

COPD

Instruction in, and demonstration of, proper use of new respiratory medication delivery device

Description

Percentage of adults ages 40 years and older who were identified as having COPD with at least one claim for inhaler education billing code CPT 94664 in the measurement year. A higher proportion indicates better performance as reflected by appropriate instruction and use.

Calculation

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

The percentage of eligible adults who have at least one claim for CPT 94664 in the measurement year (Instructed numerator divided by denominator).

Definitions

CPT 94664 Demonstration and/or evaluation of patient utilization of an aerosol generator, nebulizer, metered dose inhaler or Intermittent Positive Pressure Breathing device.

Eligible Population

Ages Patients age 40 and older at the start of the measurement year.
Enrollment Continuous enrollment during both the measurement year and the year prior to the measurement year.
Diagnosis Diagnosis of COPD in the measurement year or the year prior (see COPD Population Specifications).

Codes to Identify Diagnosis of COPD

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 that have at least one claim for inhaler education billing code CPT 94664 in the measurement year.

Exclusions

COPD patients with prior diagnoses listed below and those under hospice care or who died during the measurement year are excluded.

Codes to Identify Exclusions

Lung transplant	Z94.2, Z94.3
Cystic Fibrosis	E84.0, E84.1, E84.8, E84.9
Sarcoidosis	D86.0, D86.9
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
Other Chronic Lung Disease	J98.4, J89.9
Asthma	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
Hospice/Palliative care or Discharge status=Expired	<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); 20- Expired, 40- Expired at Home, 41- Expired in a Medical facility, 42- Expired - Place Unknown</p>

Notes

- Levels of analysis: PO, practice

References

- Global Initiative for Chronic Obstructive Lung Disease (GOLD) 2022 GOLD Reports:
<https://goldcopd.org/2022-gold-reports-2/>
- UpToDate: Patient education: Inhaler techniques in adults (Beyond the Basics):
<https://www.uptodate.com/contents/inhaler-techniques-in-adults-beyond-the-basics>