

Urinary Tract Infection Admission Rate

Prevention Quality Indicators #12

Technical Specifications

Area-Level Indicator

AHRQ Quality Indicators, Version 4.4, March 2012

Numerator

All discharges of age 18 years and older with ICD-9-CM principal diagnosis code of urinary tract infection.

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

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- The PQI reference population includes discharges with MDC 14 and age less than 18 years; however, the DRG and MS-DRG grouper logic precludes assignment of MDC 14 for discharge records with a PQI defining principal diagnosis.

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 diagnosis of kidney/urinary tract disorder
- with any diagnosis or procedure code 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

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

Discharges in the numerator are assigned to the denominator based on the Metro Area¹ 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.