



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

**Pediatric Quality Indicators #14 (PDI #14)
Asthma Admission Rate**

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Area-Level Indicator
Type of Score: Rate**

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PDI #14 Asthma Admission Rate

DESCRIPTION

Admissions with a principal diagnosis of asthma per 100,000 population, ages 2 through 17 years. Excludes cases with a diagnosis code for cystic fibrosis and anomalies of the respiratory system, 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.]

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NUMERATOR			
Discharges, for patients ages 2 through 17 years, with a principal ICD-9-CM or ICD-10-CM diagnosis code for asthma.			
<i>Asthma diagnosis codes: (ACSASTD)</i>			
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		

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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
- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), principal diagnosis (DX1=missing), or county (PSTCO=missing)

[Appendix J – 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 perinatal period
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 2 through 17 years in metropolitan area¹ 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.

¹. 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>
