

Chronic Obstructive Pulmonary Disease (COPD) or Asthma in Older Adults Admission Rate Technical Specifications

Prevention Quality Indicators #5 (PQI #5)

AHRQ Quality Indicators™, Version 4.5, May 2013

Area-Level Indicator

Type of Score: Rate

Description

Admissions with a principal diagnosis of chronic obstructive pulmonary disease (COPD) or asthma per 100,000 population, ages 40 years and older. Excludes obstetric admissions and transfers from other institutions.

[NOTE: The software provides the rate per population. However, common practice reports the measure as per 100,000 population. The user must multiply the rate obtained from the software by 100,000 to report admissions per 100,000 population.]

Numerator

Discharges, for patients ages 40 years and older, with either

- a principal ICD-9-CM diagnosis code for COPD (excluding acute bronchitis); or
- a principal ICD-9-CM diagnosis code for asthma; or
- a principal ICD-9-CM diagnosis code for acute bronchitis and any secondary ICD-9-CM diagnosis codes for COPD (excluding acute bronchitis).

[NOTE: By definition, discharges with a principal diagnosis of COPD, asthma, or acute bronchitis are precluded from an assignment of MDC 14 by grouper software. Thus, obstetric discharges should not be considered in the PQI rate, though the AHRQ QI™ software does not explicitly exclude obstetric cases.]

ICD-9-CM COPD (excluding acute bronchitis) diagnosis codes¹:

4910	SIMPLE CHR BRONCHITIS	4920	EMPHYSEMATOUS BLEB
4911	MUCOPURUL CHR BRONCHITIS	4928	EMPHYSEMA NEC
49120	OBST CHR BRONC W/O EXAC	<i>494</i>	<i>BRONCHIECTASIS</i>
49121	OBS CHR BRONC W(AC) EXAC	4940	BRONCHIECTAS W/O AC EXAC
4918	CHRONIC BRONCHITIS NEC	4941	BRONCHIECTASIS W AC EXAC
4919	CHRONIC BRONCHITIS NOS	496	CHR AIRWAY OBSTRUCT NEC

¹ The procedure or diagnosis codes are continuously updated. The current list of ICD-9-CM codes is valid for October 2012 through September 2013. Italicized codes are not active in Fiscal Year 2013.

ICD-9-CM Asthma diagnosis codes:

49300	EXTRINSIC ASTHMA NOS	49321	CH OB ASTHMA W STAT ASTH
49301	EXT ASTHMA W STATUS ASTH	49322	CH OBST ASTH W (AC) EXAC
49302	EXT ASTHMA W(ACUTE) EXAC	49381	EXERCSE IND BRONCHOSPASM
49310	INTRINSIC ASTHMA NOS	49382	COUGH VARIANT ASTHMA
49311	INT ASTHMA W STATUS ASTH	49390	ASTHMA NOS
49312	INT ASTHMA W (AC) EXAC	49391	ASTHMA W STATUS ASTHMAT
49320	CHRONIC OBST ASTHMA NOS	49392	ASTHMA NOS W (AC) EXAC

ICD-9-CM Acute bronchitis diagnosis codes:

4660	ACUTE BRONCHITIS	490	BRONCHITIS NOS
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Exclude cases:

- with any-listed ICD-9-CM diagnosis codes for cystic fibrosis and anomalies of the respiratory system
- transfer from a hospital (different facility)
- transfer from a Skilled Nursing Facility (SNF) or Intermediate Care Facility (ICF)
- transfer from another health care facility
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), principal diagnosis (DX1=missing), or county (PSTCO=missing)

See *Prevention Quality Indicators Appendices*:

- Appendix A – Admission Codes for Transfers

ICD-9-CM Cystic fibrosis and anomalies of the respiratory system diagnosis codes:

27700	CYSTIC FIBROS W/O ILEUS	7483	LARYNGOTRACH ANOMALY NEC
27701	CYSTIC FIBROS W ILEUS	7484	CONGENITAL CYSTIC LUNG
27702	CYSTIC FIBROS W PUL MAN	7485	AGENESIS OF LUNG
27703	CYSTIC FIBROSIS W GI MAN	74860	LUNG ANOMALY NOS
27709	CYSTIC FIBROSIS NEC	74861	CONGEN BRONCHIECTASIS
51661	NEUROEND CELL HYPRPL INF	74869	LUNG ANOMALY NEC
51662	PULM INTERSTITL GLYCOGEN	7488	RESPIRATORY ANOMALY NEC
51663	SURFACTANT MUTATION LUNG	7489	RESPIRATORY ANOMALY NOS
51664	ALV CAP DYSP W VN MISALN	7503	CONG ESOPH FISTULA/ATRES
51669	OTH INTRST LUNG DIS CHLD	7593	SITUS INVERSUS
74721	ANOMALIES OF AORTIC ARCH	7707	PERINATAL CHR RESP DIS

Denominator

Population ages 40 years and older in metropolitan area[†] or county. Discharges in the numerator are assigned to the denominator based on the metropolitan area or county of the patient residence, not the metropolitan area or county of the hospital where the discharge occurred.

[†] The term “metropolitan area” (MA) was adopted by the U.S. Census in 1990 and referred collectively to metropolitan statistical areas (MSAs), consolidated metropolitan statistical areas (CMSAs) and primary metropolitan statistical areas (PMSAs). In addition, “area” could refer to either 1) FIPS county, 2) modified FIPS county, 3) 1999 OMB Metropolitan Statistical Area or 4) 2003 OMB Metropolitan Statistical Area. Micropolitan Statistical Areas are not used in the QI software.