

Urinary Tract Infection Admission Rate

Pediatric Quality Indicators #18

Technical Specifications

Area-Level Indicator

AHRQ Quality Indicators, Version 4.4, March 2012

Numerator

All non-maternal discharges ages 3 months through 17 years 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

Exclude cases:

- transfer from other institution
- with any diagnosis code of kidney/urinary tract disorder
- with any diagnosis of high- or intermediate-risk immunocompromised state
- with procedure code for transplant
- with hepatic failure consisting of any diagnosis of cirrhosis (part I) and any diagnosis of hepatic coma or hepatorenal syndrome (part II)
- neonates if age in days is missing
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), principal diagnosis (DX1=missing), or county (PSTCO=missing)

See *Pediatric Quality Indicators Appendices*:

- Appendix F – High-Risk Immunocompromised States
- Appendix G – Intermediate-Risk Immunocompromised States
- Appendix I – Definitions of Neonate, Newborn, Normal Newborn, and Outborn
- Appendix J – Admission Codes for Transfers

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

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

ICD-9-CM Transplant procedure codes¹:

335	<i>LUNG TRANSPLANT</i>	4105	ALLO HEM STEM CT W/O PUR
3350	LUNG TRANSPLANT NOS	4106	CORD BLD STEM CELL TRANS
3351	UNILAT LUNG TRANSPLANT	4107	AUTO HEM STEM CT W PURG
3352	BILAT LUNG TRANSPLANT	4108	ALLO HEM STEM CT W PURG
336	COMB HEART/LUNG TRANSPLA	4109	AUTO BONE MT W PURGING
375	<i>HEART TRANSPLANTATION</i>	5051	AUXILIARY LIVER TRANSPL
3751	HEART TRANSPLANTATION	5059	LIVER TRANSPLANT NEC
410	<i>OPERATIONS ON BONE MAROW AND SPLEEN</i>	5280	PANCREAT TRANSPLANT NOS
4100	BONE MARROW TRNSPLNT NOS	5281	REIMPLANT PANCREATIC TIS
4101	AUTO BONE MT W/O PURG	5282	PANCREATIC HOMOTRANSPLAN
4102	ALO BONE MARROW TRNSPLNT	5283	PANCREATIC HETEROTRANSPL
4103	ALLOGRFT BONE MARROW NOS	5285	ALLOTRNSPLNT ISLETS LANG
4104	AUTO HEM STEM CT W/O PUR	5286	TRNSPLNT ISLETS LANG NOS
		5569	KIDNEY TRANSPLANT NEC

¹ Italicized codes are not active in the current fiscal year.

ICD-9-CM Hepatic failure diagnosis codes – part I:

5712	ALCOHOLIC CIRRHOSIS OF LIVER	5716	BILIARY CIRRHOSIS
5715	CIRRHOSIS OF LIVER NOS		

ICD-9-CM Hepatic failure diagnosis codes – part II:

5722	HEPATIC ENCEPHALOPATHY	5724	HEPATORENAL SYNDROME
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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.