

Prevention Quality Indicator 12 (PQI 12) Urinary Tract Infection Admission Rate July 2017 Area-Level Indicator Type of Score: Rate

Prepared by:

Agency for Healthcare Research and Quality U.S. Department of Health and Human Services

www.qualityindicators.ahrq.gov

DESCRIPTION

Admissions with a principal diagnosis of urinary tract infection per 100,000 population, ages 18 years and older. Excludes kidney or urinary tract disorder admissions, other indications of immunocompromised state admissions, obstetric admissions, and transfers from other institutions.

[NOTE: The software provides the rate per population. However, common practice reports the measure as per 100,000 population. The user must multiply the rate obtained from the software by 100,000 to report admissions per 100,000 population.]

NUMERATOR

Discharges, for patients ages 18 years and older, with a principal ICD-10-CM diagnosis code for urinary tract infection (*ACSUTID*^{*}).

[NOTE: By definition, discharges with a principal diagnosis of urinary tract infection are precluded from an assignment of MDC 14 by grouper software. Thus, obstetric discharges should not be considered in the PQI rate, though the AHRQ QITM software does not explicitly exclude obstetric cases.]

NUMERATOR EXCLUSIONS

Exclude cases:

- transfer from a hospital (different facility) (Appendix A)
- transfer from a Skilled Nursing Facility (SNF) or Intermediate Care Facility (ICF) (Appendix A)
- transfer from another health care facility (Appendix A)
- with any-listed ICD-10-CM diagnosis codes for kidney/urinary tract disorder (*KIDNEY*^{*})

• with any-listed ICD-10-CM diagnosis codes (*Appendix C*) or any-listed ICD-10-PCS procedure codes for immunocompromised state ((*Appendix C*))

• with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year

(YEAR=missing), principal diagnosis (DX1=missing), or county (PSTCO=missing)

<u>Appendix A – Admission Codes for Transfers</u> <u>Appendix C - Immunocompromised State Diagnosis and Procedure Codes</u>

DENOMINATOR

Population ages 18 years and older in metropolitan area†or county. Discharges in the numerator are assigned to the denominator based on the metropolitan area or county of the patient residence, not the metropolitan area or county of the hospital where the discharge occurred.

[†] 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 4) 2003 OMB Metropolitan Statistical Area. Micropolitan Statistical Areas are not used in the QI software.

* See below for code list

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Urinary tract infection diagnosis codes: (ACSUTID)

N10	Acute tubulo-interstitial nephritis	N2885	Pyeloureteritis cystica
N119	Chronic tubulo-interstitial nephritis, unspecified	N2886	Ureteritis cystica
N12	Tubulo-interstitial nephritis, not specified as acute or chronic	N3000	Acute cystitis without hematuria
N151	Renal and perinephric abscess	N3001	Acute cystitis with hematuria
N159	Renal tubulo-interstitial disease, unspecified	N3090	Cystitis, unspecified without hematuria
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	N3091	Cystitis, unspecified with hematuria
N2884	Pyelitis cystica	N390	Urinary tract infection, site not specified

Kidney or urinary tract disorder diagnosis codes: (KIDNEY)

N11	0 Nonobstructive reflux-associated chronic pyelonephritis	Q6231	Congenit
N11		Q6232	Cecouret
N11		Q6239	Other obs ureter
N11	9 Chronic tubulo-interstitial nephritis, unspecified	Q624	Agenesis
N13	0 Hydronephrosis with ureteropelvic junction obstruction	Q625	Duplicati
N13	6 Pyonephrosis	Q6260	Malposit
N13′	70 Vesicoureteral-reflux, unspecified	Q6261	Deviation
N13'	71 Vesicoureteral-reflux without reflux nephropathy	Q6262	Displace
N13'	721 Vesicoureteral-reflux with reflux nephropathy without hydroureter, unilateral	Q6263	Anomalo
N13'	without hydroureter, bilateral	Q6269	Other ma
N13′	without hydroureter, unspecified	Q627	Congenit
N13′	with hydroureter, unilateral	Q628	Other con
N13′	with hydroureter, bilateral	Q630	Accessor
N13'	with hydroureter, unspecified	Q631	Lobulated
N13		Q632	Ectopic k
Q60	-	Q633	Hyperpla
Q60	-	Q638	Other spe kidney
Q602		Q639	Congenit unspecifi
Q60		Q6410	Exstroph
Q604	4 Renal hypoplasia, bilateral	Q6411	Supraves
Q60	5 Renal hypoplasia, unspecified	Q6412	Cloacal e
Q60	6 Potter's syndrome	Q6419	Other exe
Q61	00 Congenital renal cyst, unspecified	Q642	Congenit
Q61	01 Congenital single renal cyst	Q6431	Congenit
Q61	02 Congenital multiple renal cysts	Q6432	Congenit
Q61	11 Cystic dilatation of collecting ducts	Q6433	Congenit
Q61	19 Other polycystic kidney, infantile type	Q6439	Other atro bladder n
Q612	2 Polycystic kidney, adult type	Q645	Congenit
Q61	3 Polycystic kidney, unspecified	Q646	Congenit
Q614		Q6470	Unspecif bladder a
Q61	5 Medullary cystic kidney	Q6471	Congenit
Q61		Q6472	Congenit

Q6231	Congenital ureterocele, orthotopic
Q6232	Cecoureterocele
Q6239	Other obstructive defects of renal pelvis and
	ureter
Q624	Agenesis of ureter
Q625	Duplication of ureter
Q6260	Malposition of ureter, unspecified
Q6261	Deviation of ureter
Q6262	Displacement of ureter
Q6263	Anomalous implantation of ureter
Q6269	Other malposition of ureter
Q627	Congenital vesico-uretero-renal reflux
Q628	Other congenital malformations of ureter
Q630	Accessory kidney
Q631	Lobulated, fused and horseshoe kidney
Q632	Ectopic kidney
Q633	Hyperplastic and giant kidney
Q638	Other specified congenital malformations of kidney
Q639	Congenital malformation of kidney, unspecified
Q6410	Exstrophy of urinary bladder, unspecified
Q6411	Supravesical fissure of urinary bladder
Q6412	Cloacal extrophy of urinary bladder
Q6419	Other exstrophy of urinary bladder
Q642	Congenital posterior urethral valves
Q6431	Congenital bladder neck obstruction
Q6432	Congenital stricture of urethra
Q6433	Congenital stricture of urinary meatus
Q6439	Other atresia and stenosis of urethra and bladder neck
Q645	Congenital absence of bladder and urethra
Q646	Congenital diverticulum of bladder
Q6470	Unspecified congenital malformation of
Q6471	bladder and urethra Congenital prolapse of urethra
Q6471 Q6472	Congenital prolapse of urenna Congenital prolapse of urinary meatus
V0+12	Congenital protapse of utiliary meatus

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Q619	Cystic kidney disease, unspecified
Q620	Congenital hydronephrosis
Q6210	Congenital occlusion of ureter, unspecified
Q6211	Congenital occlusion of ureteropelvic junction
Q6212	Congenital occlusion of ureterovesical orifice
Q6212 Q622	Congenital occlusion of ureterovesical orifice Congenital megaureter

- Q6473 Congenital urethrorectal fistula
- Q6474 Double urethra
- Q6475 Double urinary meatus
- Q6479 Other congenital malformations of bladder and urethra
- Q648 Other specified congenital malformations of urinary system
- Q649 Congenital malformation of urinary system, unspecified