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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>59010</td>
<td>AC PYELONEPHRITIS NOS</td>
</tr>
<tr>
<td>59011</td>
<td>AC PYELONEPHR W MED NECR</td>
</tr>
<tr>
<td>5902</td>
<td>RENAL/PERIRENAL ABSCESS</td>
</tr>
<tr>
<td>5903</td>
<td>PYELOURETERITIS CYSTICA</td>
</tr>
<tr>
<td>59080</td>
<td>PYELONEPHRITIS NOS</td>
</tr>
<tr>
<td>59081</td>
<td>PYELONEPHRIT IN OTH DIS</td>
</tr>
<tr>
<td>5909</td>
<td>INFECTION OF KIDNEY NOS</td>
</tr>
<tr>
<td>5950</td>
<td>ACUTE CYSTITIS</td>
</tr>
<tr>
<td>5959</td>
<td>CYSTITIS NOS</td>
</tr>
<tr>
<td>5990</td>
<td>URIN TRACT INFECTION NOS</td>
</tr>
</tbody>
</table>

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 codes:
335  LUNG TRANSPLANT  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  HEART TRANSPLANTATION  5051  AUXILIARY LIVER TRANSPL
3751  HEART TRANSPLANTATION  5059  LIVER TRANSPLANT NEC
410  OPERATIONS ON BONE MARROW AND SPLEEN  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  ALLOTRANSPLNT ISLETS LANG
4104  AUTO HEM STEM CT W/O PUR  5286  TRNSPLNT ISLETS LANG NOS
5569  KIDNEY TRANSPLANT NEC

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

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.

\(^1\) 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.