



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

Prevention Quality Indicators #11 (PQI #11)
Bacterial Pneumonia Admission Rate

**October 2015
Area-Level Indicator
Type of Score: Rate**

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PQI #11 Bacterial Pneumonia Admission Rate

DESCRIPTION

Admissions with a principal diagnosis of bacterial pneumonia per 100,000 population, ages 18 years and 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.]

PQI #11 Bacterial Pneumonia Admission Rate

NUMERATOR

Discharges, for patients ages 18 years and older, with a principal ICD-9-CM or ICD-10-CM diagnosis code for bacterial pneumonia.

[NOTE: By definition, discharges with a principal diagnosis of bacterial pneumonia 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.]

Bacterial pneumonia diagnosis codes: (ACSBACD)

ICD-9-CM	Description	ICD-10-CM	Description
481	PNEUMOCOCCAL PNEUMONIA	J13	Pneumonia due to Streptococcus pneumoniae
4822	H.INFLUENZAE PNEUMONIA	J14	Pneumonia due to Hemophilus influenzae
48230	STREP PNEUMONIA UNSPEC	J15211	Pneumonia due to Methicillin susceptible Staphylococcus aureus
48231	GRP A STREP PNEUMONIA	J15212	Pneumonia due to Methicillin resistant Staphylococcus aureus
48232	GRP B STREP PNEUMONIA	J153	Pneumonia due to streptococcus, group B
48239	OTH STREP PNEUMONIA	J154	Pneumonia due to other streptococci
48241	METH SUS PNEUM D/T STAPH	J157	Pneumonia due to Mycoplasma pneumoniae
48242	METH RES PNEU D/T STAPH	J159	Unspecified bacterial pneumonia
4829	BACTERIAL PNEUMONIA NOS	J160	Chlamydial pneumonia
4830	MYCOPLASMA PNEUMONIA	J168	Pneumonia due to other specified infectious organisms
4831	CHLAMYDIA PNEUMONIA	J180	Bronchopneumonia, unspecified organism
4838	OTH SPEC ORG PNEUMONIA	J181	Lobar pneumonia, unspecified organism
485	BRONCOPNEUMONIA ORG NOS	J188	Other pneumonia, unspecified organism
486	PNEUMONIA, ORGANISM NOS	J189	Pneumonia, unspecified organism

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NUMERATOR EXCLUSIONS

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
- with any-listed ICD-9-CM or ICD-10-CM diagnosis codes for sickle cell anemia or HB-S disease
- with any-listed ICD-9-CM or ICD-10-CM diagnosis codes or any-listed ICD-9-CM or ICD-10-PCS procedure codes for immunocompromised state
- 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](#)

Sickle cell anemia or HB-S disease diagnosis codes: (ACSB A2D)

ICD-9-CM	Description	ICD-10-CM	Description
28241	THLASEMA HB-S W/O CRISIS	D5700	Hb-SS disease with crisis, unspecified
28242	THLASSEMIA HB-S W CRISIS	D5701	Hb-SS disease with acute chest syndrome
28260	SICKLE-CELL ANEMIA NOS	D5702	Hb-SS disease with splenic sequestration
28261	HB-S DISEASE W/O CRISIS	D571	Sickle-cell disease without crisis
28262	HB-S DISEASE WITH CRISIS	D5720	Sickle-cell/Hb-C disease without crisis
28263	SICKLE-CELL/HB-C DISEASE	D57211	Sickle-cell/Hb-C disease with acute chest syndrome
28264	HB-S/HB-C DIS W CRISIS	D57212	Sickle-cell/Hb-C disease with splenic sequestration
28268	HB-S DIS W/O CRISIS NEC	D57219	Sickle-cell/Hb-C disease with crisis, unspecified
28269	SICKLE-CELL ANEMIA NEC	D5740	Sickle-cell thalassemia without crisis
		D57411	Sickle-cell thalassemia with acute chest syndrome
		D57412	Sickle-cell thalassemia with splenic sequestration

D57419	Sickle-cell thalassemia with crisis, unspecified
D5780	Other sickle-cell disorders without crisis
D57811	Other sickle-cell disorders with acute chest syndrome
D57812	Other sickle-cell disorders with splenic sequestration
D57819	Other sickle-cell disorders with crisis, unspecified

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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.
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† 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.

PQI #11 Bacterial Pneumonia Admission Rate

DENOMINATOR EXCLUSIONS
<i>Not Applicable</i>