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

Prevention Quality Indicators #5
Technical Specifications
Area-Level Indicator
AHRQ Quality Indicators, Version 4.3, August 2011

Numerator

All discharges of age 40 years and older with ICD-9-CM principal diagnosis code for COPD or asthma in adults age 40 years and older.

ICD-9-CM COPD diagnosis codes:
4660 AC BRONCHITIS*
490 BRONCHITIS NOS*
4910 SIMPLE CHR BRONCHITIS
4911 MUCOPURUL CHR BRONCHITIS
49120 OBS CHR BRNC W/O ACT EXA
49121 OBS CHR BRNC W ACT EXA
4918 CHRONIC BRONCHITIS NEC
*Must be accompanied by a secondary diagnosis code of COPD.

ICD-9-CM Asthma diagnosis codes:
49300 EXT ASTHMA W/O STAT ASTH
49301 EXT ASTHMA W STATUS ASTH
49302 EXT ASTHMA W ACUTE EXAC (OCT00)
49310 INT ASTHMA W/O STAT ASTH
49311 INT ASTHMA W STATUS ASTH
49312 INT ASTHMA W ACUTE EXAC (OCT00)
49320 CH OB ASTH W/O STAT ASTH
49321 CH OB ASTHMA W STAT ASTH
49322 CH OBS ASTH W ACUTE EXAC (OCT00)
49381 EXERCSE IND BRONCHOSPASM (OCT03)
49382 COUGH VARIANT ASTHMA (OCT03)
49390 ASTHMA W/O STATUS ASTHM
49391 ASTHMA W STATUS ASTHMAT
49392 ASTHMA W ACUTE EXACTERBTN (OCT00)

Exclude cases:
- 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) or principal diagnosis (DX1=missing), county (PSTCO=missing)

See Prevention Quality Indicators Appendices:
- Appendix A – Admission Codes for Transfers
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.