

# **CHAPTER 7**

## **Perinatal Hydronephrosis**

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**Ureterocele**  
**Ureteropelvic Junction Obstruction**  
**Posterior Urethral Valves**  
**Vesicoureteral Reflux**

**Table 7-1. Codes used in the diagnosis and management of perinatal hydronephrosis****Vesicoureteral Reflux****Individuals with one or more of the following:***ICD-9 diagnosis codes*

593.7	Vesicoureteral reflux
593.70	Vesicoureteral reflux, unspecified or without reflux nephropathy
593.71	Vesicoureteral reflux with reflux nephropathy, unilateral
593.72	Vesicoureteral reflux with reflux nephropathy, bilateral
593.73	Other vesicoureteral reflux with reflux nephropathy NOS

*CPT procedure codes*

50660 <sup>a</sup>	Ureterectomy, total, ectopic ureter, combination abdominal, vaginal and/or perineal approach
50780 <sup>a</sup>	Ureteroneocystostomy; anastomosis of single ureter to bladder
50781 <sup>a</sup>	Ureteroneocystostomy
50782	Ureteroneocystostomy; anastomosis of duplicated ureter to bladder
50783	Ureteroneocystostomy; with extensive ureteral tailoring
50785	Ureteroneocystostomy; with vesico-psoas hitch or bladder flap
50947 <sup>a</sup>	Laparoscopy, surgical; ureteroneocystostomy with cystoscopy and ureteral stent placement
50948 <sup>a</sup>	Laparoscopy, surgical; ureteroneocystostomy without cystoscopy and ureteral stent placement
52327	Cystourethroscopy (including ureteral catheterization); with subureteric injection of implant material

**Posterior Urethral Valves****Males with one or more of the following:***ICD-9 diagnosis codes*

753.6	Congenital atresia and stenosis of urethra and bladder neck
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*CPT procedure codes*

52340	Cystourethroscopy with incision, fulguration, or resection of congenital posterior urethral valves, or congenital obstructive hypertrophic mucosal folds
52400	Cystourethroscopy with incision, fulguration, or resection of congenital posterior urethral valves, or congenital obstructive hypertrophic mucosal folds

**Ureterocele****Individuals with one or more of the following:***ICD-9 diagnosis codes*

593.89	Other specified disorders of kidney and ureter
753.23	Congenital ureterocele

*CPT procedure codes*

50660	Ureterectomy, total, ectopic ureter, combination abdominal, vaginal and/or perineal approach
51535	Cystotomy for excision, incision, or repair of ureterocele
52300	Cystourethroscopy; with resection or fulguration of orthotopic ureterocele(s), unilateral or bilateral
52301	Cystourethroscopy; with resection or fulguration of ectopic ureterocele(s), unilateral or bilateral

**Ureteropelvic Junction Obstruction****Individuals with one or more of the following:***ICD-9 diagnosis codes*

753.2	Obstructive defects of renal pelvis and ureter
753.20	Unspecified obstructive defect of renal pelvis and ureter
753.21	Congenital obstruction of ureteropelvic junction

Continued on next page.

**Table 7-1 (continued). Codes used in the diagnosis and management of perinatal hydronephrosis**


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<i>CPT procedure codes</i>	
50400	Pyeloplasty (Foley Y-pyeloplasty), plastic operation on renal pelvis, with or without plastic operation on ureter, nephropexy, nephrostomy, pyelostomy, or ureteral splinting; simple
50405	Pyeloplasty (Foley Y-pyeloplasty), plastic operation on renal pelvis, with or without plastic operation on ureter, nephropexy, nephrostomy, pyelostomy, or ureteral splinting; complicated (congenital kidney abnormality, secondary pyeloplasty, solitary kidney, calyccoplasty)
50540	Symphysiotomy for horseshoe kidney with or without pyeloplasty and/or other plastic procedure, unilateral or bilateral (1 operation)
50544	Laparoscopy, surgical; pyeloplasty
50575	Renal endoscopy through nephrotomy or pyelotomy, with or without irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with endopyelotomy (includes cystoscopy, ureteroscopy, dilation of ureter and ureteral pelvic junction, incision of ureteral pelvic junction and insertion of endopyelotomy stent)
50740	Ureteropyelostomy, anastomosis of ureter and renal pelvis
50750	Ureterocalycostomy, anastomosis of ureter and renal calyx
52342	Cystourethroscopy; with treatment of ureteropelvic junction stricture (eg, balloon dilation, laser, electrocautery, and incision)
52346	Cystourethroscopy with ureteroscopy; with treatment of intra-renal stricture (eg, balloon dilation, laser, electrocautery, and incision)

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<sup>a</sup>Include only if patient under 30 years old.

Table 7-2. Nationally representative inpatient stays for ureterocele listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>

	2002 (N=2,099)		2003 (N=1,711)		2004 (N=1,708)		2005 (N=1,442)		2006 (N=1,418)		2007 (N=1,306)	
	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	1.0	1.0	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.6
Age												
18-24	0.6		0.3		0.6		0.3		0.3		0.2	
25-34	0.9		0.6		0.7		0.5		0.5		0.4	
35-39	0.7		0.7		0.5		0.6		0.5		0.4	
40-44	1.0		0.8		0.6		0.4		0.5		0.5	
45-54	0.9		0.8		0.7		0.6		0.5		0.5	
55-64	1.2		0.8		0.8		0.9		0.9		0.8	
▶ 65-74	1.4		1.2		1.2		1.1		1.1		1.0	
75-84	1.5*		1.2*		1.7*		0.9*		1.5*		1.2*	
85+	2.4*		2.7*		2.8*		2.1*		1.6*		1.6*	
Race/ethnicity												
▶ White	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4
Black	0.5*	0.5	0.4*	0.5	0.6*	0.6	0.4*	0.4	0.3*	0.4	0.5*	0.5
Hispanic	†	†	0.4*	0.4	0.5*	0.5	0.5*	0.5	0.3*	0.3	0.2*	0.3
Asian	0.4*	0.8	0.4*	1.0	0.4*	0.5	†	0.5	†	0.3	0.4*	0.6
Other	1.7*	2.4	†	1.7	†	1.5	†	1.3	0.8*	1.1	1.0*	1.4
Region												
Northeast	0.8	0.8	0.6	0.6	0.8	0.8	0.6	0.6	0.7	0.7	0.5	0.5
South	1.2	1.2	0.9	0.9	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.6
▶ Midwest	1.1	1.1	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.7
West	0.7*	0.7	0.7*	0.7	0.6*	0.6	0.5*	0.5	0.5*	0.5	0.5*	0.5
Gender												
Female	1.0	1.0	0.7	0.7	0.9	0.9	0.7	0.7	0.8	0.8	0.6	0.6
▶ Male	1.0	1.0	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5

▶ 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 7-3. Nationally representative inpatient stays for ureterocele listed as primary diagnosis, count,<sup>a</sup> rate,<sup>b</sup> percentage of all hospitalizations<sup>c</sup>**

	2003			2006		
	Count	Rate	Percent	Count	Rate	Percent
Total	645	0.88	0.010%	597	0.81	0.009%
Age						
0-2	421	3.65	0.006%	406	3.31	0.006%
3-10	138	0.43	0.002%	125	0.39	0.002%
11-17	86	0.29	0.001%	66	0.22	0.001%
Race/ethnicity						
White	336	0.77	0.005%	247	0.58	0.004%
Black	†	†	†	†	†	†
Hispanic	100	0.75	0.002%	111	0.75	0.002%
Region						
Northeast	106	0.82	0.002%	134	1.04	0.002%
South	235	0.90	0.004%	216	0.80	0.003%
Midwest	155	0.94	0.002%	126	0.78	0.002%
West	150	0.85	0.002%	121	0.67	0.002%
Gender						
Male	232	0.62	0.004%	240	0.63	0.004%
Female	413	1.15	0.006%	358	0.99	0.005%

† 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 civilian non-institutionalized population under age 18.

<sup>c</sup>Percent of all hospitalizations in each year within each demographic group.

SOURCE: Healthcare Cost and Utilization Project Kids' Inpatient Database, 2003 and 2006.

Table 7-4. Inpatient stays by privately insured individuals for ureterocele listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>

	2002 (N=820)		2003 (N=1,041)		2004 (N=1,077)		2005 (N=1,197)		2006 (N=970)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	6.7	...	7.7	...	7.9	...	8.4	...	6.9	...
Age										
▶ 0-2	11.5		14.2		14.5		15.1		19.1	
3-10	1.3*♦		1.2*♦		1.6*♦		1.9*		1.5*♦	
11-17	0.9*♦		1.7*♦		1.5*♦		1.2*♦		1.5*♦	
18-24	4.1*		3.7*		3.9*		3.6*		2.7*	
25-34	4.4*		4.6*		5.5*		5.2*		4.6*	
35-39	5.0*		6.1*		6.3*		6.3*		6.0*	
40-44	5.0*		7.3*		5.6*		7.6*		5.5*	
45-54	9.2*		10.3*		10.2*		9.6*		9.0*	
55-64	15.1*		14.8*		14.5*		14.5*		12.5*	
65-74	20.1*		25.7*		25.9*		29.4*		22.0*	
75-84	37.6*		38.3*		42.5*		44.1*		44.2*	
85+	...		72.3*		63.3*		63.4*		41.9*♦	
Race/ethnicity										
▶ White	6.1	...	8.2	...	7.8	...	8.5	...	7.2	...
Black	11.1*	...	8.8*	...	6.7*	...	8.4*	...	5.1*	...
Hispanic	5.1*♦	...	6.8*	...	7.4*	...	8.1*	...	5.1*	...
Asian	4.2*♦	...	6.1*♦	...	5.4*♦	...	6.0*♦	...	6.5*♦	...
Other	1.6*♦	...	4.6*♦	...	8.3*♦	...	7.0*♦	...	2.3*♦	...
Unknown	6.0*♦	...	7.0*	...	6.4*	...	7.1*	...	8.5*	...
Missing	7.2*	...	7.3*	...	9.5*	...	8.9*	...	7.0*	...
Region										
Northeast	6.5	...	6.9*	...	9.3	...	8.8	...	8.7	...
South	6.6*	...	7.2*	...	7.7	...	8.4*	...	6.5	...
▶ Midwest	7.7	...	9.4	...	8.3	...	9.8	...	7.3	...
West	4.6*	...	5.5*	...	5.9*	...	5.0*	...	6.1*	...
Missing	...	...	...	...	...	...	...	...	...	...
Gender										
Female	7.0*	...	8.2*	...	8.5*	...	8.8*	...	8.0*	...
▶ Male	6.4	...	7.1	...	7.3	...	7.9	...	5.8	...

... 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 7-5. Hospital outpatient visits by Medicare beneficiaries for ureterocele listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=740)		2003 (N=820)		2004 (N=720)		2005 (N=980)		2006 (N=780)		2007 (N=900)	
	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	2.1	1.9	2.2	2.0	1.9	1.9	2.6	2.5	2.1	2.1	2.5	2.7
Under 65/65+												
< 65 Years	2.5 <sup>*♦</sup>	2.5	3.4 <sup>*♦</sup>	3.4	2.5 <sup>*♦</sup>	2.5	2.9 <sup>*♦</sup>	2.9	2.7 <sup>*♦</sup>	2.7	1.4 <sup>*♦</sup>	1.4
▶ 65+ Years	2.0 <sup>♦</sup>	1.9	1.9 <sup>♦</sup>	2.0	1.8 <sup>♦</sup>	1.9	2.6	2.5	2.0 <sup>♦</sup>	2.1	2.8	2.7
Age												
▶ 65-69	1.8 <sup>♦</sup>		2.0 <sup>♦</sup>		1.0 <sup>♦</sup>		1.0 <sup>♦</sup>		2.5 <sup>♦</sup>		3.2 <sup>♦</sup>	
70-74	1.7 <sup>*♦</sup>		2.0 <sup>*♦</sup>		1.8 <sup>*♦</sup>		2.1 <sup>*♦</sup>		1.2 <sup>*♦</sup>		2.5 <sup>*♦</sup>	
75-79	1.4 <sup>*♦</sup>		1.7 <sup>*♦</sup>		2.0 <sup>*♦</sup>		3.8 <sup>*♦</sup>		1.4 <sup>*♦</sup>		1.5 <sup>*♦</sup>	
80-84	3.8 <sup>*♦</sup>		2.3 <sup>*♦</sup>		1.8 <sup>*♦</sup>		4.5 <sup>*♦</sup>		3.2 <sup>*♦</sup>		2.9 <sup>*♦</sup>	
85-89	0.9 <sup>*♦</sup>		1.7 <sup>*♦</sup>		4.1 <sup>*♦</sup>		2.5 <sup>*♦</sup>		2.5 <sup>*♦</sup>		4.0 <sup>*♦</sup>	
90-94	2.1 <sup>*♦</sup>		2.0 <sup>*♦</sup>		2.0 <sup>*♦</sup>		2.0 <sup>*♦</sup>		0.0 <sup>*♦</sup>		3.9 <sup>*♦</sup>	
95-97	...		0.0 <sup>*♦</sup>		...		9.7 <sup>*♦</sup>		...		9.9 <sup>*♦</sup>	
98+	10.8 <sup>*♦</sup>		...		...		...		...		...	
Race/ethnicity												
▶ White	1.8 <sup>♦</sup>	1.6	1.9	1.8	1.2 <sup>♦</sup>	1.1	1.9 <sup>♦</sup>	2.0	2.0	2.1	2.1	2.3
Black	5.2 <sup>*♦</sup>	5.8	4.4 <sup>*♦</sup>	2.9	4.9 <sup>*♦</sup>	5.3	3.3 <sup>*♦</sup>	2.0	1.1 <sup>*♦</sup>	1.0	5.1 <sup>*♦</sup>	6.1
Hispanic	0.0 <sup>*♦</sup>	0.0	2.9 <sup>*♦</sup>	8.4	8.5 <sup>*♦</sup>	10.9	2.7 <sup>*♦</sup>	0.0	2.8 <sup>*♦</sup>	0.0	0.0 <sup>*♦</sup>	0.0
Asian	0.0 <sup>*♦</sup>	0.0	0.0 <sup>*♦</sup>	0.0	0.0 <sup>*♦</sup>	0.0	6.7 <sup>*♦</sup>	8.7	3.3 <sup>*♦</sup>	5.0	3.2 <sup>*♦</sup>	9.0
Other	3.5 <sup>*♦</sup>	7.0	6.3 <sup>*♦</sup>	4.9	15.1 <sup>*♦</sup>	26.8	22.8 <sup>*♦</sup>	43.3	2.8 <sup>*♦</sup>	4.9	5.4 <sup>*♦</sup>	11.3
Unknown	0.0 <sup>*♦</sup>	...	...	...	...	...	88.2 <sup>*♦</sup>	...	93.8 <sup>*♦</sup>	...	33.7 <sup>*♦</sup>	...
Region												
▶ Northeast	3.4 <sup>♦</sup>	2.5	2.8 <sup>♦</sup>	2.1	2.2 <sup>♦</sup>	2.8	2.8 <sup>♦</sup>	2.2	2.9 <sup>♦</sup>	2.3	3.4 <sup>♦</sup>	3.9
South	1.2 <sup>*♦</sup>	1.1	2.6 <sup>*♦</sup>	2.3	0.8 <sup>*♦</sup>	0.9	1.3 <sup>*♦</sup>	1.1	1.7 <sup>*♦</sup>	2.0	1.7 <sup>*♦</sup>	1.8
Midwest	2.2 <sup>*♦</sup>	2.3	1.1 <sup>*♦</sup>	1.1	1.5 <sup>*♦</sup>	1.1	3.9 <sup>*♦</sup>	4.3	2.0 <sup>*♦</sup>	1.8	2.9 <sup>*♦</sup>	3.8
West	2.4 <sup>*♦</sup>	2.7	2.7 <sup>*♦</sup>	2.5	4.9 <sup>*♦</sup>	4.0	3.8 <sup>*♦</sup>	3.7	2.6 <sup>*♦</sup>	2.5	2.5 <sup>*♦</sup>	2.1
Gender												
Female	1.2 <sup>*♦</sup>	1.4	1.6 <sup>*♦</sup>	1.4	1.6 <sup>*♦</sup>	1.9	2.0 <sup>*♦</sup>	2.2	1.8 <sup>*♦</sup>	1.7	3.1 <sup>*♦</sup>	3.8
▶ Male	3.2 <sup>♦</sup>	2.6	3.1 <sup>♦</sup>	2.7	2.4 <sup>♦</sup>	1.8	3.4 <sup>♦</sup>	3.0	2.6 <sup>♦</sup>	2.6	1.7 <sup>♦</sup>	1.4

... 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 7-6. Hospital outpatient visits by privately insured individuals for ureterocele listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=1,140)		2003 (N=1,192)		2004 (N=1,235)		2005 (N=1,259)		2006 (N=1,163)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	9.3		8.8		9.0		8.8		8.3	
Age										
▶ 0-2	19.4		22.4		21.9		21.6		21.8	
3-10	5.7*		4.7*		4.2*		4.5*		3.9*	
11-17	2.5*		2.6*		3.3*		2.8*		4.1*	
18-24	2.8*		4.5*		5.4*		4.5*		5.0*	
25-34	6.9*		6.0*		6.3*		5.4*		5.7*	
35-39	9.3*		9.1*		8.6*		9.6*		6.3*	
40-44	9.6*		6.7*		8.1*		7.1*		6.5*	
45-54	11.9*		9.6*		10.8*		10.6*		9.5*	
55-64	19.2*		17.8*		16.3*		15.5*		15.1*	
65-74	21.6*		27.3*		21.8*		18.4*		21.3	
75-84	19.2*		23.4*		25.1*		28.8*		38.2*	
85+	...		11.3*♦		10.6*♦		10.8*♦		17.6*♦	
Race/ethnicity										
▶ White	11.0	...	9.9	...	9.4	...	9.0	...	8.9	...
Black	6.0*♦	...	7.5*	...	7.5*	...	8.1*	...	7.9*	...
Hispanic	8.2*	...	7.5*	...	8.3*	...	7.3*	...	5.6*	...
Asian	5.7*♦	...	7.2*♦	...	9.3*	...	4.3*♦	...	4.7*♦	...
Other	18.1*♦	...	10.5*♦	...	9.1*♦	...	10.1*♦	...	3.1*♦	...
Unknown	8.8*	...	11.5*	...	10.0*	...	8.6*	...	8.7*	...
Missing	8.4*	...	7.5*	...	7.7*	...	10.0*	...	8.1*	...
Region										
Northeast	6.3*	...	7.1*	...	8.8	...	9.1	...	9.0	...
South	9.4*	...	8.3*	...	8.6*	...	7.8*	...	7.3*	...
▶ Midwest	10.7	...	10.7	...	10.2	...	10.6	...	9.8	...
West	8.0*	...	7.2*	...	7.6*	...	7.7*	...	7.6*	...
Gender										
Female	9.6	...	8.7	...	9.5*	...	9.0	...	8.7*	...
▶ Male	9.0	...	8.9	...	8.5	...	8.5	...	7.9	...

... 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 7-7. Nationally representative hospital outpatient visits for ureterocele listed as primary diagnosis, 2002-2007 (merged), 6-year count**

6-Year Count	
Total	6,223

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



**Table 7-8. Ambulatory surgery center visits by Medicare beneficiaries for ureterocele listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=1,120)		2003 (N=1,200)		2004 (N=1,380)		2005 (N=1,020)		2006 (N=1,220)		2007 (N=1,340)	
	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	3.5	4.0	3.8	4.5	4.5	5.1	3.3	3.9	4.2	4.7	4.0	3.9
Age												
▶ 65-69	3.1 <sup>♦</sup>		3.3 <sup>♦</sup>		4.4 <sup>♦</sup>		4.2 <sup>♦</sup>		3.5 <sup>♦</sup>		1.7 <sup>♦</sup>	
70-74	5.8 <sup>*♦</sup>		2.6 <sup>*♦</sup>		6.5 <sup>*♦</sup>		3.3 <sup>*♦</sup>		4.0 <sup>♦</sup>		4.4 <sup>*♦</sup>	
75-79	4.4 <sup>*♦</sup>		8.7 <sup>*♦</sup>		6.4 <sup>*♦</sup>		5.2 <sup>*♦</sup>		4.6 <sup>*♦</sup>		4.1 <sup>*♦</sup>	
80-84	4.3 <sup>*♦</sup>		3.7 <sup>*♦</sup>		2.3 <sup>*♦</sup>		3.6 <sup>*♦</sup>		8.3 <sup>*♦</sup>		7.6 <sup>*♦</sup>	
85-89	0.9 <sup>*♦</sup>		4.2 <sup>*♦</sup>		4.9 <sup>*♦</sup>		2.5 <sup>*♦</sup>		4.1 <sup>*♦</sup>		2.4 <sup>*♦</sup>	
90-94	2.1 <sup>*♦</sup>		4.1 <sup>*♦</sup>		4.0 <sup>*♦</sup>		...		2.0 <sup>*♦</sup>		3.9 <sup>*♦</sup>	
95-97	...		...		19.7 <sup>*♦</sup>		...		...		...	
Race/ethnicity												
▶ White	3.6	4.1	3.9	4.6	4.9	5.4	3.8	4.3	4.6	5.1	4.5	4.4
Black	2.9 <sup>*♦</sup>	3.3	3.3 <sup>*♦</sup>	2.7	1.1 <sup>♦</sup>	2.9	1.6 <sup>*♦</sup>	4.6	1.7 <sup>*♦</sup>	4.8	1.1 <sup>*♦</sup>	5.4
Hispanic	3.0 <sup>*♦</sup>	...	...	...	...	...	...	...	2.8 <sup>*♦</sup>	21.4	...	...
Asian	8.1 <sup>*♦</sup>	18.0	3.8 <sup>*♦</sup>	18.8	3.6 <sup>*♦</sup>	16.7	...	...	...	...	3.2 <sup>*♦</sup>	0.0
Other	...	...	6.3 <sup>*♦</sup>	31.6	6.0 <sup>*♦</sup>	17.0	...	...	5.6 <sup>*♦</sup>	...	2.7 <sup>*♦</sup>	...
Unknown	...	...	28.7 <sup>*♦</sup>	...	54.3 <sup>*♦</sup>	...	...	...	...	...	...	...
Region												
▶ Northeast	3.4 <sup>*♦</sup>	4.0	2.8 <sup>♦</sup>	3.7	4.4 <sup>♦</sup>	5.5	3.6 <sup>♦</sup>	3.7	4.3 <sup>♦</sup>	5.3	4.6 <sup>♦</sup>	4.8
South	3.1 <sup>*♦</sup>	3.2	4.0	4.1	4.2 <sup>*</sup>	4.1	3.2 <sup>*♦</sup>	4.0	4.0 <sup>*♦</sup>	3.8	4.0 <sup>*♦</sup>	3.6
Midwest	5.3 <sup>*♦</sup>	6.0	4.8 <sup>*♦</sup>	5.6	6.0 <sup>*♦</sup>	7.6	4.1 <sup>*♦</sup>	5.1	5.5 <sup>*♦</sup>	6.9	4.5 <sup>*♦</sup>	5.5
West	2.1 <sup>*♦</sup>	2.5	3.3 <sup>*♦</sup>	4.9	3.2 <sup>*♦</sup>	4.8	2.2 <sup>*♦</sup>	4.0	2.6 <sup>*♦</sup>	5.5	2.5 <sup>*♦</sup>	3.2
Gender												
Female	2.9 <sup>*♦</sup>	3.4	3.3 <sup>*</sup>	3.7	4.7	5.1	3.0 <sup>*</sup>	3.3	4.0 <sup>*</sup>	4.2	4.4 <sup>*</sup>	4.3
▶ Male	4.4	4.8	4.5	5.6	4.4	5.0	3.8	5.1	4.4	5.4	3.4 <sup>♦</sup>	3.6

... 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 7-9. Ambulatory surgery center visits by privately insured individuals for ureterocele listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=41)		2003 (N=63)		2004 (N=61)		2005 (N=72)		2006 (N=75)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	0.3	...	0.5	...	0.4	...	0.5	...	0.5	...
Age										
▶ 0-2	0.9 <sup>♦</sup>	...	1.4 <sup>♦</sup>	...	1.5 <sup>♦</sup>	...	2.4 <sup>♦</sup>	...	2.3 <sup>♦</sup>	...
3-10	0.1 <sup>*♦</sup>	...	0.1 <sup>*♦</sup>	...	0.2 <sup>*♦</sup>	...	0.2 <sup>*♦</sup>	...	...	...
11-17	0.1 <sup>*♦</sup>	...	0.1 <sup>*♦</sup>	...	0.1 <sup>*♦</sup>	...	...	...	0.2 <sup>*♦</sup>	...
18-24	0.3 <sup>*♦</sup>	...	0.1 <sup>*♦</sup>	...	0.2 <sup>*♦</sup>	...	0.1 <sup>*♦</sup>	...	0.2 <sup>*♦</sup>	...
25-34	0.1 <sup>*♦</sup>	...	0.3 <sup>*♦</sup>	...	0.3 <sup>*♦</sup>	...	0.2 <sup>*♦</sup>	...	0.3 <sup>*♦</sup>	...
35-39	0.3 <sup>*♦</sup>	...	0.4 <sup>*♦</sup>	...	0.1 <sup>*♦</sup>	...	0.7 <sup>*♦</sup>	...	0.7 <sup>*♦</sup>	...
40-44	0.4 <sup>*♦</sup>	...	0.3 <sup>*♦</sup>	...	0.6 <sup>*♦</sup>	...	0.6 <sup>*♦</sup>	...	1.0 <sup>*♦</sup>	...
45-54	0.7 <sup>*♦</sup>	...	0.5 <sup>*♦</sup>	...	0.7 <sup>*♦</sup>	...	0.3 <sup>*♦</sup>	...	0.5 <sup>*♦</sup>	...
55-64	0.8 <sup>*♦</sup>	...	1.2 <sup>*♦</sup>	...	1.0 <sup>*♦</sup>	...	1.2 <sup>*♦</sup>	...	0.6 <sup>*♦</sup>	...
65-74	...	...	1.4 <sup>*♦</sup>	...	0.5 <sup>*♦</sup>	...	0.9 <sup>*♦</sup>	...	1.3 <sup>*♦</sup>	...
75-84	...	...	2.1 <sup>*♦</sup>	...	...	...	0.8 <sup>*♦</sup>	...	0.8 <sup>*♦</sup>	...
85+	...	...	1.6 <sup>*♦</sup>	...	...	...	1.2 <sup>*♦</sup>	...	...	...
Race/ethnicity										
▶ White	0.5 <sup>♦</sup>	...	0.7	...	0.4	...	0.5	...	0.6	...
Black	...	...	...	...	0.5 <sup>*♦</sup>	...	0.2 <sup>*♦</sup>	...	0.5 <sup>*♦</sup>	...
Hispanic	...	...	0.1 <sup>*♦</sup>	...	0.2 <sup>*♦</sup>	...	0.2 <sup>*♦</sup>	...	0.4 <sup>*♦</sup>	...
Asian	...	...	0.4 <sup>*</sup>	...	0.5 <sup>*♦</sup>	...	0.2 <sup>*♦</sup>	...	0.5 <sup>*♦</sup>	...
Other	...	...	...	...	0.8 <sup>*♦</sup>	...	0.8 <sup>*♦</sup>	...	...	...
Unknown	...	...	0.2 <sup>*♦</sup>	...	0.8 <sup>*♦</sup>	...	1.3 <sup>*♦</sup>	...	0.9 <sup>*♦</sup>	...
Missing	0.3 <sup>*♦</sup>	...	0.4 <sup>*♦</sup>	...	0.5 <sup>*♦</sup>	...	0.6 <sup>*♦</sup>	...	0.4 <sup>*♦</sup>	...
Region										
Northeast	0.4 <sup>♦</sup>	...	0.3 <sup>♦</sup>	...	0.3 <sup>♦</sup>	...	0.2 <sup>*♦</sup>	...	0.5 <sup>♦</sup>	...
South	0.4 <sup>♦</sup>	...	0.7 <sup>*</sup>	...	0.6	...	0.6	...	0.6	...
▶ Midwest	0.3 <sup>♦</sup>	...	0.3 <sup>♦</sup>	...	0.4 <sup>♦</sup>	...	0.6 <sup>♦</sup>	...	0.6 <sup>♦</sup>	...
West	0.3 <sup>*♦</sup>	...	0.1 <sup>*♦</sup>	...	0.2 <sup>*♦</sup>	...	0.2 <sup>*♦</sup>	...	0.1 <sup>*♦</sup>	...
Gender										
Female	0.2 <sup>*♦</sup>	...	0.4 <sup>♦</sup>	...	0.5	...	0.5	...	0.4 <sup>*♦</sup>	...
▶ Male	0.4 <sup>♦</sup>	...	0.5	...	0.4 <sup>♦</sup>	...	0.5	...	0.7	...

... 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 7-10. Physician office visits by Medicare beneficiaries for ureterocele listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=15,040)		2003 (N=16,880)		2004 (N=18,100)		2005 (N=19,800)		2006 (N=19,380)		2007 (N=18,500)	
	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	42.3	47.5	46.3	51.6	48.9	54.3	53.3	59.1	53.3	59.1	51.1	57.5
Under 65/65+												
< 65 Years	18.2*	18.2	24.9*	24.9	27.9*	27.9	32.6*	32.6	34.8*	34.8	31.9*	31.9
▶ 65+ Years	48.4	47.5	51.9	51.6	54.6	54.3	59.2	59.1	58.6	59.1	56.9	57.5
Age												
▶ 65-69	37.1		31.9		32.2		45.2		40.5		39.7	
70-74	40.3*		42.5*		49.8*		54.2*		56.6*		50.8*	
75-79	49.7*		59.3*		63.0*		67.5*		56.8*		54.8*	
80-84	69.7*		79.1*		82.4*		73.9*		82.8*		80.3*	
85-89	55.4*		69.4*		65.7*		69.1*		85.1*		92.0*	
90-94	78.1*		71.6*		74.0*		53.0*♦		71.2*		64.7*	
95-97	102.4*♦		90.2*♦		78.9*♦		184.9*♦		29.9*♦		69.6*♦	
98+	...		10.7*♦		10.6*♦		10.4*♦		20.5*♦		10.2*♦	
Race/ethnicity												
▶ White	41.8	47.0	46.9	52.2	50.5	55.2	52.8	58.2	52.5	57.1	50.7	56.3
Black	30.9*	34.0	31.1*	38.2	36.4*	46.9	51.5*	63.4	45.1*	55.0	42.5*	52.4
Hispanic	36.4*♦	66.9	40.8*♦	55.0	50.9*♦	67.7	63.1*♦	77.0	61.8*♦	110.8	85.2*	91.6
Asian	80.8*♦	90.6	64.3*♦	72.4	46.5*♦	58.6	40.3*♦	66.5	73.1*♦	78.9	95.0*	123.6
Other	100.3*♦	159.0	85.2*♦	76.8	48.4*♦	60.8	91.3*	124.8	95.3*♦	124.9	40.6*♦	73.0
Unknown	106.8*♦	...	143.4*♦	...	27.1*♦	...	...	...	156.4*♦	...	33.7*♦	...
Region												
▶ Northeast	40.7	43.2	55.8	59.7	49.7	53.7	56.6	63.2	58.6	67.5	58.7	65.4
South	38.7*	43.7	40.7*	44.1	45.5*	50.0	55.2*	60.8	53.2*	57.9	50.1*	59.1
Midwest	39.5*	43.4	34.4*	39.7	39.1*	43.6	42.5*	48.4	38.2*	42.0	47.9*	50.5
West	57.2*	69.7	66.4*	79.5	70.6*	81.8	61.3*	67.8	69.7*	77.3	49.6*	54.2
Gender												
Female	36.7*	41.2	42.4*	44.9	46.3*	50.2	45.9*	45.6	46.0*	48.2	46.8*	49.3
▶ Male	49.4	56.7	51.3	60.9	52.3	60.0	62.7	77.7	62.3	73.7	56.5	68.2

... 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 7-11. Physician office visits by privately insured individuals for ureterocele listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=2,005)		2003 (N=2,287)		2004 (N=2,254)		2005 (N=2,527)		2006 (N=2,488)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	16.4	...	16.9	...	16.4	...	17.6	...	17.7	...
Age										
▶ 0-2	25.8		23.4		25.6		27.9		35.5	
3-10	9.4*		8.4*		8.9*		7.7*		8.5*	
11-17	3.3*		4.0*		2.8*		3.8*		3.5*	
18-24	8.3*		11.8*		8.2*		8.8*		9.4*	
25-34	15.8*		18.6*		15.6*		15.5*		14.6*	
35-39	17.4*		19.0*		19.6*		17.9*		15.5*	
40-44	17.3*		15.7*		16.6*		18.2*		18.3*	
45-54	18.9*		16.4*		18.5*		18.6*		21.4*	
55-64	29.9*		30.1*		26.9*		30.6*		33.0*	
65-74	34.4*		39.8*		35.6*		45.5*		44.3*	
75-84	46.6*		56.9*		58.9*		60.9*		64.6*	
85+	...		24.1*♦		49.8*		49.0*		52.9*♦	
Race/ethnicity										
▶ White	18.1	...	19.1	...	17.1	...	17.6	...	18.1	...
Black	19.9*	...	15.6*	...	12.6*	...	17.6*	...	18.3*	...
Hispanic	14.5*	...	19.6*	...	18.6*	...	16.8*	...	16.9*	...
Asian	18.2*	...	13.0*	...	14.8*	...	15.4*	...	13.8*	...
Other	14.8*♦	...	25.6*♦	...	18.3*♦	...	22.5*♦	...	13.8*♦	...
Unknown	12.8*	...	15.9*	...	19.0*	...	14.4*	...	22.3*	...
Missing	15.4	...	14.1*	...	13.2*	...	20.2*	...	15.2*	...
Region										
Northeast	20.7*	...	20.1*	...	20.5*	...	20.7*	...	25.7*	...
South	17.1*	...	18.7*	...	16.8*	...	18.9*	...	18.7*	...
▶ Midwest	15.4	...	14.8	...	15.5	...	16.1	...	14.6	...
West	13.4*	...	13.6*	...	14.0*	...	14.9*	...	15.2*	...
Gender										
Female	16.3*	...	17.1	...	17.4*	...	17.0*	...	18.0	...
▶ Male	16.5	...	16.7	...	15.5	...	18.3	...	17.5	...

... 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 7-12. Nationally representative physician office visits for ureterocele listed as any diagnosis, 2002-2007 (merged), 6-year count**

6-Year Count	
Total	5,359

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

**Table 7-13. Emergency room visits by privately insured individuals for ureterocele listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=360)		2003 (N=414)		2004 (N=227)		2005 (N=108)		2006 (N=67)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	2.9	...	3.1	...	1.7	...	0.8	...	0.5	...
Age										
▶ 0-2	0.2*		0.3*		0.5*		0.2*		0.3*	
3-10	0.3**		0.3**		0.3**		0.1**		0.1**	
11-17	0.5**		0.4**		0.6**		0.3**		0.3**	
18-24	2.4**		2.0**		0.9**		0.4**		0.4**	
25-34	3.8*		2.7*		1.3**		0.6**		0.7**	
35-39	3.9*		2.9*		1.7**		0.7**		0.6**	
40-44	4.1*		2.3**		1.1**		0.7**		0.6**	
45-54	3.6*		3.5*		2.4*		0.9**		0.5**	
55-64	3.2*		4.2*		3.1*		0.8**		0.5**	
65-74	7.4**		30.3*		3.6**		2.4**		0.6**	
75-84	13.3*		7.4**		8.2**		7.0**		1.7**	
85+	...		6.4**		24.1**		3.6**		...	
Race/ethnicity										
▶ White	2.8	...	4.4	...	1.4	...	0.6	...	0.4	...
Black	2.5**	...	3.3**	...	1.7**	...	1.5**	...	0.5**	...
Hispanic	2.2**	...	1.9**	...	1.8**	...	0.8**	...	0.2**	...
Asian	0.5**	...	2.2**	...	0.3**	...	...	...	...	...
Other	4.9**	...	1.2**	...	0.8**	...	...	...	...	...
Unknown	1.9**	...	3.0**	...	2.4**	...	0.9**	...	0.5**	...
Missing	3.2*	...	1.7*	...	2.4*	...	1.4**	...	0.9**	...
Region										
Northeast	1.3**	...	0.7**	...	1.7**	...	1.1*	...	0.3**	...
South	2.5*	...	2.2*	...	1.6*	...	0.6*	...	0.4**	...
▶ Midwest	4.7	...	5.8	...	2.4	...	1.1*	...	0.9	...
West	1.0**	...	0.8**	...	...	...	...	...	0.0**	...
Gender										
Female	2.7	...	3.5*	...	1.8	...	0.8	...	0.7*	...
▶ Male	3.2	...	2.6	...	1.5	...	0.7	...	0.3*	...

... 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 7-14. Nationally representative emergency room visits for ureterocele listed as primary diagnosis, 2002-2007 (merged), 6-year count**

	6-Year Count
Total	926

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

**Table 7-15. Nationally representative inpatient stays for ureteropelvic junction obstruction listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=859)		2003 (N=809)		2004 (N=907)		2005 (N=719)		2006 (N=853)		2007 (N=629)	
	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	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.3
Age												
18-24	0.6		0.6		0.6		0.6		0.7		0.4	
25-34	0.5		0.5		0.5		0.4		0.4		0.4	
35-39	0.4		0.2		0.5		0.2		0.3		0.3	
40-44	0.4		0.3		0.3		0.3		0.3		0.1	
45-54	0.2		0.2		0.3		0.3		0.2		0.2	
55-64	0.3		0.3		0.4		0.2		0.3		0.1	
▶ 65-74	0.5		0.4		0.4		0.2		0.5		0.4	
75-84	0.3*		0.3*		0.4*		0.3*		0.3*		0.4*	
85+	1.4*		†		†		†		†		†	
Race/ethnicity												
▶ White	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2
Black	0.1*	0.4	0.3*	0.3	0.1*	0.2	0.1*	0.3	0.2*	0.3	†	0.2
Hispanic	†	†	0.2*	0.2	0.3*	0.4	0.1*	0.3	0.1*	0.2	0.2*	0.3
Asian	...	...	†	0.4	†	1.0	†	0.5	†	0.7	...	...
Other	†	3.1	...	...	†	1.2	†	1.3	0.8*	1.3	†	1.3
Missing	...	...	...	...	...	...	...	...	...	...	...	...
Region												
Northeast	0.5	0.5	0.4	0.4	0.7	0.7	0.5	0.5	0.5	0.6	0.4	0.4
South	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
▶ Midwest	0.5	0.5	0.3	0.3	0.5	0.5	0.3	0.3	0.4	0.4	0.2	0.3
West	0.4*	0.4	0.4*	0.4	0.3*	0.3	0.3*	0.4	0.4*	0.4	0.3*	0.3
Gender												
Female	0.5	0.5	0.4	0.4	0.5	0.5	0.3	0.3	0.5	0.5	0.3	0.3
▶ Male	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3

... Data unavailable.

▶ 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 7-16. Inpatient stays by privately insured individuals for ureteropelvic junction obstruction listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=351)		2003 (N=384)		2004 (N=360)		2005 (N=384)		2006 (N=377)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	2.9	...	2.8	...	2.6	...	2.7	...	2.7	...
Age										
▶ 0-2	10.9		13.5		13.8		10.8		11.7	
3-10	3.3*		2.2*		2.5*		2.5*		2.9*	
11-17	2.2*♦		1.9*♦		1.3*♦		1.5*♦		2.0*♦	
18-24	2.8*		3.8*		2.6*		2.7*		2.2*	
25-34	2.6*		2.7*		1.3*		2.0*		2.1*	
35-39	1.9*♦		1.7*♦		2.8*		2.0*♦		1.7*♦	
40-44	2.9*		1.3*♦		1.9*♦		2.2*♦		1.9*♦	
45-54	2.0*		1.8*		1.7*		2.3*		2.0*	
55-64	2.3*♦		2.7*		2.4*		2.3*		3.4*	
65-74	2.4*♦		4.9*♦		3.8*♦		3.6*♦		2.6*♦	
75-84	1.3*♦		2.1*♦		6.1*♦		7.0*♦		2.5*♦	
85+	...		3.2*♦		4.5*♦		6.0*♦		4.4*♦	
Race/ethnicity										
▶ White	2.9	...	3.1	...	2.9	...	2.9	...	2.9	...
Black	2.2*♦	...	1.1*♦	...	1.4*♦	...	2.1*♦	...	1.5*♦	...
Hispanic	1.0*♦	...	2.3*♦	...	2.0*♦	...	1.5*♦	...	2.1*♦	...
Asian	2.6*♦	...	2.2*♦	...	1.8*♦	...	2.6*♦	...	1.6*♦	...
Other	...	...	7.0*♦	...	3.3*♦	...	0.8*♦	...	1.5*♦	...
Unknown	3.6*♦	...	3.7*♦	...	2.3*♦	...	2.8*♦	...	2.4*♦	...
Missing	3.0*	...	2.6*	...	2.3*	...	2.8*	...	3.0*	...
Region										
Northeast	2.8	...	2.4	...	3.4*	...	2.8	...	3.9*	...
South	2.4*	...	2.8	...	2.4	...	2.6	...	2.3	...
▶ Midwest	3.5	...	2.9	...	2.6	...	2.8	...	2.8	...
West	2.8*	...	3.1*	...	2.7*	...	2.6*	...	2.9*	...
Gender										
Female	2.8*	...	2.6*	...	2.2*	...	2.6*	...	2.4*	...
▶ Male	3.0	...	3.1	...	3.0	...	2.8	...	3.0	...

... 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 7-17. Hospital outpatient visits by privately insured individuals for ureteropelvic junction obstruction listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=613)		2003 (N=582)		2004 (N=580)		2005 (N=568)		2006 (N=554)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	5.0		4.3		4.2		4.0		3.9	
Age										
▶ 0-2	21.7		20.3		19.5		18.9		16.7	
3-10	4.7*		4.5*		3.4*		3.6*		4.1*	
11-17	2.4*		2.2*		2.2*		2.0*♦		2.0*♦	
18-24	2.5*♦		3.9*		2.7*		3.7*		3.4*	
25-34	4.9*		3.9*		2.9*		2.4*		2.6*	
35-39	4.2*		2.9*		3.4*		3.4*		3.4*	
40-44	3.6*		2.7*		3.5*		2.7*		2.9*	
45-54	4.3*		3.1*		4.1*		3.8*		3.6*	
55-64	6.5*		4.8*		4.0*		3.3*		4.4*	
65-74	3.9*♦		4.9*♦		9.5*		5.4*♦		6.8*♦	
75-84	6.4*♦		6.4*♦		8.2*♦		7.4*♦		4.2*♦	
85+	...		...		3.0*♦		10.8*♦		2.2*♦	
Race/ethnicity										
▶ White	5.3	...	4.4	...	4.5	...	4.2	...	4.2	...
Black	5.1*♦	...	2.4*♦	...	2.6*♦	...	2.0*♦	...	3.4*♦	...
Hispanic	3.5*♦	...	3.6*♦	...	3.5*	...	2.9*	...	2.5*	...
Asian	10.4*♦	...	6.1*♦	...	4.7*♦	...	5.3*♦	...	3.5*♦	...
Other	4.9*♦	...	4.6*♦	...	2.5*♦	...	0.8*♦	...	5.3*♦	...
Unknown	5.4*♦	...	5.1*	...	3.9*	...	4.1*	...	3.9*	...
Missing	4.8*	...	4.3*	...	4.1*	...	4.2*	...	3.6*	...
Region										
Northeast	4.2	...	4.3	...	4.0	...	4.3	...	5.5*	...
South	5.3	...	4.0*	...	3.8*	...	4.0	...	3.5*	...
▶ Midwest	5.0	...	4.7	...	4.5	...	3.8	...	4.4	...
West	4.9*	...	4.4*	...	5.2*	...	4.0*	...	3.5*	...
Gender										
Female	4.7	...	3.6*	...	3.9*	...	3.7	...	3.7*	...
▶ Male	5.3	...	5.1	...	4.6	...	4.2	...	4.2	...

... 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 7-18. Nationally representative hospital outpatient visits for ureteropelvic junction obstruction listed as primary diagnosis, 2002-2007 (merged), 6-year count**

6-Year Count	
Total	10,900

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



**Table 7-19. Ambulatory surgery center visits by Medicare beneficiaries for ureteropelvic junction obstruction listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=640)		2003 (N=660)		2004 (N=760)		2005 (N=660)		2006 (N=620)		2007 (N=520)	
	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	2.4	2.7	2.6	2.8	2.4	2.6	2.5	2.9	2.2	2.6	1.8	2.1
Age												
▶ 65-69	2.4 <sup>♦</sup>		1.3 <sup>♦</sup>		2.2 <sup>♦</sup>		2.0 <sup>♦</sup>		1.7 <sup>♦</sup>		1.0 <sup>♦</sup>	
70-74	2.3 <sup>*♦</sup>		3.2 <sup>*♦</sup>		2.1 <sup>*♦</sup>		3.6 <sup>*♦</sup>		2.5 <sup>*♦</sup>		1.9 <sup>*♦</sup>	
75-79	3.4 <sup>*♦</sup>		3.3 <sup>*♦</sup>		3.7 <sup>*♦</sup>		2.8 <sup>*♦</sup>		3.6 <sup>*♦</sup>		2.2 <sup>*♦</sup>	
80-84	2.9 <sup>*♦</sup>		2.3 <sup>*♦</sup>		2.7 <sup>*♦</sup>		3.2 <sup>*♦</sup>		3.7 <sup>*♦</sup>		2.9 <sup>*♦</sup>	
85-89	2.6 <sup>*♦</sup>		5.9 <sup>*♦</sup>		2.5 <sup>*♦</sup>		4.1 <sup>*♦</sup>		1.6 <sup>*♦</sup>		4.0 <sup>*♦</sup>	
90-94	6.3 <sup>*♦</sup>		6.1 <sup>*♦</sup>		2.0 <sup>*♦</sup>		2.0 <sup>*♦</sup>		...		3.9 <sup>*♦</sup>	
Race/ethnicity												
▶ White	2.7	3.1	2.8	3.1	2.6	2.8	2.7	3.3	2.4	2.8	2.0	2.2
Black	0.6 <sup>*♦</sup>	0.0	1.1 <sup>*♦</sup>	12.5	0.5 <sup>*♦</sup>	...	1.6 <sup>*♦</sup>	3.6	1.1 <sup>*♦</sup>	1.8	1.1 <sup>*♦</sup>	3.3
Hispanic	...	...	2.9 <sup>*♦</sup>	14.7	...	...	...	...	...	...	2.7 <sup>*♦</sup>	16.4
Asian	...	...	...	...	0.0 <sup>*♦</sup>	0.0	...	...	3.3 <sup>*♦</sup>	25.7	...	...
Other	...	...	3.2 <sup>*♦</sup>	...	6.0 <sup>*♦</sup>	30.4	...	...	...	...	...	...
Unknown	...	...	...	...	27.1 <sup>*♦</sup>	...	...	...	...	...	...	...
Region												
▶ Northeast	2.0 <sup>♦</sup>	2.9	1.4 <sup>♦</sup>	1.6	0.6 <sup>♦</sup>	1.6	1.7 <sup>♦</sup>	2.1	2.0 <sup>♦</sup>	2.4	0.9 <sup>♦</sup>	2.0
South	1.6 <sup>*♦</sup>	1.9	2.7 <sup>*♦</sup>	3.5	2.9 <sup>*♦</sup>	3.2	3.3 <sup>*♦</sup>	3.9	2.4 <sup>*♦</sup>	3.0	1.4 <sup>*♦</sup>	1.8
Midwest	4.2 <sup>*♦</sup>	5.1	2.6 <sup>*♦</sup>	3.1	3.5 <sup>*♦</sup>	3.9	2.2 <sup>*♦</sup>	2.6	2.6 <sup>*♦</sup>	3.6	1.8 <sup>*♦</sup>	2.2
West	1.7 <sup>*♦</sup>	6.4	3.7 <sup>*♦</sup>	5.7	1.6 <sup>*♦</sup>	2.8	1.9 <sup>*♦</sup>	4.3	1.3 <sup>*♦</sup>	2.7	3.8 <sup>*♦</sup>	4.8
Gender												
Female	3.3 <sup>*</sup>	3.7	2.8 <sup>*♦</sup>	2.8	2.7 <sup>*♦</sup>	2.8	2.7 <sup>*♦</sup>	3.4	2.4 <sup>*♦</sup>	2.9	2.3 <sup>*♦</sup>	2.7
▶ Male	1.2 <sup>♦</sup>	1.3	2.2 <sup>♦</sup>	3.1	2.0 <sup>♦</sup>	2.3	2.2 <sup>♦</sup>	2.3	2.0 <sup>♦</sup>	3.1	1.2 <sup>♦</sup>	1.5

... 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 7-20. Ambulatory surgery center visits by privately insured individuals for ureteropelvic junction obstruction listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=29)		2003 (N=26)		2004 (N=33)		2005 (N=31)		2006 (N=47)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	0.2*	...	0.2*	...	0.2	...	0.2	...	0.3	...
Age										
▶ 0-2	0.5*	...	...	...	0.9*	...	1.0*	...	1.2*	...
3-10	...	...	...	...	...	...	0.2**	...	0.2**	...
11-17	0.1**	...	0.1**	...	0.2**	...	0.1**	...	0.3**	...
18-24	0.3**	...	0.3**	...	0.1**	...	0.2**	...	0.1**	...
25-34	0.2**	...	0.2**	...	0.2**	...	0.1**	...	0.0**	...
35-39	0.3**	...	0.3**	...	0.4**	...	0.2**	...	0.1**	...
40-44	0.3**	...	0.2**	...	0.3**	...	0.5**	...	0.5**	...
45-54	0.3**	...	0.1*	...	0.2**	...	0.2**	...	0.4**	...
55-64	0.5**	...	0.3**	...	0.2**	...	0.1**	...	0.5**	...
65-74	...	...	0.3**	...	0.5**	...	0.2**	...	0.6**	...
75-84	1.3**	...	...	...	...	...	...	...	0.8**	...
85+	...	...	...	...	...	...	...	...	2.2**	...
Race/ethnicity										
▶ White	0.4*	...	0.2*	...	0.3*	...	0.2*	...	0.4	...
Black	...	...	...	...	0.3**	...	...	...	0.2**	...
Hispanic	...	...	0.7**	...	0.1**	...	0.2**	...	...	...
Unknown	0.2**	...	0.2**	...	0.1**	...	0.4**	...	0.6**	...
Missing	0.1**	...	0.1**	...	0.2**	...	0.3**	...	0.3**	...
Region										
Northeast	0.1*	...	...	...	0.4*	...	...	...	0.2**	...
South	0.3*	...	0.2*	...	0.2*	...	0.3*	...	0.2**	...
▶ Midwest	0.3*	...	0.2*	...	0.3*	...	0.3*	...	0.6*	...
West	0.2**	...	0.2**	...	0.2**	...	...	...	0.2**	...
Gender										
Female	0.3*	...	0.2*	...	0.2*	...	0.2*	...	0.3*	...
▶ Male	0.2*	...	0.2*	...	0.2*	...	0.2*	...	0.4*	...

... 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 7-21. Nationally representative ambulatory surgery center visits for ureteropelvic junction listed as primary diagnosis, count, rate<sup>a</sup>**

	Count	Rate
Total	138	0.1

<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 7-22. Physician office visits by Medicare beneficiaries for ureteropelvic junction obstruction listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=4,600)		2003 (N=5,200)		2004 (N=5,280)		2005 (N=5,240)		2006 (N=6,680)		2007 (N=6,620)	
	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	12.9	13.3	14.3	16.6	14.3	16.1	14.1	15.8	18.4	20.7	18.3	21.5
Under 65/65+												
< 65 Years	11.6*	11.6	5.8* <sup>†</sup>	5.8	9.1*	9.1	9.1*	9.1	11.6*	11.6	9.6*	9.6
▶ 65+ Years	13.3	13.3	16.5	16.6	15.7	16.1	15.5	15.8	20.3	20.7	20.9	21.5
Age												
▶ 65-69	9.7		11.4		14.2		12.5		17.6		20.7	
70-74	12.5*		16.9*		13.9*		15.9*		16.8*		15.2*	
75-79	15.2*		21.0*		20.1*		17.6*		24.6*		25.2*	
80-84	19.6*		16.7*		19.6*		16.7*		30.5*		21.9*	
85-89	11.9* <sup>†</sup>		20.9* <sup>†</sup>		13.1* <sup>†</sup>		19.7* <sup>†</sup>		15.6* <sup>†</sup>		28.8*	
90-94	14.8* <sup>†</sup>		8.2* <sup>†</sup>		2.0* <sup>†</sup>		5.9* <sup>†</sup>		7.9* <sup>†</sup>		13.7* <sup>†</sup>	
95-97	...		...		...		9.7* <sup>†</sup>		19.9* <sup>†</sup>		29.8* <sup>†</sup>	
98+	10.8* <sup>†</sup>		74.8* <sup>†</sup>		31.8* <sup>†</sup>		51.8* <sup>†</sup>		20.5* <sup>†</sup>		...	
Race/ethnicity												
▶ White	13.4	13.6	15.0	17.2	14.8	16.4	15.4	16.7	19.2	21.7	20.3	23.8
Black	8.0* <sup>†</sup>	9.1	10.0* <sup>†</sup>	13.6	8.1* <sup>†</sup>	17.5	3.3* <sup>†</sup>	4.6	12.3* <sup>†</sup>	15.5	4.5* <sup>†</sup>	8.3
Hispanic	9.1* <sup>†</sup>	47.4	5.8* <sup>†</sup>	26.5	2.8* <sup>†</sup>	...	27.5* <sup>†</sup>	63.8	30.9* <sup>†</sup>	48.4	5.5* <sup>†</sup>	...
Asian	40.4* <sup>†</sup>	76.5	15.1* <sup>†</sup>	75.1	14.3* <sup>†</sup>	71.7	10.1* <sup>†</sup>	15.5	6.6* <sup>†</sup>	14.0	3.2* <sup>†</sup>	13.2
Other	...	...	12.6* <sup>†</sup>	44.8	39.3* <sup>†</sup>	68.5	5.7* <sup>†</sup>	46.0	11.2* <sup>†</sup>	21.6	27.1* <sup>†</sup>	23.9
Unknown	...	...	...	...	...	...	...	...	31.3* <sup>†</sup>	...	...	...
Region												
▶ Northeast	13.3	14.6	13.1	15.6	15.0	18.2	17.6	20.4	19.4	21.9	17.2	21.7
South	14.7*	12.5	17.4*	19.5	17.5*	18.4	15.2*	15.6	24.2*	27.6	21.7*	24.9
Midwest	10.9*	12.9	13.3*	16.2	11.5*	13.9	11.9*	15.1	12.6*	14.3	16.7*	19.1
West	11.5*	14.2	9.7* <sup>†</sup>	12.1	10.0*	12.0	11.1*	12.1	12.5*	13.9	14.2*	17.0
Gender												
Female	12.7*	14.2	17.6*	20.2	17.7*	20.0	17.6*	20.5	22.3*	26.1	23.3*	27.6
▶ Male	13.2	11.9	10.1	11.7	10.0	10.7	9.8	9.4	13.5	13.5	12.2	13.5

... 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 7-23. Physician office visits by privately insured individuals for ureteropelvic junction obstruction listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=1,391)		2003 (N=1,517)		2004 (N=1,586)		2005 (N=1,768)		2006 (N=1,623)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	11.4	...	11.2	...	11.6	...	12.3	...	11.6	...
Age										
0-2	66.5		73.5		74.1		68.0		68.8	
3-10	12.6*		11.8*		12.2*		13.0*		14.3*	
11-17	5.9*		5.4*		6.0*		6.6*		8.4*	
18-24	5.8*		7.7*		6.6*		9.6*		8.2*	
25-34	9.0*		9.1*		7.8*		10.4*		7.4*	
35-39	9.6*		7.0*		8.7*		10.5*		7.4*	
40-44	6.3*		6.4*		8.1*		6.4*		5.3*	
45-54	7.9*		8.4*		8.5*		9.2*		9.2*	
55-64	11.9*		8.2*		10.7*		10.6*		10.2*	
▶ 65-74	11.6*		14.3*		11.8*		13.1*		12.0*	
75-84	9.8*♦		9.0*♦		16.9*		19.4*		10.2*♦	
85+	...		3.2*♦		6.0*♦		16.7*♦		26.4*♦	
Race/ethnicity										
▶ White	12.4	...	12.2	...	11.6	...	13.0	...	12.0	...
Black	7.6*♦	...	5.7*♦	...	5.4*	...	6.9*	...	5.9*	...
Hispanic	10.8*	...	12.1*	...	11.9*	...	9.8*	...	9.5*	...
Asian	17.1*	...	17.3*	...	23.1*	...	18.5*	...	18.2*	...
Other	6.6*♦	...	15.1*♦	...	10.8*♦	...	16.3*♦	...	13.0*♦	...
Unknown	14.3*	...	14.3*	...	11.9*	...	10.2*	...	11.8*	...
Region	10.5*	...	9.6*	...	11.0*	...	11.9*	...	11.1*	...
Northeast										
South	16.2*	...	15.9*	...	18.9*	...	16.7*	...	18.5*	...
▶ Midwest	11.1*	...	9.6	...	9.9	...	12.3*	...	10.4*	...
West	9.4	...	10.2	...	9.2	...	9.3	...	9.1	...
Missing	13.8*	...	15.0*	...	17.0*	...	15.9*	...	15.0*	...
Gender										
Female	10.7*	...	10.3*	...	10.6*	...	11.6*	...	10.2*	...
▶ Male	12.0	...	12.1	...	12.5	...	13.0	...	12.9	...
Unknown	93.7*♦	...	40.5*♦	...	21.4*♦	...	59.7*♦	...	46.8*♦	...

... 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 7-24. Nationally representative physician office visits for ureteropelvic junction obstruction listed as any diagnosis, 2002-2007 (merged), 6-year count**

	6-Year Count
Total	72,524
Age	
40-44	12,682
45-54	14,917
55-64	8,433
65-74	36,492
Race/ethnicity	
White	72,524
Black	...
Hispanic	...
Region	
Northeast	9,878
South	...
Midwest	23,350
West	39,296
Gender	
Female	25,070
Male	47,454

... Data unavailable.

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

**Table 7-25. Nationally representative inpatient stays for posterior urethral valves listed as primary diagnosis, count,<sup>a</sup> rate,<sup>b</sup> percentage of all hospitalizations<sup>c</sup>**

	2003			2006		
	Count	Rate	Percent	Count	Rate	Percent
Total	248	0.34	0.004%	254	0.34	0.004%
Age						
0-2	192	1.66	0.003%	187	1.52	0.003%
3-10	† †		†	† †		†
11-17	† †		†	† †		†
Race/ethnicity						
White	83	0.19	0.001%	90	0.21	0.001%
Black	† †		†	† †		†
Hispanic	† †		†	† †		†
Region						
Northeast	† †		†	† †		†
South	103	0.39	0.002%	88	0.33	0.001%
Midwest	53	0.32	0.001%	54	0.33	0.001%
West	† †		†	64	0.35	0.001%

† 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 civilian non-institutionalized population under age 18.

<sup>c</sup>Percent of all hospitalizations in each year within each demographic group.  
SOURCE: Healthcare Cost and Utilization Project Kids' Inpatient Database, 2003 and 2006.

**Table 7-26. Hospital outpatient visits by privately insured individuals for posterior urethral valves listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=179)		2003 (N=197)		2004 (N=180)		2005 (N=191)		2006 (N=206)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	5.3	5.2	5.4	5.3	4.9	4.9	5.2	5.2	5.7	5.6
Age										
▶ 0-2	7.0		6.3		6.1		6.1		5.2	
3-10	7.1*		8.0*		7.0*		7.5*		8.6*	
11-17	2.4*		1.9*♦		2.2*		2.4*		2.6*	
Race/ethnicity										
▶ White	5.3	5.1	6.3	6.2	5.2	5.1	5.9	5.8	6.3	6.2
Black	3.7*♦	8.4	5.4*♦	5.7	2.5*♦	5.8	1.7*♦	3.9	3.6*♦	3.6
Hispanic	2.6*♦	5.5	1.7*♦	1.8	4.3*♦	7.2	2.7*♦	2.8	3.7*♦	3.8
Asian	1.8*♦	3.9	3.9*♦	5.8	1.9*♦	2.0	3.7*♦	3.9	2.7*♦	5.7
Other	4.9*♦	26.1	35.5*♦	52.0	7.8*♦	7.8	12.7*♦	15.3	12.4*♦	19.1
Unknown	7.1*♦	...	5.8*♦	...	5.7*♦	...	6.8*♦	...	5.1*♦	...
Missing	5.5*	...	4.2*	...	5.1*	...	4.2*♦	...	5.5*	...
Region										
Northeast	5.9*♦	5.9	5.0*♦	4.7	8.3*	8.0	6.6*♦	6.4	5.5*♦	5.3
South	6.1	6.1	6.0	6.0	4.2	4.2	4.7	4.7	5.3	5.3
▶ Midwest	5.1	4.9	5.0	5.0	5.1	5.1	5.4	5.3	5.3	5.3
West	2.6*♦	2.5	4.6*♦	4.4	4.1*♦	3.9	5.6*♦	5.4	7.5*	7.3

... 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 7-27. Nationally representative hospital outpatient visits for posterior urethral valves listed as primary diagnosis, 2002-2007 (merged), 6-year count**

6-Year Count	
Total	59

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

**Table 7-28. Ambulatory surgery center visits by privately insured individuals for posterior urethral valves listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=39)		2003 (N=28)		2004 (N=30)		2005 (N=39)		2006 (N=35)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	1.1	1.1	0.8*	0.7	0.8	0.8	1.1	1.0	1.0	0.9
Age										
▶ 0-2	0.7*		0.3*		0.2*		0.7*		0.3*	
3-10	1.9**		1.3**		1.4**		1.9*		1.9*	
11-17	0.4**		0.3**		0.4**		0.3**		0.2**	
Race/ethnicity										
▶ White	1.4*	1.4	1.1*	1.1	0.9*	1.0	1.2*	1.2	0.8*	0.8
Black	...	...	1.4**	3.1	...	...	0.6**	1.3	2.4**	5.6
Hispanic	...	...	0.4**	0.9	0.6**	1.0	0.3**	0.7	0.6**	0.9
Asian	...	...	1.3**	2.8	...	...	1.9**	4.0	...	...
Unknown	0.8**	...	...	...	1.3**	...	0.4**	...	1.3**	...
Missing	1.2**	...	0.4**	...	1.0**	...	1.5**	...	1.5**	...
Region										
Northeast	1.1*	1.9	0.5*	1.1	1.8*	2.0	2.5*	2.9	1.8*	3.0
South	1.1*	1.2	0.7*	0.9	0.4**	0.9	0.3**	0.5	0.3**	0.4
▶ Midwest	1.4*	1.3	0.9*	0.9	1.1*	1.3	1.5*	1.4	1.6*	1.6
West	0.7**	1.6	0.7**	1.5	0.6**	0.6	1.2**	1.4	0.8**	1.7

... 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 7-29. Physician office visits by privately insured individuals for posterior urethral valves listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=408)		2003 (N=425)		2004 (N=444)		2005 (N=466)		2006 (N=484)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	12.0	11.8	11.6	11.4	12.2	12.0	12.8	12.6	13.3	13.1
Age										
▶ 0-2	14.2		16.6		17.7		18.6		18.2	
3-10	16.8*		16.1*		17.1*		17.8*		19.0*	
11-17	5.5*		4.3*		4.4*		4.8*		4.9*	
Race/ethnicity										
▶ White	12.6	12.3	13.2	12.9	13.4	13.2	13.1	12.8	13.9	13.6
Black	7.5**	6.5	11.5**	11.5	3.0**	3.5	7.8**	8.1	8.4**	8.5
Hispanic	12.2**	11.7	9.2**	9.2	10.4*	10.8	6.3**	6.5	9.8*	10.2
Asian	12.8**	16.4	2.6**	3.8	2.9**	5.6	9.3**	9.0	9.0**	18.8
Other	24.6**	43.5	28.4**	27.1	18.2**	26.7	27.9**	27.3	19.9**	19.7
Unknown	13.4**	...	13.9**	...	14.9*	...	18.3*	...	13.2*	...
Missing	11.6*	...	9.9*	...	11.8*	...	14.4*	...	15.3*	...
Region										
Northeast	13.6*	12.4	19.1*	18.2	17.9*	17.1	14.2	13.8	16.0	15.4
South	12.6*	12.6	11.1	11.1	10.1*	10.3	11.1*	11.2	12.5*	12.5
▶ Midwest	10.0	9.9	10.2	10.1	13.1	12.9	15.1	14.9	13.3*	13.2
West	14.4*	14.2	10.1*	9.8	11.5*	11.2	11.1*	10.9	13.7*	13.3

... 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 7-30. Nationally representative physician office visits for posterior urethral valves listed as any diagnosis, 2002-2007 (merged), 6-year count**

	6-Year Count
Total	41,138
Age	
0-2	34,915
3-10	...
11-17	6,223
Race/ethnicity	
White	41,138
Black	...
Hispanic	...
Region	
Northeast	6,223
South	34,915
Midwest	...
West	...

... Data unavailable.

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



**Table 7-31. Nationally representative inpatient stays for vesicoureteral reflux listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=520)		2003 (N=448)		2004 (N=375)		2005 (N=485)		2006 (N=347)		2007 (N=263)	
	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	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.3
Age												
18-24	0.6		0.6		0.6		0.6		0.7		0.4	
25-34	0.5		0.5		0.5		0.4		0.4		0.4	
35-39	0.4		0.2		0.5		0.2		0.3		0.3	
40-44	0.4		0.3		0.3		0.3		0.3		0.1	
45-54	0.2		0.2		0.3		0.3		0.2		0.2	
55-64	0.3		0.3		0.4		0.2		0.3		0.1	
▶ 65-74	0.5		0.4		0.4		0.2		0.5		0.4	
75-84	0.3*		0.3*		0.4*		0.3*		0.3*		0.4*	
85+	1.4*		†		†		†		†		†	
Race/ethnicity												
▶ White	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2
Black	0.1*	0.4	0.3*	0.3	0.1*	0.2	0.1*	0.3	0.2*	0.3	†	0.2
Hispanic	†	†	0.2*	0.2	0.3*	0.4	0.1*	0.3	0.1*	0.2	0.2*	0.3
Asian	...	...	†	0.4	†	1.0	†	0.5	†	0.7	...	...
Other	†	3.1	...	...	†	1.2	†	1.3	0.8*	1.3	†	1.3
Missing	...	...	...	...	...	...	...	...	...	...	...	...
Region												
Northeast	0.5	0.5	0.4	0.4	0.7	0.7	0.5	0.5	0.5	0.6	0.4	0.4
South	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
▶ Midwest	0.5	0.5	0.3	0.3	0.5	0.5	0.3	0.3	0.4	0.4	0.2	0.3
West	0.4*	0.4	0.4*	0.4	0.3*	0.3	0.3*	0.4	0.4*	0.4	0.3*	0.3
Gender												
Female	0.5	0.5	0.4	0.4	0.5	0.5	0.3	0.3	0.5	0.5	0.3	0.3
▶ Male	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3

... Data unavailable.

▶ 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 7-32. Nationally representative inpatient stays for vesicoureteral reflux listed as primary diagnosis, count,<sup>a</sup> rate,<sup>b</sup> percentage of all hospitalizations<sup>c</sup>**

	2003			2006		
	Count	Rate	Percent	Count	Rate	Percent
Total	7,458	10.2	0.11%	5,908	8.0	0.09%
Age						
0-2	2,543	22.0	0.04%	2,302	18.8	0.03%
3-10	4,332	13.5	0.07%	3,232	10.1	0.05%
11-17	583	2.0	0.01%	374	1.3	0.01%
Race/ethnicity						
White	3,757	8.6	0.06%	3,266	7.6	0.05%
Black	150	1.4	0.00%	122	1.1	0.00%
Hispanic	875	6.5	0.01%	657	4.4	0.01%
Other	372	15.2	0.01%	420	16.1	0.01%
Region						
Northeast	1,459	11.2	0.02%	1,210	9.4	0.02%
South	2,266	8.7	0.03%	1,870	7.0	0.03%
Midwest	1,886	11.4	0.03%	1,578	9.7	0.02%
West	1,847	10.5	0.03%	1,250	6.9	0.02%
Gender						
Male	2,022	5.4	0.03%	1,694	4.5	0.03%
Female	5,436	15.2	0.08%	4,214	11.7	0.06%

<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 civilian non-institutionalized population under age 18.

<sup>c</sup>Percent of all hospitalizations in each year within each demographic group.  
SOURCE: Healthcare Cost and Utilization Project Kids' Inpatient Database, 2003 and 2006.

**Table 7-33. Inpatient stays by privately insured individuals for vesicoureteral reflux listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=491)		2003 (N=489)		2004 (N=426)		2005 (N=419)		2006 (N=413)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	14.4	14.2	13.3	13.1	11.7	11.6	11.5	11.4	11.4	11.2
Age										
▶ 0-2	33.1		30.3		31.2		28.5		31.0	
3-10	17.8*		16.6*		13.2*		13.8*		12.3*	
11-17	2.7*		2.6*		2.0**		1.9**		2.2*	
Race/ethnicity										
▶ White	19.0	18.8	15.6	15.3	12.7	12.6	12.5	12.3	12.0	11.8
Black	2.8**	6.3	4.1**	7.2	4.5**	4.7	3.9**	4.0	4.2**	7.7
Hispanic	9.6**	15.8	13.1*	13.6	8.3**	13.4	10.7*	11.5	8.9*	9.3
Asian	9.1**	12.9	9.2**	13.3	15.5**	14.2	9.3**	13.5	6.3**	9.0
Other	...	...	3.5**	7.4	5.2**	7.7	5.1**	26.7	10.0**	14.9
Unknown	16.5**	...	22.0*	...	13.6*	...	11.1**	...	14.9*	...
Missing	12.5*	...	11.0*	...	11.1*	...	11.3*	...	12.0*	...
Region										
Northeast	15.8	15.0	11.2	10.5	12.1	11.3	17.0*	16.2	15.5*	14.9
South	14.0	14.1	12.5	12.8	10.8	11.2	10.6	10.9	10.9	11.0
▶ Midwest	14.1	13.9	13.4	13.1	11.9	11.8	9.9	9.8	11.9	11.8
West	15.8*	14.7	17.6*	17.0	13.4*	13.1	13.7*	13.2	8.8*	8.5
Gender										
Female	19.7*	19.3	18.8*	18.5	16.1*	16.0	15.6*	15.5	16.5*	16.3
▶ Male	9.4	9.3	8.0	8.0	7.4	7.4	7.5	7.4	6.5	6.4

... 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 7-34. Hospital outpatient visits by privately insured individuals for vesicoureteral reflux listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=4,157)		2003 (N=4,313)		2004 (N=4,421)		2005 (N=4,426)		2006 (N=4,202)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	122.3	119.8	117.3	115.8	121.1	120.1	121.2	120.3	115.6	114.1
Age										
▶ 0-2	288.1		263.1		284.9		278.3		268.1	
3-10	151.0*		151.5*		152.8*		155.6*		145.5*	
11-17	18.6*		18.2*		18.6*		18.8*		18.4*	
Race/ethnicity										
▶ White	152.3	150.1	147.8	145.6	136.8	134.4	135.6	133.3	126.2	123.6
Black	44.0*	45.9	36.7*	37.8	36.8*	38.7	43.7*	45.6	54.9*	56.3
Hispanic	116.4*	118.8	115.6*	119.5	98.2*	101.5	91.4*	95.4	86.0*	89.5
Asian	95.1*	84.9	102.4*	91.3	110.5*	99.0	101.4*	92.0	109.0*	98.6
Other	78.6*†	116.4	102.8*†	95.5	104.2*	155.0	101.3*	96.8	59.7*†	58.2
Unknown	126.7*	...	132.8*	...	131.2*	...	136.1*	...	138.3*	...
Missing	107.8*	...	89.9*	...	104.4*	...	105.5*	...	106.7*	...
Region										
Northeast	84.0*	77.8	80.4*	75.4	94.9*	89.6	96.5*	92.5	88.2*	84.6
South	125.3*	126.4	116.2*	118.5	119.8*	122.7	116.3*	118.5	108.0*	108.9
▶ Midwest	134.2	132.0	136.2	134.0	136.3	134.2	139.2	138.1	138.5	136.7
West	110.5*	105.2	99.7*	95.8	107.8*	104.6	112.0*	108.1	108.2*	104.2
Gender										
Female	195.5*	191.6	190.2*	187.5	197.8*	196.1	196.1*	194.8	187.2*	185.0
▶ Male	52.4	51.6	47.4	47.3	47.8	47.7	49.5	49.3	47.2	46.7

... 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 7-35. Nationally representative hospital outpatient visits for vesicoureteral reflux listed as primary diagnosis, 2002-2007 (merged), 6-year count**

	<b>6-Year Count</b>
Total	80,942
Age	
0-2	32,210
3-10	46,539
11-17	2,193
Race/ethnicity	
White	71,344
Black	9,007
Hispanic	...
Other	591
Region	
Northeast	4,957
South	64,438
Midwest	6,696
West	4,851
Gender	
Female	51,697
Male	29,245

... Data unavailable.

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

**Table 7-36. Ambulatory surgery center visits by privately insured individuals for vesicoureteral reflux listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=84)		2003 (N=129)		2004 (N=139)		2005 (N=162)		2006 (N=149)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	2.5	2.4	3.5	3.4	3.8	3.8	4.4	4.4	4.1	4.0
Age										
▶ 0-2	6.5		6.6		8.5		9.5		7.9	
3-10	2.6*		5.3*		5.0*		6.2*		5.4*	
11-17	0.6*♦		0.2*♦		0.5*♦		0.4*♦		1.0*♦	
Race/ethnicity										
▶ White	3.2	3.1	5.3	5.2	4.5	4.4	5.0	4.9	4.5	4.4
Black	0.9*♦	2.1	0.7*♦	5.0	1.0*♦	2.4	1.7*♦	3.0	1.2*♦	2.8
Hispanic	0.6*♦	1.4	0.9*♦	1.7	1.5*♦	2.6	2.1*♦	3.5	1.4*♦	1.5
Asian	5.5*♦	26.0	1.3*♦	6.3	3.9*♦	5.7	2.8*♦	4.1	5.4*♦	11.3
Other	...	...	3.5*♦	7.4	5.2*♦	7.7	2.5*♦	5.4	2.5*♦	5.3
Unknown	3.9*♦	...	4.6*♦	...	2.6*♦	...	5.1*♦	...	5.5*♦	...
Missing	2.0*	...	2.1*	...	4.0*♦	...	4.8*♦	...	4.4*♦	...
Region										
Northeast	2.0*♦	1.6	0.5*♦	1.1	2.8*♦	2.7	2.5*♦	4.2	3.4*♦	3.3
South	1.2*♦	1.2	2.1*	2.1	2.9*	4.9	3.2*	3.2	3.0*	3.0
▶ Midwest	4.6	4.6	6.8	6.7	5.7	5.6	7.0	6.9	6.5	6.4
West	0.9*♦	1.2	1.3*♦	2.2	2.6*♦	4.2	3.6*♦	3.4	2.6*♦	4.2
Gender										
Female	3.6*	3.5	6.1*	6.0	6.6*	6.6	7.6*	7.6	6.9*	6.8
▶ Male	1.4*	1.4	1.0*	1.0	1.1*	1.1	1.4*	1.4	1.5*	1.4

... 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 7-37. Nationally representative ambulatory surgery center visits for vesicoureteral reflux listed as primary diagnosis, count, rate<sup>a</sup>**

	Count	Rate
Total	6,486	8.8
Gender		
Female	4,786	13.2
▶ Male	1,700	4.5

▶ Denotes reference group.

<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 7-38. Physician office visits by privately insured individuals for vesicoureteral reflux listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=6,336)		2003 (N=6,737)		2004 (N=7,024)		2005 (N=7,136)		2006 (N=6,856)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	186.4	182.9	183.2	181.0	192.5	190.9	195.4	194.1	188.7	186.4
Age										
▶ 0-2	443.7		401.3		437.7		462.2		461.4	
3-10	223.1*		231.6*		239.3*		241.3*		223.5*	
11-17	34.6*		38.1*		39.5*		35.5*		35.7*	
Race/ethnicity										
▶ White	227.4	224.4	218.6	215.7	210.7	207.1	210.5	207.2	199.7	196.0
Black	75.9*	80.2	61.1*	63.9	64.5*	67.2	68.9*	72.9	85.4*	89.1
Hispanic	200.6*	207.9	175.9*	180.5	166.1*	172.2	168.5*	177.7	182.4*	189.2
Asian	155.4*	140.0	139.1*	126.0	179.4*	160.1	186.1*	169.7	175.6*	156.8
Other	157.2*	148.5	177.3*	167.4	218.9*	205.0	169.7*	162.9	166.8*	159.9
Unknown	211.7*	...	214.0*	...	235.2*	...	233.5*	...	215.7*	...
Missing	162.8*	...	155.0*	...	168.2*	...	179.5*	...	172.8*	...
Region										
Northeast	189.1*	175.6	168.3*	158.7	195.4*	186.0	203.5*	194.4	195.5	187.7
South	206.1*	208.4	195.8*	199.4	201.1*	205.9	205.6*	209.8	190.6	192.3
▶ Midwest	174.9	172.1	184.2	181.4	181.6	178.9	181.3	180.0	188.9	186.8
West	154.9*	147.6	152.7*	147.0	191.2*	185.9	193.7*	187.2	178.5*	172.2
Gender										
Female	293.2*	287.7	288.6*	284.7	301.9*	299.2	306.9*	305.3	291.5*	288.5
▶ Male	84.3	83.2	82.5	82.4	87.7	87.8	88.7	88.4	90.4	89.5

... 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 7-39. Nationally representative physician office visits for vesicoureteral reflux listed as any diagnosis, 2002-2007 (merged), 6-year count**

	<b>6-Year Count</b>
Total	607,551
Age	
0-2	235,271
3-10	360,083
11-17	12,197
Race/ethnicity	
White	602,192
Black	5,359
Hispanic	...
Region	
Northeast	41,474
South	336,673
Midwest	110,391
West	119,013
Gender	
Female	459,235
Male	148,316

... Data unavailable.

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



**Table 7-40. Emergency room visits by privately insured individuals for vesicoureteral reflux listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=12)		2003 (N=57)		2004 (N=43)		2005 (N=30)		2006 (N=33)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	0.4*	0.6	1.6	1.5	1.2	1.2	0.8	1.4	0.9	1.5
Age										
▶0-2	1.3*		3.2*		4.1*		2.4*		1.8*	
3-10	0.3**		2.1*		0.9**		1.0**		1.4**	
11-17	...		0.2**		0.3**		...		...	
Race/ethnicity										
▶ White	0.3*	0.6	1.1*	1.1	0.8*	0.8	0.3*	0.7	0.5*	1.3
Black	...	...	...	...	...	...	...	...	...	...
Hispanic	...	...	4.8**	4.9	5.5**	9.3	4.8**	7.9	4.0**	6.6
Asian	...	...	...	...	...	...	...	...	...	...
Other	...	...	...	...	...	...	...	...	...	...
Unknown	...	...	...	...	0.9**	...	2.6**	...	2.1**	...
Missing	0.5**	...	2.0**	...	0.8**	...	0.2**	...	0.4**	...
Region										
Northeast	...	...	0.5*	3.0	0.3*	0.6	...	...	...	...
South	0.4*	0.6	3.1*	3.1	2.2*	2.3	2.0	3.3	1.7**	2.8
▶ Midwest	0.4*	0.7	0.6*	1.0	0.6*	0.6	...	...	0.6*	1.0
West	0.2**	1.3	...	...	...	...	...	...	...	...
Gender										
Female	0.5**	0.9	2.3*	2.3	1.7*	1.7	1.3**	2.1	1.5**	2.4
▶ Male	0.2*	1.0	0.8*	0.8	0.7*	0.7	0.4*	0.6	0.4*	0.6

... 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.

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