with no more than 30-day gap and must be enrolled in month 12) or continuously enrolled until hospice care or death (See Codes to Identify Death).

**Diagnosis**      Diagnosis of asthma or COPD, as defined in the INHALE Population Specification

**Codes to Identify Death**

Description	Discharge Status
Discharge status = Expired	20- Expired, 40- Expired at Home, 41- Expired in a Medical facility, 42- Expired - Place Unknown

**Codes to Identify Visit Type**

Description	CPT	UB Revenue
ED	99281-99285	045x, 0981
Observation Care Services	99217, 99218,99219,99220, 99224,99225,99226, 99234, 99235, 99236	0760, 0762, 0769

**Codes to Identify Diagnosis of Asthma (exacerbation dxs are denoted with \*)**

Asthma Dx	ICD-10 Code
Mild intermittent asthma	J45.2
Mild intermittent asthma, uncomplicated	J45.20
Mild intermittent asthma with (acute) exacerbation*	J45.21
Mild intermittent asthma with status asthmaticus*	J45.22
Mild persistent asthma	J45.3
Mild persistent asthma, uncomplicated	J45.30
Mild persistent asthma with (acute) exacerbation*	J45.31
Mild persistent asthma with status asthmaticus*	J45.32
Moderate persistent asthma	J45.4
Moderate persistent asthma, uncomplicated	J45.40
Moderate persistent asthma with (acute) exacerbation*	J45.41
Moderate persistent asthma with status asthmaticus*	J45.42
Severe persistent asthma	J45.5
Severe persistent asthma, uncomplicated	J45.50
Severe persistent asthma with (acute) exacerbation*	J45.51
Severe persistent asthma with status asthmaticus*	J45.52
Unspecified asthma with (acute) exacerbation*	J45.901
Unspecified asthma with status asthmaticus*	J45.902
Unspecified asthma, uncomplicated	J45.909
Exercise induced bronchospasm	J45.990
Cough variant asthma	J45.991
Other asthma	J45.998
Eosinophilic asthma	J82.83

**Codes to Identify Diagnosis of COPD (exacerbation dxs are denoted with \*)**

Primary DX of COPD	ICD-10 Code(s)
Simple chronic bronchitis	J41.0
Mucopurulent chronic bronchitis	J41.1
Mixed simple and mucopurulent chronic bronchitis	J41.8
Unspecified chronic bronchitis	J42
Unilateral pulmonary emphysema [MacLeod's syndrome]	J43.0
Panlobular emphysema	J43.1
Centrilobular emphysema	J43.2
Other emphysema	J43.8
Emphysema, unspecified	J43.9
Chronic obstructive pulmonary disease with (acute) lower respiratory infection*	J44.0
Chronic obstructive pulmonary disease with (acute) exacerbation*	J44.1
Chronic obstructive pulmonary disease, unspecified	J44.9

**Specification**

**Denominator** Eligible Population defined above, excluding conditions specified below.

**Numerator** Patients in the denominator discharged from the ED or Observation (see Codes to Identify Visit Type) with a primary diagnosis of disease or a secondary diagnosis of disease exacerbation in the measurement year (see Codes to Identify Diagnosis of Asthma or COPD).

**Exclusions**

1. Exclude ED visits where the patient is admitted to the hospital for observation or inpatient rather than discharged; exclude observation visits where patient is admitted to inpatient.
2. Patients with a diagnosis in the Codes to Identify Exclusions table during the measurement year or the year prior are excluded
3. Hospice patient claims (see Additional Exclusions), after hospice/palliative care begins

**Codes to Identify Exclusions**

Exclusions for Asthma	
Condition Name	ICD-10 Code(s)
Cystic Fibrosis	E84.0, E84.1, E84.8, E84.9
Interstitial Lung Disease	J84, J84.0, J84.01, J84.02, J84.03, J84.09, J84.1, J84.10, J84.11, J84.111, J84.112, J84.113, J84.114, J84.115, J84.116, J84.117, J84.17, J84.170, J84.178, J84.2, J84.8, J84.81, J84.82, J84.83, J84.84, J84.841, J84.842, J84.843, J84.848, J84.89, J84.9
Primary Pulmonary Hypertension	I27.0, I227.20, I27.23, I27.24, I27.29
Sarcoidosis	D86.0, D86.9
Other Chronic Lung Disease: Patient with other chronic lung disease that are not asthma or asthma/COPD overlap	J98.4, J98.9
Lung Transplant	Z94.2, Z94.3
Bronchiectasis (Pediatric asthma only)	J47.0, J47.1, J47.9
Asthma (COPD only)	J45.2, J45.20, J45.21, J45.22, J45.3, J45.30, J45.31, J45.32, J45.0, J45.40, J45.41, J45.42, J45.5, J45.50, J45.51, J45.52, J45.901, J45.902, J45.909, J45.990, J45.991, J45.998, J82.83

<p>Exclude claims after first instance of any of these codes</p>	<p>ICD 10: Z51.5 (palliative care)</p> <p>UB rev: 0115,0125,0135,0145, 0155,0235,0650,0651,0652,0655,0656, 0657,0658,0659</p> <p>Type of Bill: 810,811,812,813,814, 815,817,818,819,820,821,822,823,824,825,827,828,829</p> <p>Place of service: 34</p> <p>CPT: G0182,G9473,G9474,G9475, G9476,G9477,G9478,G9479,Q5003,Q5004,Q5005,Q5006,Q5007,Q5008,Q5010,S9126,T2042,T2043,T2044,T2045,T2046,99377,99378</p> <p>Discharge status: 50 Hospice - Home; 51 Hospice - Medical Facility (Certified)</p>
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**Notes**

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- Levels of analysis: PO, practice