

# **CHAPTER 11**

## **Urinary Tract Infection**

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**Female Urinary Tract Infection**  
**Male Urinary Tract Infection**  
**Pediatric Urinary Tract Infection**

**Table 11-1. Codes used in the diagnosis and management of urinary tract infection****Female Urinary Tract Infection****Females 18 years or older with one of the following ICD-9 diagnosis codes:**

## Cystitis

112.2	Candidiasis of other urogenital sites
120.0	Schistosoma haematobium
120.9	Schistosomiasis, unspecified
595.0	Acute cystitis
595.1	Chronic interstitial cystitis
595.2	Other chronic cystitis
595.3	Trigonitis
595.89	Other specified types of cystitis
595.9	Cystitis, unspecified
646.6	Infections of genitourinary tract in pregnancy
760.1	Maternal renal and urinary tract diseases affecting fetus or newborn

## Pyelonephritis

590.0	Chronic pyelonephritis
590.00	Chronic pyelonephritis without lesion of renal medullary necrosis
590.01	Chronic pyelonephritis with lesion of renal medullary necrosis
590.1	Acute pyelonephritis
590.10	Acute pyelonephritis without lesion of renal medullary necrosis
590.11	Acute pyelonephritis with lesion of renal medullary necrosis
590.2	Renal and perinephric abscess
590.3	Pyeloureteritis cystica
590.8	Other pyelonephritis or pyonephrosis, not specified as acute or chronic
590.9	Infection of kidney, unspecified
593.89	Other specified disorders of kidney and ureter

## Other

597.89	Other urethritis
599.0	Urinary tract infection site not specified
646.5	Asymptomatic bacteriuria in pregnancy

**Male Urinary Tract Infection****Males 18 years or older with one of the following ICD-9 diagnosis codes:**

## Orchitis

016.5	Tuberculosis of other male genital organs
072.0	Mumps orchitis
603.1	Infected hydrocele
604.0	Orchitis, epididymitis and epididymo-orchitis with abscess
604.9	Other orchitis, epididymitis, and epididymo-orchitis, without mention of abscess
604.90	Orchitis and epididymitis, unspecified
604.91	Orchitis and epididymitis in diseases classified elsewhere
604.99	Other orchitis, epididymitis, and epididymo-orchitis, without abscess
608.0	Seminal vesiculitis
608.4	Other inflammatory disorders of male genital organs

## Cystitis

112.2	Candidiasis of other urogenital sites
120.0	Schistosoma haematobium

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**Table 11-1 (continued). Codes used in the diagnosis and management of urinary tract infection**

120.9	Schistosomiasis, unspecified
595.0	Acute cystitis
595.1	Chronic interstitial cystitis
595.2	Other chronic cystitis
595.3	Trigonitis
595.89	Other specified types of cystitis
595.9	Cystitis, unspecified
Pyelonephritis	
590.0	Chronic pyelonephritis
590.00	Chronic pyelonephritis without lesion of renal medullary necrosis
590.01	Chronic pyelonephritis with lesion of renal medullary necrosis
590.1	Acute pyelonephritis
590.10	Acute pyelonephritis without lesion of renal medullary necrosis
590.11	Acute pyelonephritis with lesion of renal medullary necrosis
590.2	Renal and perinephric abscess
590.3	Pyeloureteritis cystica
590.8	Other pyelonephritis or pyonephrosis, not specified as acute or chronic
590.9	Infection of kidney, unspecified
593.89	Other specified disorders of kidney and ureter
Other	
597.8	Other urethritis
599.0	Urinary tract infection site not specified
607.1	Balanoposthitis
607.2	Other inflammatory disorders of penis

**Pediatric Urinary Tract Infection****Individuals under 18 with one of the following ICD-9 diagnosis codes:**

Cystitis	
112.2	Candidiasis of other urogenital sites
595.0	Acute cystitis
595.2	Other chronic cystitis
595.3	Trigonitis
595.89	Other specified types of cystitis
595.9	Cystitis, unspecified
Pyelonephritis	
590.0	Chronic pyelonephritis
590.00	Chronic pyelonephritis without lesion of renal medullary necrosis
590.01	Chronic pyelonephritis with lesion of renal medullary necrosis
590.1	Acute pyelonephritis
590.10	Acute pyelonephritis without lesion of renal medullary necrosis
590.11	Acute pyelonephritis with lesion of renal medullary necrosis
590.2	Renal and perinephric abscess
590.3	Pyeloureteritis cystica
590.8	Other pyelonephritis or pyonephrosis, not specified as acute or chronic
590.9	Infection of kidney, unspecified
593.89	Other specified disorders of kidney and ureter

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**Table 11-1 (continued). Codes used in the diagnosis and management of urinary tract infection**

Orchitis	
016.5	Tuberculosis of other male genital organs
072.0	Mumps orchitis
603.1	Infected hydrocele
604.0	Orchitis, epididymitis and epididymo-orchitis with abscess
604.9	Other orchitis, epididymitis, and epididymo-orchitis, without mention of abscess
604.90	Orchitis and epididymitis, unspecified
604.91	Orchitis and epididymitis in diseases classified elsewhere
604.99	Other orchitis, epididymitis, and epididymo-orchitis, without abscess
Other	
599.0	Urinary tract infection site not specified
760.1	Maternal renal and urinary tract diseases affecting fetus or newborn
771.82	Urinary tract infection of newborn

**Table 11-2. Nationally representative inpatient stays for female urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=250,711)		2003 (N=276,412)		2004 (N=282,203)		2005 (N=297,627)		2006 (N=305,525)		2007 (N=307,891)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	225.6	218.1	245.6	237.8	254.3	257.9	264.8	264.8	269.2	267.1	268.0	267.3
Age												
18-24	90.3*		94.5*		90.8*		85.9*		88.3*		81.7*	
25-34	78.1*		82.6*		79.0*		79.6*		78.5*		76.7*	
35-39	68.5*		75.0*		75.8*		74.0*		74.7*		76.8*	
40-44	73.3*		77.2*		73.9*		78.0*		80.4*		74.7*	
45-54	87.6*		92.2*		95.4*		95.1*		95.0*		95.8*	
55-64	147.3*		154.9*		163.9*		165.7*		165.0*		159.5*	
▶ 65-74	351.6		385.5		402.5		406.8		416.7		426.7	
75-84	728.8*		793.5*		1,049*		1,116*		1,131*		1,102*	
85+	2,726*		3,081*		3,120*		3,211*		3,216*		3,367*	
Race/ethnicity												
▶ White	143.3	148.4	178.8	173.0	190.5	193.4	208.0	208.0	212.4	210.2	204.8	203.3
Black	175.8*	180.7	210.3*	211.4	208.1*	216.5	173.6*	173.6	196.6*	196.6	203.0*	205.6
Hispanic	†	†	190.6*	187.1	165.8*	169.0	165.4*	165.4	180.4*	177.1	161.1*	158.0
Asian	71.8*	72.5	90.6*	87.9	90.0*	90.2	69.4*	69.4	81.5*	81.6	91.8*	90.0
Other	376.0*	363.7	248.3*	258.9	278.9*	302.8	312.9*	312.9	330.1*	338.7	328.3*	314.4
Region												
Northeast	221.5	209.5	257.6	243.6	251.6	249.6	257.8	257.8	286.2	282.7	277.4	268.9
South	264.0	250.1	280.0	265.6	298.1	295.9	308.2	308.2	301.0	297.0	292.1	288.9
▶ Midwest	219.2	216.3	242.1	238.0	264.4	270.4	264.2	264.2	275.2	277.4	286.0	292.4
West	173.0*	174.6	182.4*	185.0	175.9*	187.7	201.1*	201.1	196.9*	194.5	203.4*	205.5

▶ Denotes reference group.

\*Statistically different from reference group (p&lt;.05).

† Figure does not meet standard for reliability or precision.

<sup>a</sup>Rate per 100,000 individuals in the same demographic stratum is based on 2002-2007 population estimates from Current Population Survey (CPS).<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Healthcare Cost and Utilization Project Nationwide Inpatient Sample, 2002-2007.

**Table 11-3. Inpatient stays by Medicare beneficiaries for female urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=112,420)		2003 (N=115,840)		2004 (N=121,020)		2005 (N=122,500)		2006 (N=123,520)		2007 (N=122,940)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	563.4	556.8	567.9	561.2	587.0	580.0	594.0	575.7	614.2	607.8	617.0	610.5
Under 65/65+												
< 65 Years	254.1*	254.1	266.5*	266.5	286.1*	286.1	283.5*	283.5	281.3*	281.3	292.0*	292.0
▶ 65+ Years	626.1	556.8	631.9	561.2	652.8	580.0	665.3	575.7	692.7	607.8	697.8	610.5
Age												
▶ 65-69	166.8		175.8		170.0		192.9		177.1		189.3	
70-74	299.9*		305.0*		339.5*		333.8*		327.6*		333.1*	
75-79	532.0*		548.1*		590.6*		528.6*		588.8*		593.8*	
80-84	891.1*		861.1*		941.3*		915.0*		957.6*		1,002*	
85-89	1,449*		1,466*		1,390*		1,457*		1,597*		1,519*	
90-94	1,972*		1,966*		2,043*		2,222*		2,161*		2,171*	
95-97	2,543*		2,645*		2,514*		3,096*		2,918*		2,579*	
98+	1,629*		1,686*		1,392*		1,606*		1,687*		1,626*	
Race/ethnicity												
▶ White	543.8	537.6	553.9	547.7	573.1	567.4	577.0	556.1	605.7	600.8	612.4	604.4
Black	748.0*	832.7	714.7*	789.9	721.5*	806.0	748.6*	836.5	735.9*	819.9	705.4*	805.9
Hispanic	561.1*	556.6	554.8*	491.5	597.0*	547.8	730.4*	736.4	694.4*	560.7	729.2*	679.9
Asian	297.2*	291.6	324.9*	321.0	288.6*	259.6	358.5*	323.7	273.4*	230.0	345.0*	336.8
Other	610.2*	810.8	588.8*	800.1	696.9*	776.0	571.0*	655.1	501.1*	677.2	496.6*	572.7
Unknown	1,153*♦	...	848.6*♦	...	950.3*♦	...	801.9*♦	...	1,307*♦	...	655.7*♦	...
Region												
▶ Northeast	554.0	543.4	516.7	485.9	588.1	565.1	568.7	533.2	622.7	599.1	671.1	619.5
South	666.8*	642.3	673.7*	657.9	662.6*	636.6	670.1*	644.7	695.5*	689.5	665.5*	664.1
Midwest	501.2*	512.5	546.1*	566.8	560.9*	576.5	589.6*	573.7	611.3*	625.5	627.1*	635.4
West	421.4*	425.9	410.3*	403.9	444.5*	460.9	452.6*	462.7	418.6*	390.1	427.4*	432.0

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

♦Rate based on a count less than 600, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Centers for Medicare and Medicaid Services, 5% Standard Analytical Claims Files.

**Table 11-4. Inpatient stays by privately insured individuals for female urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=4,255)		2003 (N=4,772)		2004 (N=4,781)		2005 (N=5,651)		2006 (N=4,158)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	93.7	218.4	94.2	254.0	92.6	257.8	103.3	269.8	78.3	265.3
Age										
18-24	46.0*		43.5*		37.4*		33.1*		36.1*	
25-34	44.4*		41.4*		38.2*		37.6*		40.3*	
35-39	34.9*		43.7*		33.3*		40.3*		41.1*	
40-44	42.7*		44.8*		41.3*		37.7*		35.9*	
45-54	62.1*		61.2*		56.1*		57.6*		56.7*	
55-64	108.9*		108.8*		106.6*		106.4*		107.4*	
▶ 65-74	302.7		310.9		290.4		327.4		272.7	
75-84	1,041*		850.4*		892.8*		911.8*		936.0*	
85+	...		1,694*		1,819*		1,946*		1,976*	
Race/ethnicity										
▶ White	78.3	162.6	95.4	240.5	94.9	273.7	105.2	292.4	81.6	287.4
Black	116.4*	173.2	134.4*	251.7	126.4*	277.0	155.0*	304.5	88.0*	312.4
Hispanic	81.5*	152.4	78.5*	193.9	95.8*	273.9	87.5*	200.5	79.7*	200.1
Asian	50.6*	115.5	32.5*	144.3	37.8*	124.9	32.2*	95.4	37.6*	145.2
Other	105.6*♦	341.7	77.4*♦	324.3	28.9*♦	107.4	99.3*	255.9	55.0*	222.6
Unknown	83.8*	...	104.8*	...	92.7*	...	103.0*	...	74.0*	...
Missing	106.9*	...	93.3*	...	83.9*	...	98.8*	...	70.5*	...
Region										
Northeast	104.0	224.2	90.3*	251.0	93.8*	264.5	90.3*	265.2	79.0	265.5
South	92.3*	215.1	100.1	260.8	96.1*	272.2	101.4*	277.9	80.4	279.1
▶ Midwest	107.1	231.6	105.5	266.6	107.6	271.1	128.0	292.4	79.6	292.3
West	53.1*	156.6	49.0*	160.9	43.1*	138.8	65.1*	187.6	69.4*	210.5

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group (p&lt;.05).

♦Rate based on a count less than 30, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

**Table 11-5. Hospital outpatient visits by Medicare beneficiaries for female urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=190,560)		2003 (N=207,360)		2004 (N=218,260)		2005 (N=233,860)		2006 (N=242,760)		2007 (N=240,160)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	955.1	963.1	1,017	1,028	1,059	1,067	1,134	1,163	1,207	1,233	1,205	1,249
Under 65/65+												
< 65 Years	917.0*	917.0	975.9*	975.9	1,028*	1,028	1,020*	1,020	1,105*	1,105	1,065*	1,065
▶ 65+ Years	962.8	963.1	1,025	1,028	1,065	1,067	1,160	1,163	1,231	1,233	1,240	1,249
Age												
▶ 65-69	780.6		872.0		898.9		951.0		992.5		1,013	
70-74	913.7*		928.8*		1,029*		1,111*		1,208*		1,242*	
75-79	1,040*		1,167*		1,115*		1,257*		1,350*		1,320*	
80-84	1,184*		1,166*		1,201*		1,342*		1,369*		1,416*	
85-89	1,023*		1,120*		1,234*		1,309*		1,405*		1,421*	
90-94	1,067*		1,133*		1,181*		1,265*		1,365*		1,393*	
95-97	822.3*		1,031*		1,079*		1,297*		1,320*		834.3*	
98+	414.5*♦		255.0*♦		632.9*		508.0*		802.8*		492.0*	
Race/ethnicity												
▶ White	927.4	946.9	986.5	1,015	1,045	1,062	1,134	1,163	1,220	1,257	1,222	1,276
Black	901.0*	838.8	925.6*	799.0	835.4*	769.4	883.7*	908.6	860.0*	753.9	821.3*	758.6
Hispanic	1,277*	1,169	1,318*	1,263	1,455*	1,173	1,528*	1,561	1,463*	1,291	1,355*	1,356
Asian	304.3*	273.5	358.0*	347.5	376.4*	360.1	276.2*	284.9	395.6*	384.8	445.2*	490.4
Other	3,071*	3,286	3,428*	3,798	3,301*	3,620	2,933*	3,282	2,984*	3,368	3,002*	3,175
Unknown	1,317*	...	1,251*♦	...	1,512*	...	1,462*	...	1,910*	...	2,022*	...
Region												
▶ Northeast	550.1	505.7	618.3	572.7	614.9	583.2	670.8	650.5	707.0	678.8	758.5	705.2
South	1,038*	1,053	1,064*	1,067	1,069*	1,084	1,120*	1,141	1,171*	1,193	1,111*	1,141
Midwest	1,043*	1,086	1,176*	1,245	1,269*	1,325	1,424*	1,510	1,504*	1,587	1,548*	1,667
West	1,136*	1,151	1,152*	1,173	1,253*	1,237	1,279*	1,310	1,435*	1,461	1,442*	1,524

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

♦Rate based on a count less than 600, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Centers for Medicare and Medicaid Services, 5% Standard Analytical Claims Files.

**Table 11-6. Hospital outpatient visits by privately insured individuals for female urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=32,929)		2003 (N=35,920)		2004 (N=44,967)		2005 (N=55,816)		2006 (N=58,350)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	725.4	689.0	709.3	691.9	871.1	815.8	1,020	960.6	1,099	1,138
Age										
18-24	963.0*		942.8*		1,157*		1,331*		1,401*	
25-34	805.3*		785.3*		951.9*		1,078*		1,147	
35-39	661.3		626.9*		802.7*		942.4*		977.2*	
40-44	555.2*		570.7		717.4		842.0		898.8*	
45-54	572.1*		561.7		718.1		879.0		949.8*	
55-64	708.6*		702.3*		884.7*		1,091*		1,148	
▶ 65-74	661.5		571.6		723.8		851.9		1,166	
75-84	1,219*		875.8*		1,045*		1,043*		1,662*	
85+	...		2,180*		1,335*		1,566*		2,050*	
Race/ethnicity										
▶ White	729.6	709.3	775.1	785.9	909.2	876.6	1,061	1,018	1,145	1,189
Black	773.4*	584.6	777.8*	531.5	897.1*	636.1	1,051*	815.8	1,148*	1,038
Hispanic	825.1*	778.8	854.9*	835.3	909.7*	801.1	1,050*	942.7	1,109*	1,019
Asian	675.3*	502.3	652.8*	658.1	664.2*	559.3	732.9*	656.3	789.6*	693.8
Other	696.8*	555.0	855.1*	870.5	776.9*	730.5	842.8*	712.6	1,074*	1,178
Unknown	677.3*	...	714.7*	...	811.9*	...	985.2*	...	1,075*	...
Missing	718.0*	...	601.5*	...	757.7*	...	885.7*	...	932.4*	...
Region										
Northeast	1,057*	957.6	957.8*	888.8	1,275*	1,138	1,540*	1,450	1,751*	1,703
South	633.8*	571.7	614.3*	537.3	706.6*	623.9	802.3*	718.0	857.9*	879.5
▶ Midwest	651.4	669.6	652.9	716.3	854.9	842.0	1,064	1,012	1,138	1,220
West	948.0*	885.5	954.3*	942.6	1,105*	1,128	1,185*	1,209	1,256*	1,301

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.



**Table 11-7. Nationally representative hospital outpatient visits for female urinary tract infection listed as primary diagnosis, 2002-2007 (merged), 6-year count**

	<b>6-Year Count</b>
Total	2,043,757
Age	
40-44	466,341
45-54	600,336
55-64	302,144
65-74	264,427
75-84	343,799
85+	66,710
Race/ethnicity	
White	1,712,372
Black	256,127
Hispanic	35,798
Asian	21,099
Other	18,361
Region	
Northeast	338,707
South	757,033
Midwest	687,794
West	260,223

SOURCE: National Ambulatory Medical Care Survey, 2002-2007; National Hospital Ambulatory Medical Care Survey, 2002-2007.

**Table 11-8. Ambulatory surgery center visits by Medicare beneficiaries for female urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=16,280)		2003 (N=18,560)		2004 (N=19,240)		2005 (N=19,720)		2006 (N=19,160)		2007 (N=18,660)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	81.6	86.9	91.0	96.2	93.3	96.8	95.6	96.7	95.3	98.3	93.6	98.3
Under 65/65+												
< 65 Years	63.1*	63.1	77.8*	77.8	91.4	91.4	99.7*	99.7	90.8	90.8	88.3*	88.3
▶ 65+ Years	85.3	86.9	93.8	96.2	93.8	96.8	94.7	96.7	96.3	98.3	95.0	98.3
Age												
▶ 65-69	78.2		87.2		81.3		89.0		90.9		85.8	
70-74	79.0*		99.0*		96.3*		88.4*		90.5*		90.0*	
75-79	95.0*		110.6*		111.4*		111.5*		112.1*		116.3*	
80-84	104.9*		94.0*		115.5*		113.0*		99.7*		110.9*	
85-89	83.1*		88.3*		81.3*		81.7*		102.8*		92.7*	
90-94	72.8*♦		60.1*♦		48.3*♦		71.6*♦		83.3*		58.8*♦	
95-97	25.3*♦		62.1*♦		36.8*♦		48.9*♦		37.7*♦		37.9*♦	
98+	14.3*♦		...		...		...		40.8*♦		13.7*♦	
Race/ethnicity												
▶ White	85.9	90.6	97.7	102.5	99.8	103.3	101.7	103.0	101.2	104.1	99.2	104.0
Black	57.4*	65.3	53.7*	55.7	53.6*	56.1	58.5*	49.3	60.6*	64.4	54.9*	56.5
Hispanic	68.7*♦	76.4	27.5*♦	48.4	58.6*♦	64.1	62.2*♦	59.2	74.2*♦	111.6	82.7*♦	80.0
Asian	7.1*♦	34.6	33.1*♦	29.9	18.8*♦	27.7	5.9*♦	28.7	40.7*♦	48.0	22.3*♦	42.1
Other	73.8*♦	76.7	92.0*♦	126.5	100.4*♦	98.2	123.2*♦	139.2	78.0*♦	50.4	120.1*♦	105.4
Unknown	123.5*♦	...	89.3*♦	...	172.8*♦	...	235.8*♦	...	150.8*♦	...	163.9*♦	...
Region												
▶ Northeast	87.7	90.4	90.0	93.5	80.3	84.8	75.6	77.0	81.8	84.6	93.0	98.2
South	85.6*	93.2	104.4*	113.1	107.2*	106.7	100.9*	99.4	106.6*	111.1	97.1*	102.9
Midwest	89.3*	94.9	95.6*	98.1	108.3*	115.9	116.3*	119.3	106.2*	110.2	104.2*	109.4
West	51.1*	53.9	52.1*	55.7	52.5*	55.5	75.6*	78.7	68.2*	67.1	70.9*	72.7

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

♦Rate based on a count less than 600, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Centers for Medicare and Medicaid Services, 5% Standard Analytical Claims Files.

**Table 11-9. Ambulatory surgery center visits by privately insured individuals for female urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=933)		2003 (N=999)		2004 (N=880)		2005 (N=1,015)		2006 (N=1,074)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	20.6	21.3	19.7	20.9	17.0	19.9	18.5	21.6	20.2	25.8
Age										
18-24	19.2*		14.3*		15.1*		12.8*		18.3*	
25-34	16.3*		19.2		15.9*		16.0*		16.7*	
35-39	26.8		19.8		14.0*		17.4*		21.1*	
40-44	21.4*		21.3		16.1*		21.4		18.2*	
45-54	21.5*		21.1		17.1*		19.2		19.6*	
55-64	20.9*		23.1		21.5		23.5		25.2	
▶ 65-74	28.3		21.6		24.1		24.2		30.8	
75-84	12.4*♦		17.8*♦		28.9*		27.0*		50.0*	
85+	...		9.9*♦		9.3*♦		3.8*♦		23.1*♦	
Race/ethnicity										
▶ White	23.6	23.4	23.0	24.4	18.1	20.8	20.5	23.3	22.7	28.6
Black	16.9*♦	13.4	14.7*♦	11.0	10.0*♦	16.2	13.3*	16.3	13.6*	20.1
Hispanic	22.3*	24.9	17.6*	17.3	14.5*	21.8	12.4*	18.8	17.7*	24.1
Asian	17.4*♦	41.6	20.7*♦	34.3	14.0*♦	19.1	7.7*♦	7.6	12.5*♦	19.0
Other	21.1*♦	26.9	40.5*♦	137.2	28.9*♦	25.3	14.5*♦	17.9	26.3*♦	38.4
Unknown	18.5*	...	20.8*	...	15.8*	...	19.2*	...	19.2*	...
Missing	18.6*	...	15.9*	...	16.8*	...	16.9*	...	14.2*	...
Region										
Northeast	15.9	15.8	10.8*	11.8	11.6	15.1	12.9*	17.4	10.6*	15.2
South	27.8*	28.0	26.7*	27.6	23.6*	28.7	25.2*	29.5	29.3*	38.5
▶ Midwest	16.5	17.0	16.4	16.7	13.7	14.7	16.2	19.5	13.9	16.5
West	12.5*	19.8	13.3*	23.0	8.7*	15.2	7.9*	9.0	13.0*	19.3

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

♦Rate based on a count less than 30, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.

<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

**Table 11-10. Nationally representative ambulatory surgery center visits for female urinary tract infection as primary diagnosis, count, rate<sup>a</sup>**

	<b>Count</b>	<b>Rate</b>
Total	55,628	49.0
Age		
18-24	9,048	65.3
25-34	9,562	48.7
35-39	2,279	21.8
40-44	900	8.0*
45-54	15,832	72.5
55-64	8,447	52.5
▶ 65-74	7,056	70.4
75-84	1,007	13.2*
85+	1,497	56.3*

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

<sup>a</sup>Rate per 100,000 individuals in the same demographic stratum is based on 2006 population estimates from Current Population Survey (CPS).

SOURCE: National Survey of Ambulatory Surgery, 2006.

**Table 11-11. Physician office visits by Medicare beneficiaries for female urinary tract infection listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=2,514,020)		2003 (N=2,638,980)		2004 (N=2,762,820)		2005 (N=2,814,060)		2006 (N=2,833,800)		2007 (N=2,819,260)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	12,600	13,675	12,938	14,085	13,402	14,643	13,645	14,992	14,092	15,611	14,149	15,814
Under 65/65+												
< 65 Years	8,050*	8,050	8,307*	8,307	8,658*	8,658	8,668*	8,668	8,665*	8,665	8,518*	8,518
▶ 65+ Years	13,521	13,675	13,921	14,085	14,439	14,643	14,789	14,992	15,370	15,611	15,548	15,814
Age												
▶ 65-69	10,824		11,261		11,486		11,580		11,893		11,882	
70-74	13,270*		13,752*		14,204*		14,687*		15,273*		15,493*	
75-79	15,509*		15,642*		16,125*		16,627*		17,194*		17,480*	
80-84	15,868*		16,323*		17,169*		17,653*		18,656*		18,777*	
85-89	14,445*		15,088*		16,293*		16,501*		17,421*		18,000*	
90-94	12,753*		13,020*		13,637*		13,993*		14,412*		14,743*	
95-97	8,994*		9,921*		9,505*		10,768*		10,890*		11,478*	
98+	3,201*		3,768*		4,093*		4,421*		4,259*		4,346*	
Race/ethnicity												
▶ White	12,953	14,029	13,335	14,486	13,891	15,119	14,254	15,578	14,826	16,313	14,891	16,521
Black	8,383*	8,787	8,281*	8,724	8,210*	8,894	8,032*	8,642	7,747*	8,370	7,927*	8,740
Hispanic	14,142*	13,943	14,649*	14,571	14,968*	14,704	15,105*	15,182	16,035*	16,529	14,677*	15,179
Asian	8,845*	9,069	9,879*	10,018	9,699*	10,178	9,891*	10,337	9,460*	9,907	10,467*	11,258
Other	20,306*	24,041	20,534*	22,905	20,364*	22,159	17,091*	18,963	15,869*	18,327	15,635*	18,394
Unknown	25,196*	...	23,761*	...	25,140*	...	27,642*	...	27,739*	...	23,388*	...
Region												
▶ Northeast	9,569	10,575	9,775	10,814	10,417	11,616	10,658	11,854	11,240	12,528	11,117	12,570
South	15,419*	16,656	15,872*	17,135	16,413*	17,811	16,621*	18,118	17,134*	18,950	17,328*	19,285
Midwest	10,726*	11,669	10,894*	11,901	11,235*	12,241	11,593*	12,772	12,067*	13,281	11,874*	13,278
West	12,665*	13,797	13,092*	14,436	13,251*	14,647	13,412*	14,951	13,470*	15,124	13,757*	15,475

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Centers for Medicare and Medicaid Services, 5% Standard Analytical Claims Files.

**Table 11-12. Physician office visits by privately insured individuals for female urinary tract infection listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=363,620)		2003 (N=378,951)		2004 (N=396,502)		2005 (N=430,580)		2006 (N=408,874)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	8,011	8,512	7,483	8,241	7,681	8,788	7,869	9,095	7,700	9,316
Age										
18-24	7,901*		7,006*		6,982*		7,031*		6,915*	
25-34	8,032*		7,395*		7,325*		7,311*		7,260*	
35-39	7,485*		7,058*		7,159*		7,199*		7,169*	
40-44	7,395*		6,945*		7,131*		7,165*		7,175*	
45-54	7,589*		7,121*		7,342*		7,511*		7,436*	
55-64	8,980*		8,603*		8,909*		9,253*		9,112*	
▶ 65-74	9,351		9,188		10,245		10,625		11,055	
75-84	10,762*		10,930*		12,605*		13,340*		15,127*	
85+	...		9,610*		10,650*		11,566*		11,954*	
Race/ethnicity										
▶ White	8,548	9,145	8,321	9,221	7,906	9,122	8,065	9,426	7,939	9,689
Black	7,889*	7,919	7,281*	7,408	6,505*	6,931	6,647*	7,020	6,441*	7,267
Hispanic	9,448*	9,760	8,851*	9,357	8,349*	9,151	8,398*	9,435	8,459*	9,648
Asian	7,147*	7,839	7,235*	8,666	6,518*	7,860	6,534*	8,252	6,197*	7,576
Other	8,404*	9,020	8,540*	10,379	8,005*	9,755	7,604*	9,211	7,546*	9,308
Unknown	7,948*	...	7,680*	...	7,259*	...	7,406*	...	7,332*	...
Missing	7,537*	...	6,250*	...	7,216*	...	7,629*	...	7,070*	...
Region										
Northeast	6,789*	6,953	6,453*	6,769	6,839*	7,458	6,859*	7,672	6,829*	7,824
South	8,958*	9,466	8,392*	9,217	8,576*	10,003	8,813*	10,289	8,601*	10,505
▶ Midwest	7,375	7,876	6,790	7,551	6,910	7,834	6,975	7,952	6,633	8,111
West	7,754*	8,443	7,210*	8,127	7,391*	8,506	7,762*	9,227	7,778*	9,489

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

**Table 11-13. Nationally representative physician office visits for female urinary tract infection listed as any diagnosis, 2002-2007 (merged), 6-year count**

	<b>6-Year Count</b>
Total	29,950,981
Age	
40-44	3,858,931
45-54	8,128,926
55-64	5,082,385
65-74	5,097,644
75-84	5,833,972
85+	1,949,123
Race/ethnicity	
White	25,897,411
Black	2,924,214
Hispanic	1,129,356
Region	
Northeast	4,625,736
South	13,707,751
Midwest	7,093,306
West	4,524,188

SOURCE: National Ambulatory Medical Care Survey, 2002-2007; National Hospital Ambulatory Medical Care Survey, 2002-2007.

**Table 11-14. Emergency room visits by Medicare beneficiaries for female urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=182,640)		2003 (N=192,780)		2004 (N=205,740)		2005 (N=217,800)		2006 (N=226,540)		2007 (N=230,200)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	915.4	868.6	945.1	883.8	998.0	921.9	1,056	1,004	1,127	1,049	1,155	1,063
Under 65/65+												
< 65 Years	1,046*	1,046	1,120*	1,120	1,209*	1,209	1,174*	1,174	1,312*	1,312	1,368*	1,368
▶ 65+ Years	889.0	868.6	907.9	883.8	951.8	921.9	1,029	1,004	1,083	1,049	1,102	1,063
Age												
▶ 65-69	618.3		618.3		637.0		678.4		712.1		708.7	
70-74	674.0*		728.0*		768.8*		827.4*		877.9*		935.7*	
75-79	906.2*		890.3*		958.8*		1,043*		1,088*		1,079*	
80-84	1,174*		1,160*		1,215*		1,300*		1,369*		1,308*	
85-89	1,291*		1,357*		1,358*		1,557*		1,591*		1,692*	
90-94	1,428*		1,551*		1,600*		1,705*		1,843*		1,946*	
95-97	1,366*		1,490*		1,656*		1,664*		1,886*		2,010*	
98+	871.8*		694.1*		1,083*		768.8*		870.9*		1,093*	
Race/ethnicity												
▶ White	854.4	823.7	882.9	840.9	935.4	879.5	1,008	973.4	1,079	1,025	1,117	1,045
Black	1,391*	1,323	1,383*	1,320	1,426*	1,333	1,430*	1,338	1,480*	1,346	1,491*	1,332
Hispanic	1,157*	1,042	1,280*	1,085	1,279*	1,053	1,326*	1,214	1,548*	1,372	1,469*	1,226
Asian	360.9*	339.1	364.6*	371.7	458.0*	439.7	429.0*	443.3	639.9*	583.9	556.5*	568.1
Other	1,355*	1,310	1,570*	1,456	1,665*	1,484	1,472*	1,486	1,292*	1,113	1,239*	1,252
Unknown	1,564*	...	1,608*	...	1,814*	...	1,368* <sup>†</sup>	...	2,412*	...	2,240*	...
Region												
▶ Northeast	642.7	611.2	722.9	687.7	768.7	710.3	812.1	796.1	880.7	847.2	872.8	812.9
South	1,112*	1,037	1,141*	1,040	1,174*	1,066	1,224*	1,138	1,283*	1,161	1,323*	1,177
Midwest	878.4*	859.6	876.2*	833.9	975.9*	908.0	1,061*	996.7	1,141*	1,075	1,195*	1,140
West	845.5*	810.4	860.9*	838.0	892.7*	861.0	948.3*	956.7	1,033*	996.7	1,043*	986.4

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group (p&lt;.05).

<sup>†</sup>Rate based on a count less than 600, should be interpreted with caution.<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Centers for Medicare and Medicaid Services, 5% Standard Analytical Claims Files.



**Table 11-15. Emergency room visits by privately insured individuals for female urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=17,347)		2003 (N=14,899)		2004 (N=11,130)		2005 (N=9,466)		2006 (N=6,607)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	382.2	332.0	294.2	310.7	215.6	276.0	173.0	245.7	124.4	94.5
Age										
18-24	767.6*		558.0*		384.1		275.0*		249.7*	
25-34	418.3		303.0*		219.4*		171.1*		151.8*	
35-39	296.0*		214.1*		143.5*		111.5*		104.0	
40-44	248.5*		188.1*		113.0*		84.8*		76.9*	
45-54	228.3*		184.1*		117.9*		75.7*		72.5*	
55-64	238.9*		214.2*		155.5*		116.4*		99.4	
▶ 65-74	393.6		356.2		363.2		344.7		98.7	
75-84	861.7*		708.7*		763.5*		727.1*		111.4*	
85+	...		1,146*		1,275*		1,361*		262.0*	
Race/ethnicity										
▶ White	345.8	297.3	270.3	297.5	178.7	254.3	134.1	225.1	88.3	62.3
Black	664.1*	487.6	561.0*	477.3	390.2*	420.9	267.5*	305.2	149.3*	63.9
Hispanic	367.6*	301.2	321.3*	334.7	244.9*	322.1	167.6*	214.2	151.6*	176.9
Asian	163.4*	192.0	154.6*	170.5	74.9*	125.6	61.8*	109.3	49.5*	44.8
Other	311.5*	273.7	298.6*	227.6	178.5*	220.4	128.4*	179.8	98.0*	89.0
Unknown	306.3*	...	258.9*	...	167.6*	...	129.9*	...	104.3*	...
Missing	408.2*	...	306.5*	...	340.5*	...	374.4*	...	306.4*	...
Region										
Northeast	171.6*	169.6	150.8*	155.5	118.8*	140.6	111.2*	165.5	73.1*	27.6
South	328.1*	307.4	253.6*	293.4	169.7*	269.7	133.6*	257.2	105.8*	102.7
▶ Midwest	608.1	461.4	491.4	440.2	394.3	389.7	319.6	331.6	223.4	162.6
West	120.0*	96.6	46.4*	45.4	15.1*	25.1	22.1*	33.0	28.3*	22.6

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.

<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

**Table 11-16. Nationally representative emergency room visits for female urinary tract infection listed as primary diagnosis, 2002-2007 (merged), 6-year count**

	6-Year Count
Total	4,213,262
Age	
40-44	609,307
45-54	1,039,244
55-64	531,930
65-74	607,567
75-84	764,612
85+	660,602
Race/ethnicity	
White	3,262,963
Black	802,453
Hispanic	57,291
Asian	14,582
Other	75,973
Region	
Northeast	751,348
South	1,788,980
Midwest	890,990
West	781,944

SOURCE: National Ambulatory Medical Care Survey, 2002-2007; National Hospital Ambulatory Medical Care Survey, 2002-2007.

**Table 11-17. Diabetes diagnosis as a comorbidity in adult females hospitalized for urinary tract infection, count,<sup>a</sup> rate<sup>b</sup>**

	2002		2003		2004		2005		2006		2007	
	Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate
Total	250,711	226.0	276,412	246.0	282,203	254.0	297,627	265.0	305,525	269.0	307,891	268.0
Without diabetes as listed diagnosis	182,368	164.0	199,653	177.0	202,037	182.0	213,300	190.0	217,175	191.0	215,924	188.0
With diabetes as listed diagnosis	68,343	62.0	76,759	68.0	80,166	72.0	84,327	75.0	88,350	78.0	91,967	80.0

<sup>a</sup>Counts may not sum to total due to rounding.

<sup>b</sup>Rate per 100,000 based on 2002-2007 population estimates from the Public Use Microdata Sample (PUMS) files from the American Community Survey, for relevant demographic categories of US adult female civilian non-institutionalized population.

SOURCE: Healthcare Cost and Utilization Project Nationwide Inpatient Sample, 2002-2007.

**Table 11-18. Nationally representative inpatient stays for male urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=126,391)		2003 (N=130,201)		2004 (N=136,037)		2005 (N=141,615)		2006 (N=144,337)		2007 (N=146,828)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	124.0	121.3	125.6	122.5	131.1	133.3	134.9	134.9	135.7	135.6	136.1	136.0
Age												
18-24	14.5*		15.0*		16.8*		18.4*		16.0*		16.6*	
25-34	26.9*		27.9*		29.5*		28.0*		29.1*		29.6*	
35-39	36.8*		38.0*		40.1*		38.6*		35.7*		40.8*	
40-44	47.6*		45.7*		49.8*		45.5*		48.2*		48.4*	
45-54	61.6*		66.6*		68.2*		68.1*		68.3*		65.5*	
55-64	119.1*		116.0*		121.0*		123.0*		120.3*		120.6*	
▶ 65-74	280.5		289.2		290.5		299.4		299.9		313.5	
75-84	632.9*		611.8*		755.9*		760.8*		796.2*		775.7*	
85+	1,851*		1,916*		2,011*		2,097*		2,037*		2,052*	
Race/ethnicity												
▶ White	77.2	82.8	91.4	89.5	97.0	99.4	106.2	106.2	105.2	105.5	103.6	103.8
Black	129.6*	128.7	134.2*	130.0	145.3*	144.7	115.8*	115.8	132.2*	130.9	143.1*	145.6
Hispanic	†	†	87.3*	85.7	69.3*	71.8	74.2*	74.2	84.3*	82.3	71.9*	69.4
Asian	34.8*	36.7	47.7*	45.2	45.2*	43.4	35.6*	35.6	37.1*	37.1	44.6*	39.9
Other	257.1*	249.7	138.6*	143.8	144.6*	153.7	151.2*	151.2	158.1*	144.6	181.0*	165.1
Region												
Northeast	132.4	123.6	141.1	129.7	141.2	137.7	147.5	147.5	158.0	156.4	162.2	159.4
South	139.8	137.1	140.3	136.3	149.1	150.0	149.4	149.4	145.8	144.7	144.0	141.8
▶ Midwest	124.2	124.3	122.3	126.7	135.4	144.5	136.5	136.5	143.4	143.5	140.3	143.4
West	92.2*	93.0	93.4*	92.1	90.9*	94.1	100.7*	100.7	95.2*	96.8	99.6*	101.4

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

† Figure does not meet standard for reliability or precision.

<sup>a</sup>Rate per 100,000 individuals in the same demographic stratum is based on 2002-2007 population estimates from Current Population Survey (CPS).<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Healthcare Cost and Utilization Project Nationwide Inpatient Sample, 2002-2007.

**Table 11-19. Inpatient stays by Medicare beneficiaries for male urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=66,160)		2003 (N=67,380)		2004 (N=69,120)		2005 (N=71,260)		2006 (N=70,800)		2007 (N=65,720)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	423.6	456.3	419.2	446.9	422.0	454.6	432.1	465.9	435.9	459.2	404.5	427.9
Under 65/65+												
< 65 Years	276.3*	276.3	285.9*	285.9	272.1*	272.1	259.3*	259.3	277.7*	277.7	245.2*	245.2
▶ 65+ Years	472.2	456.3	463.9	446.9	473.2	454.6	493.1	465.9	492.3	459.2	463.3	427.9
Age												
▶ 65-69	160.3		161.1		168.7		173.0		170.1		165.4	
70-74	297.4*		305.0*		299.6*		312.0*		334.1*		275.2*	
75-79	488.1*		496.9*		492.3*		490.5*		489.6*		448.4*	
80-84	811.5*		807.0*		838.6*		852.0*		798.9*		772.5*	
85-89	1,343*		1,192*		1,227*		1,291*		1,252*		1,216*	
90-94	2,040*		1,847*		1,770*		2,041*		2,238*		2,181*	
95-97	2,532*		2,648*		2,981*		3,276*		2,678*		2,192*	
98+	884.2*♦		697.5*♦		1,158*♦		1,349*		1,153*♦		1,333*	
Race/ethnicity												
▶ White	402.8	438.2	406.1	434.1	402.9	440.1	415.4	450.9	423.6	447.6	394.3	414.7
Black	628.8*	760.4	548.6*	671.0	570.7*	679.4	605.9*	752.9	572.7*	719.5	534.0*	705.7
Hispanic	529.8*	602.0	422.4*	448.7	505.7*	526.8	438.1*	466.4	460.9*	461.2	393.1*	390.4
Asian	112.9*♦	90.8	229.3*♦	185.9	291.8*	251.4	188.3*♦	158.8	178.3*♦	139.3	213.3*♦	194.6
Other	364.3*	355.2	429.3*	440.6	470.7*	417.4	383.8*	428.3	367.1*	308.7	365.1*	408.4
Unknown	1,065*♦	...	1,042*♦	...	949.6*♦	...	1,637*♦	...	1,906*♦	...	701.1*♦	...
Region												
▶ Northeast	441.3	484.2	457.1	487.4	435.1	464.4	463.9	490.1	500.5	530.2	478.6	500.6
South	472.0*	495.4	456.3*	482.2	462.6*	490.8	477.7*	517.2	447.1*	466.7	412.9*	434.9
Midwest	386.5*	435.6	406.0*	433.1	410.7*	445.5	414.4*	444.3	453.6*	469.5	422.9*	437.6
West	347.7*	364.7	312.6*	334.8	333.2*	370.8	324.0*	353.0	319.6*	349.8	286.8*	314.4

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

♦Rate based on a count less than 600, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Centers for Medicare and Medicaid Services, 5% Standard Analytical Claims Files.

**Table 11-20. Inpatient stays by privately insured individuals for male urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=3,461)		2003 (N=3,649)		2004 (N=3,790)		2005 (N=4,382)		2006 (N=3,346)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	80.8	196.5	76.2	208.6	77.5	206.4	84.3	209.2	65.7	195.0
Age										
18-24	17.4*		14.5*		17.9*		11.5*		16.1*	
25-34	22.2*		18.0*		18.9*		20.1*		17.9*	
35-39	31.7*		32.1*		32.9*		32.4*		26.8*	
40-44	41.4*		36.7*		31.3*		37.1*		34.3*	
45-54	64.9*		60.7*		58.8*		63.9*		59.7*	
55-64	135.9*		123.2*		124.6*		117.6*		111.1*	
▶ 65-74	335.1		314.0		329.0		318.5		281.3	
75-84	958.7*		879.2*		864.5*		856.0*		798.8*	
85+	...		1,504*		1,425*		1,606*		1,584*	
Race/ethnicity										
▶ White	70.2	152.7	78.4	199.5	78.6	214.8	84.0	217.4	67.0	204.2
Black	159.7*	237.6	129.7*	222.1	127.0*	253.8	138.3*	253.4	100.6*	246.8
Hispanic	70.4*	156.4	72.0*	187.5	65.5*	181.0	66.9*	171.4	49.7*	132.0
Asian	35.0**	121.2	34.3*	84.5	32.9*	101.2	39.2*	124.4	41.1*	148.0
Other	60.9**	244.7	45.5**	120.2	54.8**	142.9	50.2**	94.3	55.3**	143.8
Unknown	85.8*	...	67.1*	...	76.9*	...	88.3*	...	62.4*	...
Missing	87.8*	...	74.3*	...	76.8*	...	92.1*	...	68.5*	...
Region										
Northeast	91.8	202.5	81.2	205.0	82.7	204.5	82.5*	213.1	74.3	220.1
South	83.9	206.5	79.8	213.3	78.4*	215.2	87.4*	224.3	64.5	192.4
▶ Midwest	85.5	199.7	82.9	218.6	87.1	218.7	93.1	214.2	68.2	220.7
West	49.3*	144.9	43.1*	160.3	47.7*	134.7	57.6*	153.1	58.6*	150.1

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

\*\*Rate based on a count less than 30, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

**Table 11-21. Hospital outpatient visits by Medicare beneficiaries for male urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=46,540)		2003 (N=49,600)		2004 (N=54,040)		2005 (N=57,620)		2006 (N=60,060)		2007 (N=55,240)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	298.0	293.1	308.6	310.4	329.9	330.9	349.4	356.1	369.8	381.1	340.0	341.7
Under 65/65+												
< 65 Years	314.5*	314.5	296.3*	296.3	317.6*	317.6	327.1*	327.1	345.1*	345.1	312.3*	312.3
▶ 65+ Years	292.6	293.1	312.7	310.4	334.1	330.9	357.2	356.1	378.6	381.1	350.2	341.7
Age												
▶ 65-69	214.5		221.9		200.2		229.0		230.5		245.3	
70-74	241.4*		266.1*		276.8*		295.5*		338.9*		286.9*	
75-79	298.4*		342.7*		391.1*		428.9*		409.4*		418.0*	
80-84	445.5*		370.7*		439.2*		439.1*		479.8*		439.7*	
85-89	464.0*		586.7*		642.7*		684.6*		831.3*		502.2*	
90-94	488.5*		634.8*		728.3*		695.4*		585.8*		800.3*	
95-97	754.3*♦		726.9*♦		1,011*♦		854.7*♦		1,148*♦		932.8*♦	
98+	265.3*♦		566.7*♦		471.9*♦		463.5*♦		205.8*♦		525.3*♦	
Race/ethnicity												
▶ White	271.1	274.7	287.7	293.2	303.1	311.0	332.5	346.2	354.1	371.8	331.5	339.4
Black	416.5*	440.4	370.0*	391.9	381.3*	400.7	423.5*	461.7	389.9*	426.0	297.1*	327.7
Hispanic	394.1*	261.7	323.0*	348.1	590.0*	529.3	368.0*	261.9	610.6*	458.9	534.0*	465.2
Asian	112.9*♦	92.5	176.4*♦	233.0	175.1*♦	155.5	117.7*♦	103.7	186.1*♦	133.5	191.3*♦	163.6
Other	935.8*	888.6	930.1*	976.6	984.8*	972.5	802.6*	800.2	762.4*	914.2	708.8*	597.6
Unknown	684.4*♦	...	1,202*♦	...	1,388*♦	...	857.4*♦	...	828.5*♦	...	1,227*♦	...
Region												
▶ Northeast	208.7	188.5	214.8	207.9	236.6	219.2	242.3	217.7	276.9	264.3	262.9	250.0
South	298.9*	287.1	274.0*	259.0	302.9*	304.4	327.8*	335.7	314.5*	313.2	299.3*	304.0
Midwest	334.3*	358.7	382.0*	395.6	393.4*	399.2	440.0*	468.5	491.2*	535.0	415.2*	432.1
West	343.9*	327.8	384.1*	416.3	401.0*	415.2	383.8*	387.4	420.0*	433.8	405.7*	394.7

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group (p&lt;.05).

♦Rate based on a count less than 600, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Centers for Medicare and Medicaid Services, 5% Standard Analytical Claims Files.

**Table 11-22. Hospital outpatient visits by privately insured individuals for male urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=9,309)		2003 (N=10,349)		2004 (N=12,099)		2005 (N=14,860)		2006 (N=14,646)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	217.3	342.2	216.1	349.1	247.3	375.8	286.0	423.5	287.5	477.1
Age										
18-24	115.4*		129.1*		142.4*		161.8*		187.0*	
25-34	153.4*		147.4*		175.5*		197.1*		198.2*	
35-39	166.9*		167.1*		186.6*		207.9*		211.2*	
40-44	166.2*		164.1*		192.4*		226.3*		231.3*	
45-54	205.7*		210.4*		246.9*		272.1*		274.3*	
55-64	348.0*		329.3*		407.8*		473.8*		459.2*	
▶ 65-74	504.7		536.3		519.0		580.1		750.0	
75-84	955.6*		763.9*		806.6*		853.2*		1,183*	
85+	...		1,431*		937.2*		1,182*		1,300*	
Race/ethnicity										
▶ White	223.3	342.3	229.5	375.4	254.3	398.4	298.2	454.6	296.4	496.9
Black	278.4*	319.7	343.5*	431.4	362.4*	429.2	378.1*	429.4	422.8*	637.5
Hispanic	293.5*	381.5	237.5*	336.7	244.5*	348.9	248.8*	353.4	250.0*	360.5
Asian	134.0*	143.0	168.6*	238.3	143.1*	195.0	149.7*	244.1	182.8*	367.9
Other	173.4*	263.9	230.8*	351.5	200.9*	246.1	234.2*	385.4	255.9*	376.0
Unknown	244.6*	...	228.5*	...	244.1*	...	278.2*	...	285.8*	...
Missing	205.5*	...	188.4*	...	213.7*	...	258.2*	...	256.2*	...
Region										
Northeast	305.8*	479.1	257.3*	392.5	309.7*	463.8	365.6*	546.4	395.8*	665.4
South	209.6*	312.0	200.6*	305.9	227.0*	333.6	247.1*	339.8	253.1*	414.9
▶ Midwest	198.5	322.4	221.5	379.3	251.3	381.2	312.7	465.8	294.3	479.7
West	220.5*	378.0	218.6*	380.4	252.9*	452.8	289.5*	479.2	298.2*	492.9

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

**Table 11-23. Nationally representative hospital outpatient visits for male urinary tract infection listed as primary diagnosis, 2002-2007 (merged), 6-year count**

	<b>6-Year Count</b>
Total	454,788
Age	
40-44	55,714
45-54	101,721
55-64	150,172
65-74	65,757
75-84	55,023
85+	26,401
Race/ethnicity	
White	293,815
Black	141,488
Hispanic	18,962
Asian	523
Region	
Northeast	90,365
South	157,892
Midwest	115,282
West	91,249

SOURCE: National Ambulatory Medical Care Survey, 2002-2007; National Hospital Ambulatory Medical Care Survey, 2002-2007.



**Table 11-24. Ambulatory surgery center visits by Medicare beneficiaries for male urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=12,720)		2003 (N=13,720)		2004 (N=13,840)		2005 (N=14,520)		2006 (N=13,320)		2007 (N=12,860)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	81.4	94.0	85.3	97.7	84.5	96.5	88.0	99.2	82.0	95.1	79.1	92.1
Under 65/65+												
< 65 Years	46.5*	46.5	50.5*	50.5	52.2*	52.2	55.8*	55.8	45.9*	45.9	47.5*	47.5
▶ 65+ Years	93.0	94.0	97.1	97.7	95.5	96.5	99.4	99.2	94.9	95.1	90.8	92.1
Age												
▶ 65-69	55.8		65.1		69.3		64.7		56.2		53.2	
70-74	111.9*		97.4*		92.0*		102.2*		86.4*		89.0*	
75-79	104.6*		116.4*		107.6*		138.0*		122.4*		112.1*	
80-84	128.4*		118.6*		125.5*		111.8*		148.7*		135.1*	
85-89	101.0*		139.4*		134.6*		101.1*		106.4*		123.8*	
90-94	60.0*♦		105.8*♦		109.6*♦		113.4*♦		127.7*♦		110.1*♦	
95-97	53.9*♦		259.6*♦		101.1*♦		332.4*♦		95.6*♦		...	
98+	...		...		42.9*♦		42.1*♦		123.5*♦		80.8*♦	
Race/ethnicity												
▶ White	83.7	97.7	89.6	104.0	89.1	101.3	90.5	103.7	87.6	101.1	81.6	94.6
Black	76.9*	85.8	70.7*	66.3	56.4*	67.9	80.0*	86.5	53.3*	57.2	73.0*	101.2
Hispanic	32.3*♦	57.7	43.5*♦	41.0	60.2*♦	109.3	70.1*♦	55.2	59.9*♦	86.4	64.5*♦	139.3
Asian	18.8*♦	...	...	...	33.4*♦	29.5	23.5*♦	47.7	15.5*♦	269.5	44.1*♦	67.8
Other	64.3*♦	38.2	71.5*♦	76.7	61.9*♦	97.7	87.2*♦	82.7	50.8*♦	42.4	59.1*♦	35.6
Unknown	456.3*♦	...	160.3*♦	...	365.2*♦	...	155.9*♦	...	248.6*♦	...	0.0*	...
Region												
▶ Northeast	91.7	108.3	96.6	110.9	96.3	110.4	100.8	113.1	78.3	91.6	86.1	101.5
South	84.9*	93.8	83.0*	94.3	88.4*	96.7	88.6*	98.7	81.2*	92.0	76.5*	92.1
Midwest	89.5*	107.1	95.0*	106.8	95.4*	111.2	107.8*	122.4	99.7*	112.8	96.3*	107.9
West	50.0*	56.3	64.3*	76.2	47.5*	59.5	46.2*	52.8	63.2*	80.7	55.1*	61.6

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

♦Rate based on a count less than 600, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Centers for Medicare and Medicaid Services, 5% Standard Analytical Claims Files.

**Table 11-25. Ambulatory surgery center visits by privately insured individuals for male urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=301)		2003 (N=356)		2004 (N=363)		2005 (N=406)		2006 (N=420)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	7.0	11.4	7.4	10.7	7.4	12.2	7.8	10.7	8.2	13.8
Age										
18-24	2.7*♦		2.9*♦		3.5*♦		3.7*♦		2.9*♦	
25-34	4.2*		5.2*		3.9*		5.9*		4.7*	
35-39	4.2*♦		8.0*		5.2*		6.9*		6.9*	
40-44	5.2*♦		6.6*		7.1*		8.3*		8.6*	
45-54	10.0*		8.9*		8.3*		7.0*		8.3*	
55-64	10.4*		9.4*		11.4*		11.9		14.5*	
▶ 65-74	23.8		16.3		21.6		15.6		23.3	
75-84	12.5*♦		18.4*♦		22.5*♦		16.1*♦		28.7*♦	
85+	...		18.3*♦		21.6*♦		23.0*♦		15.5*♦	
Race/ethnicity										
▶ White	7.1	10.5	7.3	10.9	7.6	13.2	7.6	11.3	7.9	14.0
Black	4.7*♦	9.2	10.4*♦	12.2	8.2*♦	11.8	8.6*♦	12.5	10.2*♦	18.7
Hispanic	7.1*♦	10.7	11.1*♦	11.1	7.2*♦	14.8	10.6*	12.4	11.8*	17.1
Asian	10.2*♦	20.3	10.1*♦	6.5	5.7*♦	6.8	7.8*♦	13.2	6.3*♦	15.6
Other	4.7*♦	...	3.3*♦	22.6	...	...	4.2*♦	37.2	4.1*♦	79.6
Unknown	4.9*♦	...	5.8*♦	...	7.7*♦	...	8.6*♦	...	11.6*	...
Missing	7.2*	...	7.0*	...	7.0*	...	6.6*	...	5.8*	...
Region										
Northeast	5.2*	10.8	3.7*	6.6	3.4*	5.9	3.6*♦	6.8	5.5	12.0
South	8.9*	13.6	11.6*	16.5	10.9*	19.6	10.7*	15.0	11.4*	18.7
▶ Midwest	5.5	9.4	4.3	6.2	4.5	5.8	6.5	9.1	5.1	8.6
West	6.4*	10.8	4.5*♦	5.6	6.0*	11.1	5.0*	6.3	7.1*	11.9

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

♦Rate based on a count less than 30, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.

<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

**Table 11-26. Nationally representative ambulatory surgery center visits for male urinary tract infection listed as primary diagnosis, count, rate<sup>a</sup>**

	Count	Rate
Total	25,202	23.7
Age		
25-34	4,174	21.1
35-39	733	7.1
45-54	3,098	14.8
55-64	3,853	25.9
▶ 65-74	3,965	46.5
75-84	9,379	176.0*

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

<sup>a</sup>Rate per 100,000 individuals in the same demographic stratum is based on 2006 population estimates from Current Population Survey (CPS).

SOURCE: National Survey of Ambulatory Surgery, 2006.

**Table 11-27. Physician office visits by Medicare beneficiaries for male urinary tract infection listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=905,020)		2003 (N=931,400)		2004 (N=954,900)		2005 (N=958,420)		2006 (N=953,820)		2007 (N=928,120)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	5,795	6,657	5,794	6,743	5,829	6,795	5,811	6,802	5,872	6,896	5,712	6,719
Under 65/65+												
< 65 Years	3,276*	3,276	3,077*	3,077	3,027*	3,027	3,038*	3,038	2,962*	2,962	2,887*	2,887
▶ 65+ Years	6,626	6,657	6,707	6,743	6,788	6,795	6,790	6,802	6,911	6,896	6,755	6,719
Age												
▶ 65-69	4,239		4,271		4,329		4,260		4,173		4,203	
70-74	6,080*		6,050*		6,023*		5,903*		6,069*		5,974*	
75-79	7,722*		7,760*		8,009*		7,993*		8,207*		7,905*	
80-84	8,948*		9,490*		9,450*		9,556*		9,739*		9,403*	
85-89	10,835*		10,795*		10,705*		11,257*		11,373*		10,766*	
90-94	10,909*		10,726*		12,029*		11,989*		12,948*		12,768*	
95-97	10,345*		9,086*		10,510*		13,010*		11,860*		12,407*	
98+	2,034*		3,313*		3,046*		2,571*		3,211*		3,394*	
Race/ethnicity												
▶ White	5,817	6,641	5,845	6,765	5,867	6,768	5,869	6,810	5,976	6,947	5,815	6,772
Black	5,320*	6,899	5,034*	6,582	5,218*	7,126	5,171*	6,947	4,913*	6,718	4,794*	6,496
Hispanic	6,500*	6,673	6,609*	7,157	6,694*	7,218	6,548*	7,285	6,638*	7,310	6,642*	7,323
Asian	4,712*	4,641	4,746*	4,767	4,277*	4,140	4,701*	4,868	5,070*	5,337	5,459*	5,737
Other	6,565*	8,037	6,738*	8,140	6,615*	8,195	6,037*	7,191	5,540*	6,598	4,725*	5,665
Unknown	14,144*	...	12,740*	...	16,070*	...	12,393*	...	12,262*	...	12,182*	...
Region												
▶ Northeast	5,618	6,639	5,848	7,048	5,868	7,042	6,058	7,313	6,115	7,275	6,079	7,277
South	6,585*	7,515	6,498*	7,476	6,597*	7,620	6,559*	7,636	6,591*	7,690	6,458*	7,544
Midwest	4,969*	5,628	4,849*	5,580	4,856*	5,583	4,809*	5,505	4,900*	5,715	4,681*	5,395
West	5,408*	6,266	5,512*	6,482	5,454*	6,467	5,313*	6,296	5,394*	6,433	5,118*	6,186

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Centers for Medicare and Medicaid Services, 5% Standard Analytical Claims Files.

**Table 11-28. Physician office visits by privately insured individuals for male urinary tract infection listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=87,823)		2003 (N=89,737)		2004 (N=92,798)		2005 (N=101,701)		2006 (N=91,867)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	2,050	2,984	1,873	2,859	1,896	2,927	1,957	2,966	1,803	2,890
Age										
18-24	982.4*		862.4*		856.8*		869.2*		852.1*	
25-34	1,532*		1,375*		1,340*		1,338*		1,305*	
35-39	1,758*		1,631*		1,608*		1,629*		1,534*	
40-44	1,810*		1,674*		1,632*		1,694*		1,650*	
45-54	2,098*		1,891*		1,926*		1,919*		1,871*	
55-64	3,168*		2,812*		2,847*		2,841*		2,683*	
▶ 65-74	4,425		4,165		4,322		4,372		4,253	
75-84	6,057*		6,272*		6,504*		6,646*		6,832*	
85+	...		6,242*		6,914*		7,490*		6,742*	
Race/ethnicity										
▶ White	2,216	3,146	2,050	3,142	1,887	2,958	1,941	3,003	1,809	2,954
Black	2,834*	3,557	2,467*	3,249	2,189*	3,192	2,296*	3,235	1,987*	3,031
Hispanic	2,845*	3,950	2,491*	3,577	2,256*	3,422	2,146*	3,114	2,070*	3,164
Asian	1,847*	2,662	1,731*	2,398	1,683*	2,591	1,635*	2,389	1,593*	2,593
Other	2,198*	3,118	2,018*	2,794	1,938*	2,846	1,750*	2,450	1,664*	2,253
Unknown	2,074*	...	2,073*	...	1,839*	...	1,853*	...	1,812*	...
Missing	1,836*	...	1,506*	...	1,731*	...	1,957*	...	1,581*	...
Region										
Northeast	2,194*	2,800	2,075*	2,913	2,171*	3,067	2,240*	3,179	2,148*	3,348
South	2,294*	3,366	2,075*	3,156	2,095*	3,359	2,144*	3,403	1,977*	3,244
▶ Midwest	1,793	2,661	1,633	2,538	1,606	2,443	1,668	2,465	1,440	2,302
West	1,813*	2,824	1,625*	2,660	1,684*	2,695	1,777*	2,743	1,734*	2,720

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group (p&lt;.05).

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

**Table 11-29. Nationally representative physician office visits for male urinary tract infection listed as any diagnosis, 2002-2007 (merged), 6-year count**

	<b>6-Year Count</b>
Total	9,330,382
Age	
40-44	1,074,441
45-54	1,600,514
55-64	2,511,295
65-74	1,936,220
75-84	1,842,846
85+	365,066
Race/ethnicity	
White	7,389,184
Black	1,547,878
Hispanic	393,320
Region	
Northeast	1,306,267
South	4,436,890
Midwest	1,941,946
West	1,645,279

SOURCE: National Ambulatory Medical Care Survey, 2002-2007; National Hospital Ambulatory Medical Care Survey, 2002-2007.

**Table 11-30. Emergency room visits by Medicare beneficiaries for male urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=81,280)		2003 (N=86,080)		2004 (N=93,700)		2005 (N=93,720)		2006 (N=94,860)		2007 (N=97,880)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	520.5	504.0	535.5	532.2	572.0	562.0	568.3	563.7	584.0	577.0	602.4	591.5
Under 65/65+												
< 65 Years	540.7*	540.7	533.7	533.7	576.7	576.7	560.4*	560.4	570.4*	570.4	593.9*	593.9
▶ 65+ Years	513.8	504.0	536.1	532.2	570.4	562.0	571.0	563.7	588.9	577.0	605.5	591.5
Age												
▶ 65-69	294.0		308.8		339.4		359.4		325.2		357.5	
70-74	425.6*		442.6*		468.7*		442.6*		462.7*		474.5*	
75-79	573.9*		600.4*		604.7*		628.6*		606.1*		617.0*	
80-84	724.2*		835.4*		781.9*		765.1*		886.0*		881.9*	
85-89	968.9*		941.9*		1,186*		1,175*		1,254*		1,250*	
90-94	1,491*		1,270*		1,425*		1,262*		1,412*		1,645*	
95-97	1,347*♦		1,090*♦		1,920*		2,327*		2,965*		1,446*	
98+	486.3*♦		218.0*♦		815.1*♦		842.8*♦		494.0*♦		484.8*♦	
Race/ethnicity												
▶ White	467.4	462.7	493.9	500.6	517.6	516.1	533.7	535.6	546.5	552.5	567.8	569.0
Black	923.3*	948.2	907.0*	961.2	1,011*	1,127	918.2*	1,001	919.4*	980.2	942.4*	995.0
Hispanic	581.5*	643.3	658.4*	689.6	722.4*	689.6	607.5*	540.3	718.3*	682.1	774.6*	736.7
Asian	329.2*	302.0	114.7*♦	129.1	291.8*	185.4	227.6*♦	206.3	240.3*	217.4	257.5*	230.4
Other	821.5*	803.3	604.9*	535.3	737.0*	662.7	488.5*	495.0	609.9*	493.7	456.4*	439.7
Unknown	1,825*♦	...	1,442*♦	...	1,242*♦	...	1,403*♦	...	1,408*♦	...	2,016*♦	...
Region												
▶ Northeast	451.3	455.1	460.3	478.1	469.4	459.9	487.2	494.1	505.1	513.7	495.0	486.4
South	576.4*	532.3	606.2*	580.1	663.9*	643.5	656.1*	638.1	666.1*	651.5	661.7*	630.5
Midwest	544.9*	547.2	510.0*	525.5	564.9*	549.8	562.5*	566.3	579.4*	570.2	636.9*	645.2
West	434.8*	426.5	496.0*	495.2	488.3*	511.4	470.7*	470.1	494.9*	494.4	541.3*	545.6

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

♦Rate based on a count less than 600, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Centers for Medicare and Medicaid Services, 5% Standard Analytical Claims Files.

**Table 11-31. Emergency room visits by privately insured individuals for male urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=4,376)		2003 (N=3,758)		2004 (N=2,774)		2005 (N=2,290)		2006 (N=1,046)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	102.2	162.2	78.5	144.4	56.7	131.5	44.1	107.2	20.5	30.0
Age										
18-24	79.2*		53.8*		27.1*		16.8*		20.6*	
25-34	76.8*		54.3*		28.4*		19.2*		14.0*	
35-39	80.5*		55.4*		34.8*		17.2*		16.9*	
40-44	75.7*		58.6*		28.3*		18.5*		18.3*	
45-54	81.5*		58.1*		37.0*		22.0*		18.0*	
55-64	111.9*		100.4*		70.3*		44.0*		30.1	
▶ 65-74	287.5		219.1		210.5		185.3		35.5	
75-84	582.7*		506.4*		536.9*		483.8*		75.4*	
85+	...		745.4*		993.3*		843.9*		98.0**	
Race/ethnicity										
▶ White	90.2	131.1	73.8	129.7	49.9	118.7	35.4	93.5	12.9	16.1
Black	217.3*	258.0	174.5*	263.9	125.9*	230.6	97.9*	172.2	25.3*	27.7
Hispanic	94.7*	144.3	86.2*	171.8	46.3*	113.7	30.3*	69.1	28.6*	62.2
Asian	29.1**	126.6	34.3*	75.8	18.6**	43.7	17.0**	46.5	3.8**	12.0
Other	70.3**	437.4	68.3**	135.9	34.2**	88.1	23.0**	37.3	18.4**	49.8
Unknown	96.3*	...	89.9*	...	57.8*	...	39.9*	...	19.1*	...
Missing	110.2*	...	77.7*	...	81.9*	...	92.9*	...	59.9*	...
Region										
Northeast	45.7*	81.7	36.5*	73.6	30.8*	71.2	29.7*	83.5	7.0*	6.3
South	96.5*	158.9	74.3*	134.8	48.3*	119.2	37.7*	105.9	18.5*	30.3
▶ Midwest	154.4	228.4	124.8	213.2	101.5	203.6	77.9	156.2	37.2	56.9
West	31.1*	38.1	14.3*	20.8	2.3**	5.4	3.4**	9.5	5.2*	5.3

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

\*\*Rate based on a count less than 30, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.

<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

**Table 11-32. Nationally representative emergency room visits for male urinary tract infection listed as primary diagnosis, 2002-2007 (merged), 6-year count**

6-Year Count	
Total	1,779,117
Age	
40-44	229,309
45-54	305,622
55-64	278,554
65-74	323,748
75-84	429,498
85+	212,386
Race/ethnicity	
White	1,445,312
Black	273,612
Hispanic	17,998
Asian	11,120
Other	31,075
Region	
Northeast	359,599
South	674,427
Midwest	410,880
West	334,211

SOURCE: National Ambulatory Medical Care Survey, 2002-2007; National Hospital Ambulatory Medical Care Survey, 2002-2007.

**Table 11-33. Nationally representative inpatient stays by adult males for orchitis listed as primary diagnosis, count,<sup>a</sup> rate<sup>b</sup>**

	2002		2003		2004		2005		2006		2007	
	Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate
Total	12,810	12.6	13,718	13.2	15,619	15.1	16,023	15.3	17,135	16.1	17,503	16.2
Age												
18-24	495	3.6	618	4.5	646	4.6	762	5.4	723	5.1	715	5.0
25-34	1,555	8.1	1,560	8.0	1,820	9.3	2,114	10.7	2,037	10.3	2,075	10.4
35-44	2,590	11.9	2,820	13.0	3,334	15.5	3,286	15.3	3,257	15.2	3,513	16.6
45-54	2,819	14.6	3,161	16.1	3,541	17.6	3,734	18.2	3,900	18.6	4,094	19.2
55-64	1,970	15.9	2,046	15.5	2,492	18.4	2,403	17.1	2,701	18.2	2,603	16.8
65-74	1,540	18.7	1,762	21.3	1,816	21.7	1,797	21.2	2,108	24.7	2,295	26.3
Race/ethnicity												
White	5,670	6.7	6,176	8.4	7,059	9.6	7,404	10.1	7,784	10.5	7,965	10.7
Black	1,891	17.5	2,118	20.0	2,217	20.8	1,856	17.0	2,237	20.1	2,653	23.5
Hispanic	1,211	†	1,599	11.9	1,693	12.4	1,858	13.1	2,253	15.4	2,011	13.1
Asian	†	†	†	†	167	†	†	†	†	†	191	†
Region												
Northeast	2,413	12.1	2,953	14.8	2,805	14.5	2,725	13.9	3,171	16.0	3,169	16.0
South	5,432	15.2	5,607	15.3	6,669	18.0	7,129	18.9	7,464	19.6	7,360	19.0
Midwest	2,952	12.7	2,919	12.5	3,345	14.2	3,272	14.0	3,674	15.5	3,878	16.2
West	2,013	8.7	2,239	9.4	2,800	11.7	2,898	11.9	2,827	11.4	3,071	12.2

† Figure does not meet standard for reliability or precision.

<sup>a</sup>Counts may not sum to total due to rounding.

<sup>b</sup>Rate per 100,000 based on 2002-2007 population estimates from the Public Use Microdata Sample (PUMS) files from the American Community Survey, for relevant demographic categories of US adult male civilian non-institutionalized population.

SOURCE: Healthcare Cost and Utilization Project Nationwide Inpatient Sample, 2002-2007.



**Table 11-34. Diabetes diagnosis as a comorbidity in adult males hospitalized for urinary tract infection, count,<sup>a</sup> rate<sup>b</sup>**

	2002		2003		2004		2005		2006		2007	
	Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate
Total	126,391	124.0	130,201	125.6	136,037	131.1	141,615	134.9	144,337	135.7	146,828	136.1
Without diabetes as listed diagnosis	92,123	90.4	94,628	91.3	97,697	94.2	100,684	95.9	100,876	94.9	101,376	94.0
With diabetes as listed diagnosis	34,267	33.6	35,574	34.3	38,340	37.0	40,931	39.0	43,461	40.9	45,452	42.1

<sup>a</sup>Counts may not sum to total due to rounding.

<sup>b</sup>Rate per 100,000 based on 2002-2007 population estimates from the Public Use Microdata Sample (PUMS) files from the American Community Survey, for relevant demographic categories of US adult male civilian non-institutionalized population.

SOURCE: Healthcare Cost and Utilization Project Nationwide Inpatient Sample, 2002-2007.

**Table 11-35. Inpatient stays by privately insured individuals for pediatric urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=1,717)		2003 (N=1,750)		2004 (N=1,570)		2005 (N=1,574)		2006 (N=1,580)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	50.5	50.5	47.6	48.1	43.0	43.5	43.1	43.4	43.5	43.5
Age										
▶ 0-2	165.4		164.2		147.5		144.1		151.5	
3-10	32.2*		27.9*		25.2*		25.6*		24.5*	
11-17	23.1*		22.2*		20.5*		21.3*		19.6*	
Race/ethnicity										
▶ White	44.2	44.6	47.4	47.8	41.2	41.3	39.5	39.4	40.1	39.9
Black	40.3*	43.4	49.6*	53.3	39.8*	42.9	37.5*	39.1	40.6*	43.2
Hispanic	76.5*	81.8	70.3*	74.8	62.6*	66.3	67.6*	72.3	58.5*	62.2
Asian	87.8*	75.8	59.1*	51.7	55.3*	48.3	53.0*	45.5	51.3*	45.7
Other	44.2* <sup>†</sup>	76.2	42.6* <sup>†</sup>	40.4	46.9* <sup>†</sup>	68.7	30.4* <sup>†</sup>	54.3	34.9* <sup>†</sup>	32.7
Unknown	52.7*	...	52.8*	...	48.1*	...	39.6*	...	44.2*	...
Missing	52.0*	...	42.7*	...	35.8*	...	45.1*	...	47.1*	...
Region										
Northeast	58.8*	56.1	48.4	46.6	47.1	45.5	52.3*	50.8	47.8	46.7
South	53.1	54.5	51.7*	53.8	45.0	46.9	43.6	44.9	43.1	43.8
▶ Midwest	48.7	48.5	45.1	45.1	41.1	41.1	41.8	41.9	43.8	43.8
West	40.8*	39.1	40.6*	40.2	38.1*	37.6	37.5*	36.8	41.1*	40.2
Gender										
Female	73.5*	73.4	65.2*	65.7	62.3*	62.9	62.1*	62.5	62.3*	62.4
▶ Male	28.5	28.5	30.7	31.2	24.6	25.0	24.9	25.1	25.4	25.4

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

<sup>†</sup>Rate based on a count less than 30, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.

<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: I3 Claims Database, 2002-2006.

**Table 11-36. Hospital outpatient visits by privately insured individuals for pediatric urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=13,956)		2003 (N=14,903)		2004 (N=16,809)		2005 (N=18,810)		2006 (N=18,391)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	410.6	405.8	405.4	401.6	460.6	457.2	515.1	512.4	506.1	502.7
Age										
▶ 0-2	592.9		549.4		592.2		622.3		612.2	
3-10	490.1*		499.2*		569.7*		633.3*		612.9*	
11-17	240.9*		238.6*		283.6*		340.1*		342.0*	
Race/ethnicity										
▶ White	451.5	446.2	460.1	455.4	498.1	492.5	555.7	550.8	549.4	544.0
Black	319.6*	324.2	337.5*	342.1	294.4*	295.1	413.1*	415.9	477.0*	478.0
Hispanic	555.0*	563.2	500.5*	507.7	487.5*	492.2	528.4*	537.8	497.1*	503.8
Asian	458.9*	420.0	389.8*	361.0	414.1*	381.4	388.0*	360.5	399.9*	365.1
Other	466.8*	454.2	375.9*	360.4	370.0*	363.8	420.6*	413.2	375.9*	371.4
Unknown	462.0*	...	494.2*	...	490.1*	...	475.6*	...	510.6*	...
Missing	368.8*	...	323.9*	...	369.3*	...	424.3*	...	377.5*	...
Region										
Northeast	472.4*	459.2	442.0*	430.3	517.6*	508.2	577.5	570.3	638.9*	629.2
South	397.1	398.9	377.0*	379.7	405.8*	409.5	431.4*	434.2	417.2*	418.5
▶ Midwest	398.1	393.3	400.4	395.9	475.4	470.5	570.3	566.5	575.0	570.7
West	441.9*	432.1	483.4*	473.3	556.1*	546.3	587.6*	578.2	521.7*	514.1
Gender										
Female	695.6*	687.5	690.6*	684.0	794.9*	789.1	892.7*	888.3	877.7*	872.4
▶ Male	137.9	137.3	132.4	132.1	140.4	140.3	153.9	153.7	151.1	150.4

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group (p&lt;.05).

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

**Table 11-37. Nationally representative hospital outpatient visits for pediatric urinary tract infection listed as primary diagnosis, 2002-2007 (merged), 6-year count**

	<b>6-Year Count</b>
Total	787,215
Age	
0-2	120,529
3-10	369,097
11-17	297,589
Race/ethnicity	
White	566,930
Black	169,932
Hispanic	19,115
Asian	14,308
Other	16,930
Region	
Northeast	169,105
South	186,694
Midwest	291,873
West	139,543
Gender	
Female	667,373
Male	119,842

SOURCE: National Ambulatory Medical Care Survey, 2002-2007; National Hospital Ambulatory Medical Care Survey, 2002-2007.

**Table 11-38. Ambulatory surgery center visits by privately insured individuals for pediatric urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=164)		2003 (N=153)		2004 (N=163)		2005 (N=168)		2006 (N=150)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	4.8	4.8	4.2	4.1	4.5	4.4	4.6	4.6	4.1	4.1
Age										
▶ 0-2	7.0		6.1		9.7		11.1		7.9	
3-10	5.6*		5.2*		5.0*		4.9*		4.8*	
11-17	3.0*		2.2*		1.7**		1.6**		1.8**	
Race/ethnicity										
▶ White	6.7	6.7	5.7	5.6	5.1	5.0	4.5	4.4	4.6	4.5
Black	...	...	2.7**	2.8	0.5**	3.8	0.6**	1.3	1.2**	2.8
Hispanic	4.5**	3.8	2.6**	2.7	1.5**	2.4	3.3**	3.5	2.9**	3.0
Asian	7.3**	10.4	1.3**	6.3	1.9**	2.5	2.8**	4.1	1.8**	2.6
Other	4.9**	14.9	3.5**	7.4	5.2**	6.5	2.5**	13.3	...	...
Unknown	7.1**	...	5.2**	...	7.4**	...	8.1**	...	7.2**	...
Missing	3.5*	...	2.9*	...	4.5**	...	6.3*	...	3.5**	...
Region										
Northeast	3.1**	2.6	1.0**	1.0	1.8**	2.9	1.0**	1.0	1.0**	2.4
South	2.8*	2.8	3.0*	3.0	2.1*	2.1	2.2*	2.2	2.2*	2.2
▶ Midwest	7.8	7.7	7.1	7.0	9.1	8.9	9.7	9.6	8.9	8.8
West	4.0**	4.3	2.4**	2.4	2.2**	2.1	2.2**	2.2	1.7**	1.7
Gender										
Female	8.7*	8.6	7.2*	7.1	7.6*	7.5	7.8*	7.8	6.4*	6.3
▶ Male	1.2*	1.2	1.3*	1.3	1.5*	1.5	1.6*	1.6	2.0	2.0

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

\*\*Rate based on a count less than 30, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.

<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

**Table 11-39. Nationally representative ambulatory surgery center visits for pediatric<sup>a</sup> urinary tract infection listed as primary diagnosis, count, rate<sup>b</sup>**

	Count	Rate
Total	6,754	9.1
Gender		
Female	5,479	15.2
▶ Male	1,275	3.4

▶ Denotes reference group.

<sup>a</sup>Individuals under 18.

<sup>b</sup>Rate per 100,000 individuals in the same demographic stratum is based on 2006 population estimates from Current Population Survey (CPS).

SOURCE: National Survey of Ambulatory Surgery, 2006.

**Table 11-40. Physician office visits by privately insured individuals for pediatric urinary tract infection listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=75,123)		2003 (N=73,829)		2004 (N=69,856)		2005 (N=70,050)		2006 (N=67,015)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	2,210	2,194	2,008	1,994	1,914	1,903	1,918	1,910	1,844	1,836
Age										
▶ 0-2	2,139		1,839		1,770		1,783		1,746	
3-10	2,609*		2,420*		2,290*		2,288*		2,167*	
11-17	1,777*		1,606*		1,548*		1,563*		1,523*	
Race/ethnicity										
▶ White	2,447	2,428	2,266	2,248	2,001	1,988	1,995	1,985	1,925	1,914
Black	1,692*	1,678	1,603*	1,601	1,237*	1,231	1,282*	1,283	1,340*	1,340
Hispanic	2,815*	2,816	2,457*	2,458	2,058*	2,058	2,094*	2,105	2,062*	2,073
Asian	2,105*	2,010	1,833*	1,756	1,666*	1,592	1,615*	1,541	1,500*	1,418
Other	2,039*	2,028	1,979*	1,966	1,686*	1,662	1,763*	1,745	1,710*	1,696
Unknown	2,365*	...	2,157*	...	1,950*	...	1,838*	...	1,821*	...
Missing	2,017*	...	1,670*	...	1,790*	...	1,812*	...	1,628*	...
Region										
Northeast	2,236*	2,190	2,032*	1,994	2,026*	1,992	1,912*	1,888	1,862*	1,841
South	2,424*	2,418	2,157*	2,152	2,011*	2,012	2,050*	2,051	1,975*	1,975
▶ Midwest	1,994	1,981	1,817	1,805	1,725	1,717	1,732	1,726	1,667	1,661
West	2,145*	2,122	2,052*	2,027	2,014*	1,990	1,989*	1,966	1,842*	1,824
Gender										
Female	3,760*	3,732	3,429*	3,402	3,303*	3,283	3,310*	3,296	3,188*	3,175
▶ Male	726.6	723.3	649.0	647.2	583.8	582.8	586.4	585.6	559.1	557.0
Unknown	2,576* <sup>†</sup>	...	1,669* <sup>†</sup>	...	1,778*	...	1,437* <sup>†</sup>	...	1,063* <sup>†</sup>	...

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

<sup>†</sup>Rate based on a count less than 30, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.

<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

**Table 11-41. Nationally representative physician office visits for pediatric urinary tract infection listed as any diagnosis, 2002-2007 (merged), 6-year count**

	<b>6-Year Count</b>
Total	7,263,694
Age	
0-2	1,636,122
3-10	3,562,332
11-17	2,065,240
Race/ethnicity	
White	5,698,564
Black	934,063
Hispanic	631,067
Region	
Northeast	1,563,326
South	2,757,536
Midwest	1,790,276
West	1,152,556
Gender	
Female	5,458,714
Male	1,804,980

SOURCE: National Ambulatory Medical Care Survey, 2002-2007; National Hospital Ambulatory Medical Care Survey, 2002-2007.

**Table 11-42. Emergency room visits by privately insured individuals for pediatric urinary tract infection listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=5,560)		2003 (N=4,402)		2004 (N=2,896)		2005 (N=2,361)		2006 (N=2,115)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	163.6	163.4	119.7	119.6	79.3	79.2	64.7	64.5	58.2	58.0
Age										
▶ 0-2	165.6		129.0		82.7		76.7		68.1	
3-10	167.1*		122.9*		84.1*		70.7*		65.7*	
11-17	158.6*		112.3*		72.6*		53.0*		45.6*	
Race/ethnicity										
▶ White	147.1	147.0	107.5	107.4	56.3	56.3	39.3	39.2	36.2	36.1
Black	295.2*	293.8	203.7*	205.6	107.4*	107.6	87.9*	88.8	49.6*	50.2
Hispanic	223.8*	225.4	178.0*	179.8	128.9*	129.7	100.0*	101.5	96.4*	97.5
Asian	80.5*	77.9	56.4*	55.1	34.9*	34.1	38.1*	36.7	26.1*♦	26.5
Other	196.5*	188.1	127.7*	126.0	86.0*	85.4	48.1*♦	47.7	47.3*♦	46.3
Unknown	133.0*	...	116.6*	...	60.8*	...	40.4*	...	35.3*	...
Missing	166.0*	...	119.2*	...	139.7*	...	155.9*	...	141.2*	...
Region										
Northeast	83.7*	84.6	69.5*	69.9	52.4*	52.0	38.6*	38.9	47.0*	46.8
South	132.1*	132.0	98.6*	98.8	55.4*	55.4	40.6*	40.8	47.9*	48.0
▶ Midwest	258.2	258.1	194.9	194.5	146.2	145.9	127.8	127.5	100.0	99.6
West	55.0*	54.3	18.5*	18.7	2.4*♦	2.3	4.4*♦	4.4	5.3*♦	6.3
Gender										
Female	287.0*	286.6	206.2*	205.7	137.3*	136.9	112.8*	112.4	102.3*	101.8
▶ Male	45.6	45.5	37.1	37.3	23.9	24.0	18.7	18.7	16.1	16.1

... Data unavailable.

▶ Denotes reference group.

\*Statistically different from reference group ( $p < .05$ ).

♦Rate based on a count less than 30, should be interpreted with caution.

<sup>a</sup>Rate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.

<sup>b</sup>Rate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

**Table 11-43. Nationally representative emergency room visits for pediatric urinary tract infection listed as primary diagnosis, 2002-2007 (merged), 6-year count**

	<b>6-Year Count</b>
Total	2,001,649
Age	
0-2	360,918
3-10	839,464
11-17	801,267
Race/ethnicity	
White	1,513,361
Black	448,416
Hispanic	19,354
Asian	9,350
Other	11,168
Region	
Northeast	256,334
South	952,625
Midwest	424,513
West	368,177
Gender	
Female	1,645,765
Male	355,884

SOURCE: National Ambulatory Medical Care Survey, 2002-2007; National Hospital Ambulatory Medical Care Survey, 2002-2007.