

Urinary Tract Infection Admission Rate

Pediatric Quality Indicators #18

Technical Specifications

Area-Level Indicator

AHRQ Quality Indicators, Version 4.3, August 2011

Version 4.3a is a maintenance release of Version 4.3. The differences between the two versions are:

- Version 4.3a includes Version 29 of the Limited License edition of the 3M™ APR-DRG Grouper. This grouper corrects an issue found in Version 28 of the Limited License edition of the 3M™ APR-DRG Grouper. The grouper is only used with the Inpatient Quality Indicator (IQI) mortality measures. Version 4.3 includes Version 28 of the Limited License edition of the 3M™ APR-DRG Grouper, which was incorrectly assigning a Risk of Mortality (ROM) subclass for cases dated on or after 10/1/10.
- Version 4.3a allows users to calculate area-level indicators for years 2010 and 2011, correcting an issue previously identified in Version 4.3.

All other aspects of the software, including measure specifications, remain the same. Thus this document (related to Version 4.3) remains unchanged.

Numerator

All non-maternal discharges ages 3 months to 17 years with ICD-9-CM principal diagnosis code of urinary tract infection.

ICD-9-CM Urinary tract 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 any procedure code for transplant
- with hepatic failure consisting of any diagnosis of cirrhosis plus a code for hepatic coma or hepatorenal syndrome in any diagnosis field
- neonates if age in days is missing
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing), 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	75317	MEDULLARY SPONGE KIDNEY
59371	VESICOURETERAL REFLUX UNILTRL	75319	CYSTIC KIDNEY DISEAS NEC
59372	VESICOURETERAL REFLUX NPHT BLTRL	75320	OBS DFCT REN PLV&URT NOS
59373	VESICOURETERAL REFLUX W NPHT NOS	75321	CONGEN OBST URTRUPLV JNC
7530	RENAL AGENESIS	75322	CONG OBST URETEROVES JNC
75310	CYSTIC KIDNEY DISEAS NOS	75323	CONGENITAL URETEROCELE
75311	CONGENITAL RENAL CYST	75329	OBST DEF REN PLV&URT NEC
75312	POLYCYSTIC KIDNEY NOS	7533	KIDNEY ANOMALY NEC
75313	POLYCYST KID-AUTOSOM DOM	7534	URETERAL ANOMALY NEC
75314	POLYCYST KID-AUTOSOM REC	7535	EXSTROPHY OF URNIARY BLADDER
75315	RENAL DYSPLASIA	7536	ATRESIA AND STENOSIS OF URETHRA AND BLADDER NECK
75316	MEDULLARY CYSTIC KIDNEY	7538	CYSTOURETHRAL ANOM NEC
		7539	URINARY ANOMALY NOS

ICD-9-CM Transplant procedure codes:

335	LUNG TRANSPLANT	4107	AUTO HEM STEM CT W PURG
3350	LUNG TRANSPLANT NOS	4108	ALLO HEM STEM CT W PURG
3351	UNILAT LUNG TRANSPLANT	4109	AUTO BONE MT W PURGING
3352	BILAT LUNG TRANSPLANT	5051	AUXILIARY LIVER TRANSPL
336	COMBINED HEART-LUNG TRANSPLANTATION	5059	LIVER TRANSPLANT NEC
375	HEART TRANSPLANTATION	5280	PANCREATIC TRANSPLANT, NOS
3751	HEART TRANSPLANTATION	5281	REIMPLANTATION OF PANCREATIC TISSUE
410	OPERATIONS ON BONE MAROW AND SPLEEN	5282	REIMPLANTATION OF PANCREATIC TISSUE
4100	BONE MARROW TRNSPLNT NOS	5283	HETEROTRANSPLANT OF PANCREAS
4101	AUTO BONE MT W/O PURG	5285	ALLOTRANSPLANTATION OF CELLS OF ISLETS OF LINGERHANS
4102	ALO BONE MARROW TRNSPLNT	5286	TRANSPLANTATION OF CELLS OF ISLETS OF LANGERHANS, NOS
4103	ALLOGRFT BONE MARROW NOS	5569	OTHER KIDNEY TRANSPLANTATION
4104	AUTO HEM STEM CT W/O PUR		
4105	ALLO HEM STEM CT W/O PUR		
4106	CORD BLD STEM CELL TRANS		

ICD-9-CM Cirrhosis diagnosis codes – part I:

5712	ALCOHOLIC CIRRHOSIS OF LIVER CIRRHOSIS OF LIVER WITHOUT	5716	BILIARY CIRRHOSIS
5715	MENTION OF ALCOHOL		

ICD-9-CM Hepatic coma/hepatorenal syndrome diagnosis codes – part II:

5722	HEPATIC COMA	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.