Asthma Admission Rate

Pediatric Quality Indicators #14
Technical Specifications
Area-Level Indicator
AHRQ Quality Indicators, Version 4.3, August 2011

Version 4.3a is a maintenance release of Version 4.3. The differences between the two versions are:

- Version 4.3a includes Version 29 of the Limited License edition of the 3M™ APR-DRG Grouper. This grouper corrects an issue found in Version 28 of the Limited License edition of the 3M™ APR-DRG Grouper. The grouper is only used with the Inpatient Quality Indicator (IQI) mortality measures. Version 4.3 includes Version 28 of the Limited License edition of the 3M™ APR-DRG Grouper, which was incorrectly assigning a Risk of Mortality (ROM) subclass for cases dated on or after 10/1/10.
- Version 4.3a allows users to calculate area-level indicators for years 2010 and 2011, correcting an issue previously identified in Version 4.3.

All other aspects of the software, including measure specifications, remain the same. Thus this document (related to Version 4.3) remains unchanged.

Numerator

Discharges ages 2 to 17 years with ICD-9-CM principal diagnosis code of asthma.

ICD-9-CM Asthma diagnosis codes:

49300	EXT ASTHMA W/O STAT ASTH	49322	CH OBS ASTH W ACUTE EXAC (OCT00)
49301	EXT ASTHMA W STATUS ASTH	49381	EXERCSE IND BRONCHOSPASM (OCT03)
49302	EXT ASTHMA W ACUTE EXAC (OCT00)	49382	COUGH VARIANT ASTHMA (OCT03)
49310	INT ASTHMA W/O STAT ASTH	49390	ASTHMA W/O STATUS ASTHM
49311	INT ASTHMA W STATUS ASTH	49391	ASTHMA W STATUS ASTHMAT
49312	INT ASTHMA W ACUTE EXAC (OCT00)	49392	ASTHMA W ACUTE EXACERBTN (OCT00)
49320	CH OB ASTH W/O STAT ASTH		
49321	CH OB ASTHMA W STAT ASTH		

Exclude cases:

- MDC 14 (pregnancy, childbirth, and puerperium)
- 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 any diagnosis code for cystic fibrosis and anomalies of the respiratory system
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing), county (PSTCO=missing)

See *Pediatric Quality Indicators Appendices*:

- Appendix J – Admission Codes for Transfers

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

27700	CYSTIC FIBROS W/O ILEUS	27701	CYSTIC FIBROS W ILEUS

27702	CYSTIC FIBROS W PUL MAN
27703	CYSTIC FIBROSIS W GI MAN
27709	CYSTIC FIBROSIS NEC
74721	ANOMALIES OF AORTIC ARCH
7483	LARYNGOTRACH ANOMALY NEC
7484	CONGENITAL CYSTIC LUNG
7485	AGENESIS OF LUNG
74860	LUNG ANOMALY NOS
74861	CONGEN BRONCHIECTASIS
74869	LUNG ANOMALY NEC
7488	RESPIRATORY ANOMALY NEC
7489	RESPIRATORY ANOMALY NOS
7503	CONG ESOPH FISTULA/ATRES
7593	SITUS INVERSUS
7707	CHRONIC RESPIRATORY DISEASE ARISING IN THE PERINATAL PERIOD

Denominator

Discharges in the numerator are assigned to the denominator based on the Metro Area[1] or county of the patient residence, not the Metro 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 3) 2003 OMB Metropolitan Statistical Area. Micropolitan Statistical Areas are not used in the QI software.