



**AHRQ Quality Indicators™ (AHRQ QI™)
ICD-9-CM and ICD-10-CM/PCS
Specification Enhanced Version 5.0**

Prevention Quality Indicators #5 (PQI #5)
Chronic Obstructive Pulmonary Disease
(COPD) or Asthma in Older Adults
Admission Rate

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Area-Level Indicator
Type of Score: Rate**

Prepared by:

Agency for Healthcare Research and Quality
U.S. Department of Health and Human Services
540 Gaither Road
Rockville, MD 20850
www.qualityindicators.ahrq.gov

PQI #5 Chronic Obstructive Pulmonary Disease (COPD) or Asthma in Older Adults Admission 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.]

PQI #5 Chronic Obstructive Pulmonary Disease (COPD) or Asthma in Older Adults Admission Rate

NUMERATOR

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

- a principal ICD-9-CM or ICD-10-CM diagnosis code for COPD (excluding acute bronchitis); or
- a principal ICD-9-CM or ICD-10-CM diagnosis code for asthma; or
- a principal ICD-9-CM or ICD-10-CM diagnosis code for acute bronchitis and any secondary ICD-9-CM or ICD-10-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.]

COPD (excluding acute bronchitis) diagnosis codes: (ACCOPDD)

ICD-9-CM	Description	ICD-10-CM	Description
4910	SIMPLE CHR BRONCHITIS	J410	Simple chronic bronchitis
4911	MUCOPURUL CHR BRONCHITIS	J411	Mucopurulent chronic bronchitis
49120	OBS CHR BRNC W/O ACT EXA	J418	Mixed simple and mucopurulent chronic bronchitis
49121	OBS CHR BRNC W ACT EXA	J42	Unspecified chronic bronchitis
49122	OBS CHR BRNC W AC BRNC	J430	Unilateral pulmonary emphysema [MacLeod's syndrome]
4918	CHRONIC BRONCHITIS NEC	J431	Panlobular emphysema
4919	CHRONIC BRONCHITIS NOS	J432	Centrilobular emphysema
4920	EMPHYSEMATOUS BLEB	J438	Other emphysema
4928	EMPHYSEMA NEC	J439	Emphysema, unspecified
494	BRONCHIECTASIS	J440	Chronic obstructive pulmonary disease with acute lower respiratory infection
4940	BRONCHIECTAS W/O AC EXAC	J441	Chronic obstructive pulmonary disease with (acute) exacerbation
4941	BRONCHIECTASIS W AC EXAC	J449	Chronic obstructive pulmonary disease, unspecified

496	CHR AIRWAY OBSTRUCT NEC	J470	Bronchiectasis with acute lower respiratory infection
		J471	Bronchiectasis with (acute) exacerbation
		J479	Bronchiectasis, uncomplicated

Asthma diagnosis codes: (ACSASTD)

ICD-9-CM	Description	ICD-10-CM	Description
49300	EXT ASTHMA W/O STAT ASTH	J4521	Mild intermittent asthma with (acute) exacerbation
49301	EXT ASTHMA W STATUS ASTH	J4522	Mild intermittent asthma with status asthmaticus
49302	EXT ASTHMA W ACUTE EXAC	J4531	Mild persistent asthma with (acute) exacerbation
49310	INT ASTHMA W/O STAT ASTH	J4532	Mild persistent asthma with status asthmaticus
49311	INT ASTHMA W STATUS ASTH	J4541	Moderate persistent asthma with (acute) exacerbation
49312	INT ASTHMA W ACUTE EXAC	J4542	Moderate persistent asthma with status asthmaticus
49320	CH OB ASTH W/O STAT ASTH	J4551	Severe persistent asthma with (acute) exacerbation
49321	CH OB ASTHMA W STAT ASTH	J4552	Severe persistent asthma with status asthmaticus
49322	CH OBS ASTH W ACUTE EXAC	J45901	Unspecified asthma with (acute) exacerbation
49381	EXERCSE IND BRONCHOSPASM	J45902	Unspecified asthma with status asthmaticus
49382	COUGH VARIANT ASTHMA	J45990	Exercise induced bronchospasm
49390	ASTHMA W/O STATUS ASTHM	J45991	Cough variant asthma
49391	ASTHMA W STATUS ASTHMAT	J45998	Other asthma
49392	ASTHMA W ACUTE EXACERBTN		

Acute bronchitis diagnosis codes: (ACCPD2D)

ICD-9-CM	Description	ICD-10-CM	Description
4660	ACUTE BRONCHITIS	J200	Acute bronchitis due to Mycoplasma pneumoniae
490	BRONCHITIS NOS	J201	Acute bronchitis due to Hemophilus influenzae
		J202	Acute bronchitis due to streptococcus
		J203	Acute bronchitis due to coxsackievirus
		J204	Acute bronchitis due to parainfluenza virus
		J205	Acute bronchitis due to respiratory syncytial virus
		J206	Acute bronchitis due to rhinovirus
		J207	Acute bronchitis due to echovirus

J208	Acute bronchitis due to other specified organisms
J209	Acute bronchitis, unspecified
J40	Bronchitis, not specified as acute or chronic

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NUMERATOR EXCLUSIONS

Exclude cases:

- with any-listed ICD-9-CM or ICD-10-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)

[Appendix A – Admission Codes for Transfers](#)

Cystic fibrosis and anomalies of the respiratory system diagnosis codes: (RESPAN)

ICD-9-CM	Description	ICD-10-CM	Description
27700	CYSTIC FIBROS W/O ILEUS	E840	Cystic fibrosis with pulmonary manifestations
27701	CYSTIC FIBROS W ILEUS	E8411	Meconium ileus in cystic fibrosis
27702	CYSTIC FIBROS W PUL MAN	E8419	Cystic fibrosis with other intestinal manifestations
27703	CYSTIC FIBROSIS W GI MAN	E848	Cystic fibrosis with other manifestations
27709	CYSTIC FIBROSIS NEC	E849	Cystic fibrosis, unspecified
51661	NEUROENDOCRINE CELL HYPERPLASIA OF INFANCY	J8483	Surfactant mutations of the lung
51662	PULMONARY INTERSTITIAL GLYCOGENESIS	J84841	Neuroendocrine cell hyperplasia of infancy
51663	SURFACTANT MUTATIONS OF THE LUNG	J84842	Pulmonary interstitial glycogenesis
51664	ALVEOLAR CAPILLARY DYSPLASIA WITH VEIN MISALIGNMENT	J84843	Alveolar capillary dysplasia with vein misalignment
51669	OTHER INTERSTITIAL LUNG DISEASES OF THE CHILDHOOD	J84848	Other interstitial lung diseases of childhood
74721	ANOMALIES OF AORTIC ARCH	P270	Wilson-Mikity syndrome

7483	LARYNGOTRACH ANOMALY NEC	P271	Bronchopulmonary dysplasia originating in the perinatal period
7484	CONGENITAL CYSTIC LUNG	P278	Other chronic respiratory diseases originating in the
7485	AGENESIS OF LUNG	P279	Unspecified chronic respiratory disease originating in the perinatal period
74860	LUNG ANOMALY NOS	Q254	Other congenital malformations of aorta
74861	CONGEN BRONCHIECTASIS	Q311	Congenital subglottic stenosis
74869	LUNG ANOMALY NEC	Q312	Laryngeal hypoplasia
7488	RESPIRATORY ANOMALY NEC	Q313	Laryngocele
7489	RESPIRATORY ANOMALY NOS	Q315	Congenital laryngomalacia
7503	CONG ESOPH FISTULA/ATRES	Q318	Other congenital malformations of larynx
7593	SITUS INVERSUS	Q319	Congenital malformation of larynx, unspecified
7707	PERINATAL CHR RESP DIS	Q320	Congenital tracheomalacia
		Q321	Other congenital malformations of trachea
		Q322	Congenital bronchomalacia
		Q323	Congenital stenosis of bronchus
		Q324	Other congenital malformations of bronchus
		Q330	Congenital cystic lung
		Q331	Accessory lobe of lung
		Q332	Sequestration of lung
		Q333	Agenesis of lung
		Q334	Congenital bronchiectasis
		Q335	Ectopic tissue in lung
		Q336	Congenital hypoplasia and dysplasia of lung
		Q338	Other congenital malformations of lung
		Q339	Congenital malformation of lung, unspecified
		Q340	Anomaly of pleura
		Q341	Congenital cyst of mediastinum
		Q348	Other specified congenital malformations of respiratory system

Q349	Congenital malformation of respiratory system, unspecified
Q390	Atresia of esophagus without fistula
Q391	Atresia of esophagus with tracheo-esophageal fistula
Q392	Congenital tracheo-esophageal fistula without atresia
Q393	Congenital stenosis and stricture of esophagus
Q394	Esophageal web
Q893	Situs inversus

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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.

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DENOMINATOR EXCLUSIONS
<i>Not Applicable</i>