

# Urinary Tract Infection Admission Rate Technical Specifications

## Prevention Quality Indicators #12 (PQI #12)

AHRQ Quality Indicators™, Version 4.5, May 2013

Area-Level Indicator

Type of Score: Rate

### Description

Admissions with a principal diagnosis of urinary tract infection per 100,000 population, ages 18 years and older. Excludes kidney or urinary tract disorder 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-9-CM diagnosis code for urinary tract infection.

*[NOTE: By definition, discharges with a principal diagnosis of urinary tract infection 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.]*

#### ICD-9-CM Urinary tract infection diagnosis codes:

59010	AC PYELONEPHRITIS NOS	59081	PYELONEPHRIT IN OTH DIS
59011	AC PYELONEPHR W MED NECR	5909	INFECTION OF KIDNEY NOS
5902	RENAL/PERIRENAL ABSCESS	5950	ACUTE CYSTITIS
5903	PYELOURETERITIS CYSTICA	5959	CYSTITIS NOS
59080	PYELONEPHRITIS NOS	5990	URIN TRACT INFECTION NOS

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 diagnosis codes for kidney/urinary tract disorder
- with any-listed ICD-9-CM diagnosis codes or any-listed ICD-9-CM 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)

See *Prevention Quality Indicators Appendices*:

- Appendix A – Admission Codes for Transfers
- Appendix C – Immunocompromised State Diagnosis and Procedure Codes

**ICD-9-CM Kidney/urinary tract disorder diagnosis codes:**

59000	CHR PYELONEPHRITIS NOS	75317	MEDULLARY SPONGE KIDNEY
59001	CHR PYELONEPH W MED NECR	75319	CYSTIC KIDNEY DISEAS NEC
59370	VESCOURETRL RFLUX UNSPCF	75320	OBS DFCT REN PLV&URT NOS
59371	VSCURT RFLX NPHT UNILTRL	75321	CONGEN OBST URTROPLV JNC
59372	VSCOURTL RFLX NPHT BLTRL	75322	CONG OBST URETEROVES JNC
59373	VSCOURTL RFLX W NPHT NOS	75323	CONGENITAL URETEROCELE
7530	RENAL AGENESIS	75329	OBST DEF REN PLV&URT NEC
75310	CYSTIC KIDNEY DISEAS NOS	7533	KIDNEY ANOMALY NEC
75311	CONGENITAL RENAL CYST	7534	URETERAL ANOMALY NEC
75312	POLYCYSTIC KIDNEY NOS	7535	BLADDER EXSTROPHY
75313	POLYCYST KID-AUTOSOM DOM	7536	CONGEN URETHRAL STENOSIS
75314	POLYCYST KID-AUTOSOM REC	7538	CYSTOURETHRAL ANOM NEC
75315	RENAL DYSPLASIA	7539	URINARY ANOMALY NOS
75316	MEDULLARY CYSTIC KIDNEY		

## Denominator

Population ages 18 years and older in metropolitan area<sup>†</sup> 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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<sup>†</sup> 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.