Urinary Tract Infection Admission Rate

Prevention Quality Indicators #12
Technical Specifications
Area-Level Indicator
AHRQ Quality Indicators, Version 4.3, August 2011
(Revised September 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[TM] APR-DRG Grouper. This grouper corrects an issue found in Version 28 of the Limited License edition of the 3M[TM] 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[TM] 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 discharges of age 18 years and older with ICD-9-CM principal diagnosis code of urinary tract infection (see below).

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
- MDC 14 (pregnancy, childbirth, and puerperium)
- 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) or principal diagnosis (DX1=missing), 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	75316	MEDULLARY CYSTIC KIDNEY
59001	CHR PYELONEPH W MED NECR	75317	MEDULLARY SPONGE KIDNEY
59370	VESCOURETRL RFLUX UNSPCF	75319	CYSTIC KIDNEY DISEAS NEC
59371	VESICOURETERAL REFLUX UNILTRL	75320	OBS DFCT REN PLV&URT NOS
59372	VESICOURETERAL REFLUX NPHT BLTRL	75321	CONGEN OBST URTROPLV JNC
		75322	CONG OBST URETEROVES JNC
59373	VESICOURETERAL REFLUX W NPHT NOS	75323	CONGENITAL URETEROCELE
		75329	OBST DEF REN PLV&URT NEC
7530	RENAL AGENESIS	7533	KIDNEY ANOMALY NEC
75310	CYSTIC KIDNEY DISEAS NOS	7534	URETERAL ANOMALY NEC
75311	CONGENITAL RENAL CYST	7535	EXSTROPHY OF URNIARY BLADDER
75312	POLYCYSTIC KIDNEY NOS	7536	ATRESIA AND STENOSIS OF URETHRA AND BLADDER NECK
75313	POLYCYST KID-AUTOSOM DOM		
75314	POLYCYST KID-AUTOSOM REC	7538	CYSTOURETHRAL ANOM NEC
75315	RENAL DYSPLASIA	7539	URINARY ANOMALY NOS

Denominator

Discharges in the numerator are assigned to the denominator based on the Metro Area[1] or county of the patient residence, not the Metro Area or county of the hospital where the discharge occurred.

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[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.