



Prevention Quality Indicator 11 (PQI 11) Community-Acquired Pneumonia Admission Rate

July 2019

Area-Level Indicator

Type of Score: Rate

Prepared by:

Agency for Healthcare Research and Quality

U.S. Department of Health and Human Services

www.qualityindicators.ahrq.gov

DESCRIPTION

Discharges with a principal diagnosis of community acquired bacterial pneumonia per 100,000 population, age 18 or older. Excludes sickle cell or hemoglobin-S admissions, other indications of immunocompromised state admissions, 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 18 years and older, with a principal ICD-10-CM diagnosis code for bacterial pneumonia (**ACSBACD** *).

[NOTE: Obstetric discharges are not included in the PQI rate for PQI 11, though the AHRQ QI™ software does not explicitly exclude obstetric cases. By definition, discharges with a principal diagnosis of bacterial pneumonia exclude obstetric discharges, because the principle diagnosis for an obstetric discharge would identify it as obstetric, and no such diagnoses are included in the set of qualifying diagnoses.]

NUMERATOR EXCLUSIONS

Exclude cases:

- with admission source for transferred from a different hospital or other health care facility (*Appendix A*) (UB04 Admission source - 2, 3)
- with a point of origin code for transfer from a hospital, skilled nursing facility (SNF) or intermediate care facility (ICF), or other healthcare facility (*Appendix A*) (UB04 Point of Origin - 4, 5, 6)
- with any-listed ICD-10-CM diagnosis codes for sickle cell anemia or HB-S disease (*ACSBA2D* *)
- with any-listed ICD-10-CM diagnosis codes (*Appendix C: IMMUNID*) or any-listed ICD-10-PCS procedure codes for immunocompromised state (*Appendix C: IMMUNIP*)
- 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*](#)

[*Appendix C - Immunocompromised State Diagnosis and Procedure Codes*](#)

DENOMINATOR

Population ages 18 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.

* See below for code list

Community acquired bacterial pneumonia diagnosis codes: (ACSBACD)

J13	Pneumonia due to Streptococcus pneumoniae	J159	Unspecified bacterial pneumonia
J14	Pneumonia due to Hemophilus influenzae	J160	Chlamydial pneumonia
J15211	Pneumonia due to Methicillin susceptible Staphylococcus aureus	J168	Pneumonia due to other specified infectious organisms
J15212	Pneumonia due to Methicillin resistant Staphylococcus aureus	J180	Bronchopneumonia, unspecified organism
J153	Pneumonia due to streptococcus, group B	J181	Lobar pneumonia, unspecified organism
J154	Pneumonia due to other streptococci	J188	Other pneumonia, unspecified organism
J157	Pneumonia due to Mycoplasma pneumoniae	J189	Pneumonia, unspecified organism

Sickle cell anemia or HB-S disease diagnosis codes: (ACSBA2D)

D5700	Hb-SS disease with crisis, unspecified	D5740	Sickle-cell thalassemia without crisis
D5701	Hb-SS disease with acute chest syndrome	D57411	Sickle-cell thalassemia with acute chest syndrome
D5702	Hb-SS disease with splenic sequestration	D57412	Sickle-cell thalassemia with splenic sequestration
D571	Sickle-cell disease without crisis	D57419	Sickle-cell thalassemia with crisis, unspecified
D5720	Sickle-cell/Hb-C disease without crisis	D5780	Other sickle-cell disorders without crisis
D57211	Sickle-cell/Hb-C disease with acute chest syndrome	D57811	Other sickle-cell disorders with acute chest syndrome
D57212	Sickle-cell/Hb-C disease with splenic sequestration	D57812	Other sickle-cell disorders with splenic sequestration
D57219	Sickle-cell/Hb-C disease with crisis, unspecified	D57819	Other sickle-cell disorders with crisis, unspecified