

Asthma (Adult or Pediatric) or COPD

Hospital Discharge

Description

The percentage of patients who were identified as having asthma (pediatric or adult) or COPD who were discharged from the hospital 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 inpatient hospitalization with a primary diagnosis of disease or a secondary diagnosis of disease exacerbation in the measurement year (numerator divided by denominator).

Definitions

Inpatient Hospital Discharge Patient treated in the hospital inpatient setting as indicated by claims codes

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 - FACILITY BILLS ONLY

| Description | CPT | Type of Bill + DRG + UBRev criteria | UB Revenue |
|---------------------------|---|--|--|
| Inpatient Hospitalization | 99221-99226, 99231-99233, 99234-99236, 99238- 9923999221- 99223, 99231- 99233, 99238, 99239, 99251- 99255, 99291 | if TYPE_OF_BILL starts with 11 or 12' and DRG exists and is not in ('945', '946', '949', '950') and REVENUE_CODE not in ('0118', '0128', '0138', '0148', '0158') | 0100, 011X, 0120-0124, 0126-0129, 0130-0134, 0136-0139, 0140-0144, 0146-0149, 0150-0154, 0156-0159, 0160, 0164, 0167, 0169, 0170-0174, 0179, 0190-0194, 0199 |

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 hospital (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. Patients with a diagnosis in the Codes to Identify Exclusions table during the measurement year or the year prior are excluded.
2. 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 |

Additional Exclusions

Codes to identify Hospice Care

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|--|--|
| <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