

# **CHAPTER 6**

## **Urethral Diseases**

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**Stricture**  
**Hypospadias**

**Table 6-1. Codes used in the diagnosis and management of urethral diseases****Hypospadias****Males with one or more of the following:***ICD-9 diagnosis codes*

752.6 Hypospadias and epispadias and other penile anomalies

752.61 Hypospadias

*ICD-9 procedure codes*58.45<sup>a</sup> Repair of hypospadias and epispadias*CPT procedure codes*

54300 Plastic operation on penis for straightening of chordee (eg, hypospadias), with or without mobilization of urethra

54304 Plastic operation on penis for correction of chordee or for first stage hypospadias repair with or without transplantation of prepuce and/or skin flaps

54308 Urethroplasty for second stage hypospadias repair (including urinary diversion); less than 3 cm

54312 Urethroplasty for second stage hypospadias repair (including urinary diversion); greater than 3 cm

54316 Urethroplasty for second stage hypospadias repair (including urinary diversion) with free skin graft obtained from site other than genitalia

54318 Urethroplasty for third stage hypospadias repair to release penis from scrotum (eg, third stage Cecil repair)

54322 One stage distal hypospadias repair (with or without chordee or circumcision); with simple meatal advancement (eg, Magpi, V-flap)

54324 One stage distal hypospadias repair (with or without chordee or circumcision); with urethroplasty by local skin flaps (eg, flip-flap, prepuce flap)

54326 One stage distal hypospadias repair (with or without chordee or circumcision); with urethroplasty by local skin flaps and mobilization of urethra

54328 One stage distal hypospadias repair (with or without chordee or circumcision); with extensive dissection to correct chordee and urethroplasty with local skin flaps, skin graft patch, and/or island flap

54332 One stage proximal penile or penoscrotal hypospadias repair requiring extensive dissection to correct chordee and urethroplasty by use of skin graft tube and/or island flap

54336 One stage perineal hypospadias repair requiring extensive dissection to correct chordee and urethroplasty by use of skin graft tube and/or island flap

54340 Repair of hypospadias complications (i.e., fistula, stricture, diverticula); by closure, incision, or excision, simple

54344 Repair of hypospadias complications (i.e., fistula, stricture, diverticula); requiring mobilization of skin flaps and urethroplasty with flap or patch graft

54348 Repair of hypospadias complications (i.e., fistula, stricture, diverticula); requiring extensive dissection and urethroplasty with, flap, patch or tubed graft (includes urinary diversion)

54352 Repair of hypospadias cripple requiring extensive dissection and excision of previously constructed structures including re-release of chordee and reconstruction of urethra and penis by use of local skin as grafts and island flaps and skin brought in as flaps or grafts

54360 Plastic operation on penis to correct angulation

**Female Urethral Stricture****Females with one or more of the following:***ICD-9 diagnosis codes*

598 Urethral stricture

598.0 Urethral stricture due to infection

598.01 Urethral stricture due to diseases classified elsewhere

598.1 Traumatic urethral stricture

598.2 Postoperative urethral stricture

598.8 Other specified causes of urethral stricture

598.9 Urethral stricture

*CPT procedure codes*

52270 Cystourethroscopy, with internal urethrotomy; female

52276 Cystourethroscopy with direct vision internal urethrotomy

Continued on next page.

**Table 6-1 (continued). Codes used in the diagnosis and management of urethral diseases**

52281 <sup>b</sup>	Cystourethroscopy, with calibration and/or dilation of urethral stricture or stenosis, with or without meatotomy, with or without injection procedure for cystography, male or female
52282	Cystourethroscopy, with insertion of urethral stent
52283	Cystourethroscopy, with steroid injection into stricture
52285	Cystourethroscopy for treatment of the female urethral syndrome with any or all of the following: urethral meatotomy, urethral dilation, internal urethrotomy, lysis of urethrovaginal septal fibrosis, lateral incisions of the bladder neck, and fulguration of polyp(s) of urethra, bladder neck, and/or trigone
53430	Urethroplasty, reconstruction of female urethra
53450	Urethromeatoplasty, with mucosal advancement

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

598	Urethral stricture
598.0	Urethral stricture due to infection
598.01	Urethral stricture due to diseases classified elsewhere
598.1	Traumatic urethral stricture
598.2	Postoperative urethral stricture
598.8	Other specified causes of urethral stricture
598.9	Urethral stricture

*CPT procedure codes*

52275	Cystourethroscopy, with internal urethrotomy; male
52276	Cystourethroscopy with direct vision internal urethrotomy
52281 <sup>b</sup>	Cystourethroscopy, with calibration and/or dilation of urethral stricture or stenosis, with or without meatotomy, with or without injection procedure for cystography, male or female
52282	Cystourethroscopy, with insertion of urethral stent
52283	Cystourethroscopy, with steroid injection into stricture
53000	Urethrotomy or urethrostomy, external (separate procedure); pendulous urethra
53010	Urethrotomy or urethrostomy, external (separate procedure); perineal urethra, external
53020 <sup>b</sup>	Meatotomy, cutting of meatus (separate procedure); except infant
53025 <sup>b</sup>	Meatotomy, cutting of meatus (separate procedure); infant
53400	Urethroplasty; first stage, for fistula, diverticulum, or stricture (eg, Johansen type)
53405	Urethroplasty; second stage (formation of urethra), including urinary diversion
53410	Urethroplasty; one-stage reconstruction of male anterior urethra
53415	Urethroplasty, transpubic or perineal, one stage, for reconstruction or repair of prostatic or membranous urethra
53420	Urethroplasty, two-stage reconstruction or repair of prostatic or membranous urethra; first stage
53425	Urethroplasty, two-stage reconstruction or repair of prostatic or membranous urethra; second stage
53431	Urethroplasty with tubularization of posterior urethra and/or lower bladder for incontinence (eg, Tenago, Leadbetter procedure)
53450	Urethromeatoplasty, with mucosal advancement
53460	Urethromeatoplasty, with partial excision of distal urethral segment (Richardson type procedure)
53600 <sup>b</sup>	Dilation of urethral stricture by passage of sound or urethral dilator, male; initial
53601 <sup>b</sup>	Dilation of urethral stricture by passage of sound or urethral dilator, male; subsequent
53605 <sup>b</sup>	Dilation of urethral stricture or vesical neck by passage of sound or urethral dilator, male, general or conduction (spinal) anesthesia
53620 <sup>b</sup>	Dilation of urethral stricture by passage of filiform and follower, male; initial
53621 <sup>b</sup>	Dilation of urethral stricture by passage of filiform and follower, male; subsequent
53640 <sup>b</sup>	Passage of filiform and follower for acute vesical retention, male

<sup>a</sup>Include only if patient under 18 years old.<sup>b</sup>Included in definition of outpatient and physician office visits only.

**Table 6-2. Nationally representative inpatient stays for male urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=4,084)		2003 (N=4,208)		2004 (N=3,871)		2005 (N=3,433)		2006 (N=4,293)		2007 (N=3,583)	
	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	4.0	3.9	4.1	4.0	3.7	3.8	3.3	3.3	4.0	4.0	3.3	3.3
Age												
18-24	0.9		1.2		1.6		1.4		1.8		1.4	
25-34	1.7		1.9		1.6		1.8		1.9		1.6	
35-39	2.3		2.9		2.3		1.8		2.3		1.7	
40-44	2.9		1.9		1.8		1.9		3.1		2.0	
45-54	2.6		2.9		2.9		2.0		3.0		2.6	
55-64	3.7		4.8		4.1		3.5		4.6		3.3	
▶ 65-74	9.6		8.4		8.6		6.4		8.6		7.2	
75-84	15.9*		13.7*		15.2*		14.7*		12.8*		11.6*	
85+	30.5*		32.6*		21.3*		19.5*		24.4*		25.3*	
Race/ethnicity												
▶ White	2.3	2.4	2.8	2.8	2.6	2.7	2.4	2.4	2.8	2.8	2.2	2.2
Black	5.3*	5.3	4.9*	4.7	4.7*	4.7	3.5*	3.5	5.5*	5.5	4.0*	4.0
Hispanic	†	†	3.4*	3.3	2.3*	2.3	1.7*	1.7	2.6*	2.6	2.1*	2.0
Asian	1.1*	1.5	1.1*	1.9	1.5*	1.7	0.8*	2.5	1.0*	1.6	1.0*	2.0
Other	11.3*	13.7	5.2*	7.8	2.7*	4.7	3.7*	4.8	7.6*	7.5	7.7*	7.2
Region												
Northeast	4.1	3.9	5.0	4.7	4.5	4.5	3.8	3.8	4.3	4.3	3.4	3.3
South	4.7	4.6	4.3	4.2	4.4	4.4	3.1	3.1	4.8	4.8	3.8	3.8
▶ Midwest	3.6	3.6	3.6	3.6	3.4	3.5	4.1	4.1	2.8	2.8	3.5	3.5
West	3.3*	3.3	3.5*	3.5	2.4*	2.4	2.3*	2.3	3.8*	3.8	2.4*	2.4

▶ 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 6-3. Inpatient stays by Medicare beneficiaries for male urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=1,520)		2003 (N=1,080)		2004 (N=1,160)		2005 (N=700)		2006 (N=940)		2007 (N=1,020)	
	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	9.7	9.6	6.7	7.4	7.1	6.8	4.2	4.0	5.8	5.9	6.3	6.3
Under 65/65+												
< 65 Years	8.8* <sup>†</sup>	8.8	3.5* <sup>†</sup>	3.5	6.2* <sup>†</sup>	6.2	5.1* <sup>†</sup>	5.1	3.7* <sup>†</sup>	3.7	5.5* <sup>†</sup>	5.5
▶ 65+ Years	10.0	9.6	7.8	7.4	7.4	6.8	3.9 <sup>†</sup>	4.0	6.5	5.9	6.6	6.3
Age												
▶ 65-69	5.5 <sup>†</sup>		4.3 <sup>†</sup>		4.7 <sup>†</sup>		1.0 <sup>†</sup>		4.2 <sup>†</sup>		5.7 <sup>†</sup>	
70-74	9.1* <sup>†</sup>		3.9* <sup>†</sup>		4.6* <sup>†</sup>		5.3* <sup>†</sup>		6.8* <sup>†</sup>		6.2* <sup>†</sup>	
75-79	7.4* <sup>†</sup>		10.4* <sup>†</sup>		13.7* <sup>†</sup>		4.1* <sup>†</sup>		5.9* <sup>†</sup>		3.5* <sup>†</sup>	
80-84	15.4* <sup>†</sup>		11.1* <sup>†</sup>		6.0* <sup>†</sup>		4.8* <sup>†</sup>		7.3* <sup>†</sup>		8.6* <sup>†</sup>	
85-89	21.8* <sup>†</sup>		15.8* <sup>†</sup>		5.1* <sup>†</sup>		10.1* <sup>†</sup>		7.4* <sup>†</sup>		11.9* <sup>†</sup>	
90-94	42.8* <sup>†</sup>		32.6* <sup>†</sup>		39.2* <sup>†</sup>		7.6* <sup>†</sup>		30.0* <sup>†</sup>		14.7* <sup>†</sup>	
95-97	0.0* <sup>†</sup>		51.9* <sup>†</sup>		0.0* <sup>†</sup>		0.0* <sup>†</sup>		47.8* <sup>†</sup>		46.6* <sup>†</sup>	
98+	44.2* <sup>†</sup>		0.0* <sup>†</sup>		0.0* <sup>†</sup>		0.0* <sup>†</sup>		0.0* <sup>†</sup>		0.0* <sup>†</sup>	
Race/ethnicity												
▶ White	9.3	9.0	5.6	5.9	6.6	5.9	3.6 <sup>†</sup>	3.4	5.3	6.0	5.1	5.6
Black	10.6* <sup>†</sup>	13.6	19.3* <sup>†</sup>	27.7	12.5* <sup>†</sup>	21.4	7.5* <sup>†</sup>	7.3	6.3* <sup>†</sup>	2.5	16.6* <sup>†</sup>	18.7
Hispanic	12.9* <sup>†</sup>	0.0	6.2* <sup>†</sup>	12.6	0.0* <sup>†</sup>	0.0	5.8* <sup>†</sup>	0.0	6.0* <sup>†</sup>	11.0	11.7* <sup>†</sup>	12.9
Asian	18.8* <sup>†</sup>	90.5	0.0* <sup>†</sup>	0.0	8.3* <sup>†</sup>	0.0	7.8* <sup>†</sup>	21.4	23.3* <sup>†</sup>	11.9	0.0* <sup>†</sup>	0.0
Other	7.1* <sup>†</sup>	13.7	0.0* <sup>†</sup>	0.0	6.2* <sup>†</sup>	9.6	11.6* <sup>†</sup>	17.4	11.3* <sup>†</sup>	9.0	5.4* <sup>†</sup>	0.0
Unknown	76.0* <sup>†</sup>	...	0.0* <sup>†</sup>	...	0.0* <sup>†</sup>	...	0.0* <sup>†</sup>	...	0.0* <sup>†</sup>	...	0.0* <sup>†</sup>	...
Region												
▶ Northeast	8.0 <sup>†</sup>	4.9	7.8 <sup>†</sup>	9.1	8.4 <sup>†</sup>	7.9	5.8 <sup>†</sup>	5.5	6.6 <sup>†</sup>	5.6	9.2 <sup>†</sup>	9.3
South	12.9* <sup>†</sup>	14.5	7.0* <sup>†</sup>	8.6	6.0* <sup>†</sup>	7.1	4.1* <sup>†</sup>	4.0	6.3* <sup>†</sup>	6.3	4.4* <sup>†</sup>	4.6
Midwest	7.7* <sup>†</sup>	7.2	5.0* <sup>†</sup>	5.7	6.4* <sup>†</sup>	5.5	3.4* <sup>†</sup>	2.6	6.5* <sup>†</sup>	8.5	4.6* <sup>†</sup>	5.0
West	7.6* <sup>†</sup>	7.5	7.2* <sup>†</sup>	5.8	9.1* <sup>†</sup>	7.1	4.1* <sup>†</sup>	4.2	2.7* <sup>†</sup>	1.7	9.4* <sup>†</sup>	8.6

... 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 6-4. Inpatient stays by privately insured individuals for male urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=495)		2003 (N=495)		2004 (N=419)		2005 (N=472)		2006 (N=390)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	11.6	24.7	10.3	24.8	8.6	19.5	9.1	18.7	7.7	18.9
Age										
18-24	4.4 <sup>*♦</sup>		2.9 <sup>*♦</sup>		2.1 <sup>*♦</sup>		1.6 <sup>*♦</sup>		2.5 <sup>*♦</sup>	
25-34	5.7 <sup>*</sup>		3.3 <sup>*</sup>		3.1 <sup>*</sup>		3.0 <sup>*</sup>		3.1 <sup>*</sup>	
35-39	4.6 <sup>*♦</sup>		5.9 <sup>*</sup>		4.8 <sup>*♦</sup>		4.5 <sup>*♦</sup>		3.7 <sup>*♦</sup>	
40-44	5.0 <sup>*♦</sup>		6.2 <sup>*</sup>		4.7 <sup>*</sup>		5.0 <sup>*</sup>		6.0 <sup>*</sup>	
45-54	9.9 <sup>*</sup>		8.1 <sup>*</sup>		7.8 <sup>*</sup>		8.9 <sup>*</sup>		5.9 <sup>*</sup>	
55-64	20.0 <sup>*</sup>		18.4 <sup>*</sup>		15.0 <sup>*</sup>		16.8 <sup>*</sup>		15.5 <sup>*</sup>	
▶ 65-74	47.6		39.0		26.7		29.9		30.0	
75-84	98.7 <sup>*</sup>		95.6 <sup>*</sup>		68.6 <sup>*</sup>		58.6 <sup>*</sup>		71.8 <sup>*</sup>	
85+	...		132.6 <sup>*♦</sup>		129.6 <sup>*</sup>		75.5 <sup>*♦</sup>		82.5 <sup>*♦</sup>	
Race/ethnicity										
▶ White	11.6	21.1	11.4	25.1	8.4	19.5	9.1	18.6	7.9	20.0
Black	22.3 <sup>*♦</sup>	43.0	17.6 <sup>*♦</sup>	44.4	16.4 <sup>*</sup>	33.1	16.2 <sup>*</sup>	31.2	15.1 <sup>*♦</sup>	31.6
Hispanic	11.8 <sup>*♦</sup>	42.2	6.5 <sup>*♦</sup>	21.0	7.9 <sup>*</sup>	18.3	6.5 <sup>*♦</sup>	13.0	4.0 <sup>*♦</sup>	8.2
Asian	7.3 <sup>*♦</sup>	29.3	3.0 <sup>*♦</sup>	37.2	4.3 <sup>*♦</sup>	19.8	5.2 <sup>*♦</sup>	42.8	2.5 <sup>*♦</sup>	6.9
Other	...	...	3.3 <sup>*♦</sup>	...	9.1 <sup>*♦</sup>	30.2	8.4 <sup>*♦</sup>	21.8	2.0 <sup>*♦</sup>	79.6
Unknown	12.4 <sup>*♦</sup>	...	8.9 <sup>*♦</sup>	...	7.4 <sup>*♦</sup>	...	8.9 <sup>*</sup>	...	9.9 <sup>*</sup>	...
Missing	11.2 <sup>*</sup>	...	9.7 <sup>*</sup>	...	9.1 <sup>*</sup>	...	9.4 <sup>*</sup>	...	7.1 <sup>*</sup>	...
Region										
Northeast	14.0	27.7	10.6	23.8	8.1	15.9	8.3 <sup>*</sup>	14.6	9.3	20.6
South	11.3	22.9	11.0	24.7	8.5	22.3	8.8 <sup>*</sup>	18.5	7.8	18.8
▶ Midwest	12.2	25.4	10.9	26.7	9.4	19.1	11.3	23.5	7.0	20.1
West	8.6 <sup>*</sup>	23.1	6.3 <sup>*</sup>	17.2	6.9 <sup>*</sup>	16.4	5.8 <sup>*</sup>	9.5	7.2 <sup>*</sup>	15.9

... 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 6-5. Hospital outpatient visits by Medicare beneficiaries for male urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=3,060)		2003 (N=3,700)		2004 (N=4,480)		2005 (N=3,540)		2006 (N=3,580)		2007 (N=3,640)	
	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	19.6	17.2	23.0	22.0	27.3	27.4	21.5	20.1	22.0	21.1	22.4	23.2
Under 65/65+												
< 65 Years	25.8*	25.8	22.3	22.3	24.0*	24.0	19.1*	19.1	21.5	21.5	19.6*	19.6
▶ 65+ Years	17.5	17.2	23.3	22.0	28.5	27.4	22.3	20.1	22.2	21.1	23.4	23.2
Age												
▶ 65-69	10.5*		12.3*		24.8		20.0		22.9		15.7	
70-74	25.4*		24.0*		15.0*♦		25.7*		13.6*♦		19.3*♦	
75-79	13.9*♦		24.9*		32.1*		14.8*♦		29.5*		29.5*	
80-84	15.4*♦		26.0*♦		29.0*♦		15.5*♦		20.5*♦		39.3*	
85-89	30.0*♦		39.5*♦		58.4*♦		25.3*♦		14.8*♦		19.0*♦	
90-94	42.8*♦		97.7*♦		125.3*♦		120.9*♦		82.6*♦		44.1*♦	
95-97	...		51.9*♦		0.0*♦		47.5*♦		...		46.6*♦	
Race/ethnicity												
▶ White	17.9	16.0	22.1	20.7	25.8	25.8	19.8	17.9	20.6	17.8	20.0	20.2
Black	29.2*♦	31.9	24.4*♦	26.7	30.1*♦	44.3	36.2*♦	50.1	35.6*♦	63.6	39.7*	50.6
Hispanic	38.8*♦	39.4	37.3*♦	32.3	90.3*♦	149.6	29.2*♦	0.0	29.9*♦	76.2	17.6*♦	85.9
Asian	0.0*♦	0.0	44.1*♦	86.0	8.3*♦	44.1	15.7*♦	33.0	31.0*♦	22.4	22.1*♦	80.6
Other	42.9*♦	56.1	19.5*♦	66.9	31.0*♦	39.3	17.4*♦	66.2	5.6*♦	69.6	43.0*♦	68.2
Unknown	...	...	80.1*♦	...	...	...	0.0*♦	...	...	...	...	...
Region												
▶ Northeast	23.3	20.0	29.4	25.3	35.6	35.8	25.8	20.7	33.5	27.2	32.2	34.2
South	14.2*	14.4	19.2*	19.1	21.6*	22.3	14.7*	16.2	17.1*	19.4	14.6*	16.4
Midwest	22.5*	18.0	21.0*	17.8	31.1*	25.6	29.5*	24.3	25.1*	20.6	29.0*	26.4
West	23.5*	19.1	27.4*	31.5	25.8*	31.6	20.4*	21.0	16.5*♦	18.6	20.1*	21.3

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

	2002 (N=2,864)		2003 (N=2,727)		2004 (N=2,818)		2005 (N=2,905)		2006 (N=2,590)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	66.9	113.4	56.9	108.5	57.6	106.0	55.9	100.5	50.8	96.3
Age										
18-24	26.3*		15.8*		17.8*		16.3*		16.9*	
25-34	39.2*		24.4*		31.3*		25.2*		23.5*	
35-39	50.7*		39.0*		38.8*		37.5*		36.5*	
40-44	46.6*		41.5*		40.8*		36.9*		39.8*	
45-54	63.6*		61.2*		57.1*		54.7*		53.1*	
55-64	126.7*		111.5*		103.7*		103.9*		99.9*	
▶ 65-74	209.5		189.8		180.2		168.3		171.0	
75-84	256.6*		251.4*		285.0*		275.9*		220.8*	
85+	...		283.5*		241.8*		164.2*		227.0*	
Race/ethnicity										
▶ White	73.5	121.4	63.8	117.0	60.9	110.9	57.6	102.7	53.7	98.4
Black	109.2*	149.4	84.1*	139.8	80.1*	133.6	72.2*	129.0	57.6*	117.4
Hispanic	71.6*	120.1	61.7*	118.1	49.7*	104.3	50.2*	89.6	45.7*	94.3
Asian	24.8*♦	38.9	33.3*	83.0	25.0*	54.8	29.4*	64.3	17.7*♦	46.2
Other	51.5*♦	160.6	39.0*♦	79.8	45.7*♦	104.7	58.5*♦	115.8	49.1*♦	151.9
Unknown	72.3*	...	55.9*	...	51.3*	...	52.0*	...	51.4*	...
Missing	60.9*	...	47.6*	...	51.5*	...	53.7*	...	45.6*	...
Region										
Northeast	60.1*	102.9	50.3*	82.0	48.6*	92.3	41.7*	74.0	51.4	101.0
South	70.1	116.1	57.0*	110.1	56.0	104.1	56.6	101.9	52.8	102.1
▶ Midwest	73.9	128.4	65.9	124.0	71.4	122.0	64.1	113.3	51.5	100.9
West	43.7*	66.1	40.4*	87.4	38.7*	81.1	47.7*	83.8	43.6*	73.9

... 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 6-7. Ambulatory surgery center visits by Medicare beneficiaries for male urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=13,980)		2003 (N=14,040)		2004 (N=13,680)		2005 (N=14,280)		2006 (N=13,440)		2007 (N=13,420)	
	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	119.5	137.9	119.2	139.0	112.9	133.2	120.8	141.8	122.3	145.0	118.7	141.9
Age												
▶ 65-69	77.9		93.3		88.0		109.9		87.4		87.7	
70-74	130.8*		135.0*		123.4*		116.1*		134.1*		141.4*	
75-79	161.9*		167.0*		154.2*		162.7*		180.7*		159.9*	
80-84	204.2*		174.2*		183.4*		208.2*		207.9*		210.0*	
85-89	210.1*		192.1*		193.1*		169.3*		195.5*		185.7*	
90-94	248.5*♦		244.1*		180.1*♦		151.2*♦		210.3*♦		154.2*♦	
95-97	53.9*♦		51.9*♦		202.1*♦		189.9*♦		239.1*♦		139.9*♦	
98+	...		...		85.8*♦		...		0.0*♦		40.4*♦	
Race/ethnicity												
▶ White	117.2	135.3	115.7	134.3	112.7	129.7	118.9	139.3	120.9	139.9	114.9*	137.1
Black	157.9*	207.5	145.2*	195.9	129.2*	195.7	161.2*	202.6	149.9*	236.7	176.7*	252.7
Hispanic	77.5*♦	149.2	161.5*♦	186.3	90.3*♦	99.1	93.5*♦	130.3	131.7*♦	147.2	111.5*♦	203.1
Asian	28.2*♦	47.7	70.6*♦	129.4	58.4*♦	69.3	7.8*♦	21.4	38.8*♦	66.5	29.4*♦	28.2
Other	121.4*♦	98.8	117.1*♦	131.9	105.3*♦	169.7	110.5*♦	173.9	79.1*♦	106.0	69.8*♦	109.9
Unknown	304.2*♦	...	320.5*♦	...	146.1*♦	...	233.8*♦	...	497.1*♦	...	350.6*♦	...
Region												
▶ Northeast	136.2	161.4	137.1	163.7	121.5	138.7	133.1	156.5	121.7	139.8	106.5	123.9
South	120.9*	141.0	120.8*	144.0	109.4*	133.0	126.8*	148.2	126.0*	154.9	115.5*	142.1
Midwest	125.8*	137.1	127.5*	139.1	132.9*	149.8	128.9*	145.4	145.4*	162.5	144.7*	165.2
West	87.9*	102.2	83.8*	100.5	83.1*	103.8	83.6*	107.3	83.2*	102.5	103.4*	129.2

... 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 6-8. Ambulatory surgery center visits by privately insured individuals for male urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=407)		2003 (N=412)		2004 (N=463)		2005 (N=513)		2006 (N=570)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	9.5	14.6	8.6	14.6	9.5	16.1	9.9	17.1	11.2	21.9
Age										
18-24	4.9*♦		2.9*♦		2.5*♦		3.3*♦		2.9*♦	
25-34	5.3*		5.2*		5.7*		4.7*		6.3*	
35-39	8.8*		5.2*		6.9*		7.4*		8.5*	
40-44	7.3*		7.4*		7.3*		6.7*		9.1*	
45-54	10.0*		9.0*		10.8*		9.5*		9.1*	
55-64	16.2*		17.4		16.5*		17.9*		23.2*	
▶ 65-74	24.4		22.2		23.1		27.8		38.6	
75-84	28.0*♦		31.9*♦		42.6*		44.4*		61.0*	
85+	...		13.7*♦		17.3*♦		36.1*♦		51.6*♦	
Race/ethnicity										
▶ White	12.1	18.5	10.5	17.6	9.9	16.2	10.2	17.8	12.3	22.8
Black	20.0*♦	29.0	11.2*♦	19.9	9.8*♦	17.2	12.1*♦	20.4	15.6*♦	40.6
Hispanic	9.5*♦	14.3	10.0*♦	18.2	11.0*	14.6	8.3*	11.6	11.1*	21.6
Asian	1.5*♦	18.0	5.0*♦	31.0	5.0*♦	7.9	7.8*♦	44.4	4.4*♦	12.3
Other	4.7*♦	31.1	6.5*♦	32.5	4.6*♦	...	8.4*♦	21.8	12.3*♦	23.0
Unknown	7.4*♦	...	5.8*♦	...	8.4*♦	...	8.0*♦	...	10.7*	...
Missing	7.5*	...	6.4*	...	8.4*	...	10.0*	...	5.8*	...
Region										
Northeast	9.8	12.2	7.6	12.7	11.2	15.7	8.0	13.1	11.3*	20.9
South	11.2*	17.1	10.1*	18.1	9.2	17.7	11.1	20.1	14.1*	31.0
▶ Midwest	8.5	14.7	7.9	12.9	10.0	16.9	10.2	17.8	8.6	15.1
West	6.0*	10.0	6.3*	12.7	7.6*	12.0	6.7*	10.8	7.5*	13.9

... 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 6-9. Nationally representative ambulatory surgery center visits for male urethral stricture listed as primary diagnosis, count, rate<sup>a</sup>**

	Count	Rate
Total	34,316	32.3
Age		
25-34	2,249	11.3*
35-39	3,249	31.5*
40-44	1,597	14.5*
45-54	4,667	22.3*
55-64	4,397	29.6*
▶ 65-74	15,494	181.7
75-84	2,663	50.0*

▶ 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 6-10. Physician office visits by Medicare beneficiaries for male urethral stricture listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=99,760)		2003 (N=104,500)		2004 (N=107,380)		2005 (N=107,880)		2006 (N=108,740)		2007 (N=108,320)	
	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	638.8	781.5	650.1	804.0	655.5	803.0	654.1	798.6	669.5	822.6	666.7	824.0
Under 65/65+												
< 65 Years	230.3*	230.3	230.5*	230.5	216.0*	216.0	226.3*	226.3	233.2*	233.2	234.2*	234.2
▶ 65+ Years	773.5	781.5	791.1	804.0	805.8	803.0	805.2	798.6	825.1	822.6	826.3	824.0
Age												
▶ 65-69	374.7		408.5		390.1		413.8		405.9		423.2	
70-74	618.2*		587.4*		710.3*		666.9*		706.3*		702.1*	
75-79	969.6*		1,015*		969.4*		1,000*		1,069*		1,018*	
80-84	1,180*		1,238*		1,283*		1,207*		1,203*		1,283*	
85-89	1,629*		1,642*		1,387*		1,422*		1,457*		1,411*	
90-94	1,474*		1,221*		1,699*		1,807*		1,772*		1,630*	
95-97	1,994*		2,285*		1,769*		2,042*		1,483*		1,679*	
98+	132.6*♦		130.8*♦		343.2*♦		590.0*♦		164.7*♦		282.8*♦	
Race/ethnicity												
▶ White	635.6	764.6	642.8	783.4	650.6	783.9	654.1	787.3	658.4	805.9	668.4	818.1
Black	725.6*	1,081	724.6*	1,133	713.7*	1,126	662.1*	1,041	759.4*	1,176	741.4*	1,136
Hispanic	504.0*	751.1	639.8*	786.3	608.0*	712.7	595.8*	644.6	712.3*	713.1	580.9*	601.4
Asian	423.2*	430.6	520.4*	566.0	483.6*	505.5	313.9*	333.1	418.6*	445.9	331.1*	360.7
Other	492.9*	716.6	624.4*	747.2	600.8*	791.2	727.0*	1,082	655.1*	912.2	483.2*	702.3
Unknown	2,129*♦	...	1,603*♦	...	2,484*	...	3,352*	...	3,397*	...	2,805*	...
Region												
▶ Northeast	730.4	911.7	799.9	990.2	707.3	859.7	737.2	909.1	792.5	959.1	810.5	1,031
South	659.3*	806.0	686.0*	827.7	701.5*	875.5	712.5*	874.3	738.8*	913.1	705.1*	868.4
Midwest	595.0*	701.5	546.0*	663.9	580.7*	684.1	586.7*	676.0	592.4*	700.6	595.6*	697.4
West	552.2*	696.7	553.8*	750.8	602.8*	754.8	533.2*	688.8	496.3*	653.3	531.9*	689.5

... 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 6-11. Physician office visits by privately insured individuals for male urethral stricture listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=8,503)		2003 (N=8,869)		2004 (N=9,530)		2005 (N=10,681)		2006 (N=9,152)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	198.5	409.7	185.2	419.2	194.8	430.2	205.5	431.6	179.7	418.4
Age										
18-24	42.9*		39.0*		30.2*		32.0*		32.5*	
25-34	85.9*		67.9*		75.4*		64.4*		64.7*	
35-39	120.2*		100.7*		107.5*		104.7*		102.5*	
40-44	115.7*		122.5*		116.0*		117.1*		120.3*	
45-54	182.3*		163.5*		180.3*		185.5*		174.9*	
55-64	368.6*		352.8*		361.8*		387.6*		380.5*	
▶ 65-74	736.2		730.9		774.1		749.3		739.0	
75-84	1,478*		1,357*		1,424*		1,406*		1,359*	
85+	...		1,834*		1,477*		1,405*		1,264*	
Race/ethnicity										
▶ White	223.1	434.6	209.1	459.0	198.8	428.0	207.0	429.8	191.9	436.5
Black	314.8*	468.4	297.9*	501.7	252.3*	453.1	271.1*	487.1	231.3*	514.8
Hispanic	219.6*	484.0	195.0*	520.8	169.8*	444.4	175.4*	421.9	148.5*	346.0
Asian	122.3*	297.5	169.6*	583.5	140.9*	422.8	127.5*	398.0	106.9*	300.4
Other	201.5*	338.8	139.8*	349.4	203.2*	474.7	196.5*	469.4	180.1*	453.1
Unknown	214.9*	...	209.7*	...	166.6*	...	187.0*	...	170.8*	...
Missing	175.0*	...	145.1*	...	198.1*	...	227.2*	...	143.9*	...
Region										
Northeast	224.5*	421.0	200.7*	413.2	218.0*	437.5	230.0*	461.3	222.0*	495.6
South	208.9*	448.1	194.9*	462.9	204.8*	496.2	214.4*	482.4	189.1*	453.9
▶ Midwest	186.2	372.3	173.3	363.9	179.3	361.1	182.0	355.6	142.5	336.9
West	176.4*	407.2	169.3*	468.1	178.8*	418.0	209.8*	459.1	191.8*	419.6

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

	<b>6-Year Count</b>
Total	1,212,859
Age	
40-44	42,882
45-54	75,157
55-64	205,473
65-74	462,739
75-84	313,435
85+	113,173
Race/ethnicity	
White	1,135,916
Black	76,943
Region	
Northeast	285,111
South	378,696
Midwest	292,957
West	256,095

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

**Table 6-13. Emergency room visits by Medicare beneficiaries for male urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=1,160)		2003 (N=1,220)		2004 (N=1,000)		2005 (N=920)		2006 (N=920)		2007 (N=960)	
	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	7.4	7.9	7.6	8.0	6.1	6.7	5.6	6.9	5.7	6.2	5.9	6.2
Under 65/65+												
< 65 Years	4.1 <sup>*♦</sup>	4.1	4.5 <sup>*♦</sup>	4.5	5.3 <sup>*♦</sup>	5.3	1.9 <sup>*♦</sup>	1.9	2.8 <sup>*♦</sup>	2.8	4.1 <sup>*♦</sup>	4.1
▶ 65+ Years	8.5	7.9	8.6	8.0	6.4	6.7	6.9	6.9	6.7	6.2	6.6	6.2
Age												
▶ 65-69	2.8 <sup>♦</sup>		4.8 <sup>♦</sup>		4.7 <sup>♦</sup>		4.6 <sup>♦</sup>		5.2 <sup>♦</sup>		6.3 <sup>♦</sup>	
70-74	6.5 <sup>*♦</sup>		8.4 <sup>*♦</sup>		5.2 <sup>*♦</sup>		2.6 <sup>*♦</sup>		8.2 <sup>*♦</sup>		4.1 <sup>*♦</sup>	
75-79	14.7 <sup>*♦</sup>		7.2 <sup>*♦</sup>		5.6 <sup>*♦</sup>		5.8 <sup>*♦</sup>		5.9 <sup>*♦</sup>		3.5 <sup>*♦</sup>	
80-84	5.1 <sup>*♦</sup>		11.1 <sup>*♦</sup>		7.2 <sup>*♦</sup>		13.1 <sup>*♦</sup>		6.0 <sup>*♦</sup>		8.6 <sup>*♦</sup>	
85-89	19.1 <sup>*♦</sup>		15.8 <sup>*♦</sup>		20.3 <sup>*♦</sup>		20.2 <sup>*♦</sup>		4.9 <sup>*♦</sup>		14.3 <sup>*♦</sup>	
90-94	42.8 <sup>*♦</sup>		32.6 <sup>*♦</sup>		...		22.7 <sup>*♦</sup>		15.0 <sup>*♦</sup>		14.7 <sup>*♦</sup>	
95-97	53.9 <sup>*♦</sup>		103.8 <sup>*♦</sup>		...		...		95.6 <sup>*♦</sup>		93.3 <sup>*♦</sup>	
98+	...		...		42.9 <sup>*♦</sup>		...		...		0.0 <sup>*♦</sup>	
Race/ethnicity												
▶ White	6.6	6.5	6.9	7.1	6.3	7.0	5.3	6.8	5.4	6.1	5.4	5.4
Black	14.6 <sup>*♦</sup>	27.1	11.6 <sup>*♦</sup>	12.9	5.0 <sup>*♦</sup>	5.8	7.5 <sup>*♦</sup>	9.6	6.3 <sup>*♦</sup>	6.6	7.7 <sup>*♦</sup>	11.2
Hispanic	...	...	...	...	6.0 <sup>*♦</sup>	...	...	...	6.0 <sup>*♦</sup>	...	5.9 <sup>*♦</sup>	49.6
Asian	...	...	26.5 <sup>*♦</sup>	67.0	...	...	...	...	7.8 <sup>*♦</sup>	...	7.4 <sup>*♦</sup>	121.8
Other	14.3 <sup>*♦</sup>	179.5	13.0 <sup>*♦</sup>	94.5	...	...	17.4 <sup>*♦</sup>	86.7	5.6 <sup>*♦</sup>	30.4	16.1 <sup>*♦</sup>	50.1
Unknown	76.0 <sup>*♦</sup>	...	...	...	73.0 <sup>*♦</sup>	...	...	...	82.9 <sup>*♦</sup>	...	...	...
Region												
▶ Northeast	5.3 <sup>♦</sup>	4.8	9.1 <sup>♦</sup>	11.0	2.6 <sup>♦</sup>	3.6	4.5 <sup>♦</sup>	10.5	7.2 <sup>♦</sup>	6.5	5.3 <sup>♦</sup>	8.4
South	6.9 <sup>*♦</sup>	7.4	6.1 <sup>*♦</sup>	5.4	7.2 <sup>*♦</sup>	7.7	5.6 <sup>*♦</sup>	6.3	6.0 <sup>*♦</sup>	7.2	6.0 <sup>*♦</sup>	5.0
Midwest	10.2 <sup>*♦</sup>	12.1	10.5 <sup>*♦</sup>	10.8	9.4 <sup>*♦</sup>	9.6	7.4 <sup>*♦</sup>	9.1	4.0 <sup>*♦</sup>	5.2	6.6 <sup>*♦</sup>	7.3
West	6.8 <sup>*♦</sup>	9.4	5.1 <sup>*♦</sup>	8.0	2.8 <sup>*♦</sup>	4.3	4.1 <sup>*♦</sup>	8.1	5.5 <sup>*♦</sup>	6.5	5.4 <sup>*♦</sup>	7.8

... 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 6-14. Emergency room visits by privately insured individuals for male urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=100)		2003 (N=124)		2004 (N=63)		2005 (N=58)		2006 (N=64)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	2.3	3.8	2.6	4.5	1.3	2.7	1.1	2.5	1.3	3.3
Age										
18-24	0.2**		1.1**		0.5**		0.1**		0.3**	
25-34	1.5**		1.1**		0.3**		0.7**		0.2**	
35-39	2.7**		1.3**		1.2**		...		0.2**	
40-44	2.3**		2.1**		0.2**		0.2**		0.3**	
45-54	1.7**		2.6**		1.5*		0.4**		1.0**	
55-64	4.0*		6.3		2.6*		2.5**		3.9**	
▶ 65-74	7.1*		9.8*		3.1*		7.4*		11.6*	
75-84	9.3**		3.7**		10.6**		6.6**		...	
85+	...		4.6**		8.6**		9.9**		...	
Race/ethnicity										
▶ White	2.5	4.2	1.6	2.7	1.0	2.5	0.7*	1.8	0.8*	1.9
Black	3.5**	53.6	7.2**	14.0	4.9**	9.5	3.5**	17.0	9.1**	42.6
Hispanic	...	...	3.4**	15.0	1.0**	9.2	2.8**	27.9	2.4**	10.7
Asian	...	...	...	...	...	...	0.7**	...	...	...
Other	14.1**	69.0	...	...	...	...	...	...	...	...
Unknown	...	...	4.5**	...	0.3**	...	0.3**	...	0.3**	...
Missing	2.5*	...	3.3*	...	2.3**	...	2.2**	...	1.5**	...
Region										
Northeast	3.3*	5.0	3.5*	7.1	0.4**	2.4	...	...	...	...
South	1.9*	3.1	3.0	5.3	1.6	3.5	1.7	4.1	2.3*	7.2
▶ Midwest	3.0	5.2	2.5	4.7	1.7*	3.5	1.3*	3.0	0.7*	0.9
West	1.5**	2.8	0.5**	1.5	0.2**	1.3	...	...	0.1**	1.0

... 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 6-15. Use of retrograde urethrocytography, or injection procedure for urethrogram among male Medicare beneficiaries with urethral stricture, in any setting, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=1,660)		2003 (N=1,760)		2004 (N=1,580)		2005 (N=1,600)		2006 (N=1,440)		2007 (N=1,540)	
	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	1,481	2,051	1,497	1,720	1,371	1,852	1,355	1,536	1,255	1,556	1,357	1,727
Age												
▶ 65-69	3,880		1,946*		2,951*		1,443*		2,144*		2,336*	
70-74	900.1*		1,538*		1,809*		1,476*		2,095*		2,028*	
75-79	1,531*		1,564*		1,317*		2,217*		925.2*		1,013*	
80-84	858.8*		2,205*		972.8*		1,042*		702.1*		1,647*	
85-89	1,797*		950.9*		687.3*		1,188*		841.8*		502.5*	
90-94	1,596*		1,554*		...		1,435*		2,597*		952.4*	
Race/ethnicity												
▶ White	1,489	1,908	1,445	1,626	1,368	1,805	1,349	1,486	1,225	1,469	1,252	1,551
Black	1,431*	4,780	1,378*	1,941	1,560*	2,482	1,440*	1,785	1,303*	1,662	2,253*	2,899
Hispanic	2,020*	8,052	5,691*	20,044	...	...	793.7*	5,882	833.3*	8,333	909.1*	5,263
Asian	...	...	1,852*	16,667	...	...	...	...	2,222*	11,111	1,923*	11,111
Other	1,852*	9,091	...	...	2,703*	6,254	2,564*	6,687	1,739*	4,184	1,681*	7,407
Unknown	...	...	...	...	...	...	...	...	4,000*	...	...	...
Region												
▶ Northeast	885.0*	1,346	1,148*	1,097	1,054*	1,356	1,536*	1,726	1,098*	1,240	611.9*	1,310
South	2,083*	3,121	2,033*	2,349	1,264*	1,740	1,177*	1,270	1,568*	2,099	1,642*	2,236
Midwest	857.1*	1,366	831.6*	1,141	1,577*	2,119	1,541*	1,846	827.6*	1,013	1,541*	1,749
West	1,711*	2,461	1,641*	2,397	1,754*	3,121	1,278*	1,940	1,365*	2,106	1,299*	2,324

... 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 males with urethral stricture.<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 6-16. Male Medicare beneficiaries with a diagnosis of urethral stricture and urinary incontinence in the same year, count,<sup>a</sup> percent<sup>b</sup>**

	2002		2003		2004		2005		2006		2007	
	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Total <sup>c</sup>	18,340	16.4%	19,280	16.4%	20,940	18.2%	21,620	18.3%	21,740	19.0%	22,040	19.4%
Age												
65-69	2,520	15.8%	2,940	15.9%	3,320	18.1%	3,160	16.3%	3,160	17.8%	3,100	17.2%
70-74	3,760	16.9%	3,660	16.6%	3,880	16.7%	3,880	16.8%	3,980	18.1%	4,340	20.0%
75-79	4,120	16.6%	4,340	16.2%	5,080	19.7%	5,340	21.1%	5,220	20.1%	5,080	21.4%
80-84	4,320	20.6%	4,700	22.5%	4,460	21.7%	5,240	24.8%	4,760	23.9%	4,880	23.6%
85-89	2,480	20.3%	2,580	20.4%	3,140	27.0%	2,800	23.8%	3,420	28.8%	3,140	26.3%
90-94	1,020	27.1%	860	22.3%	880	22.4%	940	22.5%	1,020	22.1%	1,280	30.5%
95-97	100	13.9%	180	30.0%	160	30.8%	260	33.3%	140	26.9%	160	20.0%
98+	20	16.7%	20	11.1%	20	11.1%	...	...	40	22.2%	60	33.3%
Race/ethnicity												
White	15,860	16.9%	16,140	16.4%	17,400	18.0%	18,220	18.3%	18,380	19.1%	19,140	20.0%
Black	1,760	14.0%	1,980	15.2%	2,200	17.2%	2,160	17.3%	1,980	16.1%	1,980	17.2%
Hispanic	240	12.1%	460	18.7%	520	25.2%	600	23.8%	540	22.5%	340	15.5%
Asian	200	23.8%	300	27.8%	400	36.4%	180	19.6%	320	35.6%	140	13.5%
Other	220	10.2%	360	15.9%	340	15.3%	340	14.5%	400	17.4%	360	15.1%
Unknown	60	12.5%	40	10.0%	80	14.8%	120	25.0%	120	24.0%	80	16.7%
Region												
Northeast	4,060	18.0%	4,300	17.6%	4,660	20.5%	4,660	19.9%	4,600	19.4%	4,220	18.4%
South	7,380	16.4%	7,440	15.8%	8,140	17.2%	8,600	18.1%	8,600	18.7%	8,960	19.9%
Midwest	4,320	15.4%	4,500	15.6%	4,760	17.1%	5,320	17.8%	5,640	19.4%	5,380	18.8%
West	2,580	15.8%	3,040	17.8%	3,380	19.8%	3,040	17.7%	2,900	18.0%	3,480	20.5%

... Data unavailable.

<sup>a</sup>Unweighted counts multiplied by 20 to arrive at counts in the table.

<sup>b</sup>Percent of males with urethral stricture who also have a diagnosis of urinary incontinence.

<sup>c</sup>Persons of other races, unknown race and ethnicity, and other region are included in the totals.

NOTE: Counts less than 600 should be interpreted with caution.

SOURCE: Centers for Medicare and Medicaid Services, 2002-2007.

**Table 6-17. Male Medicare beneficiaries with a diagnosis of urethral stricture and urinary tract infection in the same year, count,<sup>a</sup> percent<sup>b</sup>**

	2002		2003		2004		2005		2006		2007	
	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Total <sup>c</sup>	54,580	48.7%	57,600	49.0%	56,060	48.7%	57,320	48.5%	56,640	49.4%	57,300	50.5%
Age												
65-69	7,540	47.2%	8,660	46.8%	9,040	49.4%	9,620	49.6%	9,280	52.4%	9,420	52.4%
70-74	11,640	52.4%	11,200	50.7%	11,160	48.1%	11,320	49.1%	11,220	51.1%	11,560	53.3%
75-79	12,740	51.3%	14,080	52.4%	13,220	51.2%	13,240	52.4%	14,020	54.0%	12,280	51.8%
80-84	12,160	58.0%	12,680	60.8%	11,940	58.1%	12,700	60.1%	11,240	56.4%	12,520	60.7%
85-89	7,020	57.4%	7,640	60.5%	7,340	63.1%	6,940	58.9%	7,000	58.9%	7,380	61.8%
90-94	2,860	76.1%	2,780	72.0%	2,780	70.9%	2,860	68.4%	3,300	71.4%	3,260	77.6%
95-97	560	77.8%	460	76.7%	420	80.8%	540	69.2%	440	84.6%	620	77.5%
98+	60	50.0%	100	55.6%	160	88.9%	100	62.5%	140	77.8%	260	144.4%
Race/ethnicity												
White	45,420	48.3%	47,500	48.3%	46,360	48.1%	48,580	48.9%	47,360	49.2%	47,960	50.1%
Black	6,420	51.0%	6,720	51.5%	6,760	52.7%	5,500	44.0%	6,080	49.5%	6,200	53.7%
Hispanic	1,120	56.6%	1,480	60.2%	1,100	53.4%	1,380	54.8%	1,140	47.5%	1,120	50.9%
Asian	620	73.8%	600	55.6%	640	58.2%	520	56.5%	580	64.4%	640	61.5%
Other	860	39.8%	980	43.4%	900	40.5%	1,100	47.0%	1,280	55.7%	1,120	47.1%
Unknown	140	29.2%	320	80.0%	300	55.6%	240	50.0%	200	40.0%	260	54.2%
Region												
Northeast	11,280	49.9%	11,960	49.0%	10,680	46.9%	11,920	50.9%	12,240	51.7%	12,040	52.6%
South	22,000	48.8%	23,400	49.6%	23,920	50.4%	23,220	48.8%	23,420	51.0%	22,300	49.5%
Midwest	12,880	46.0%	13,300	46.1%	13,020	46.7%	13,740	46.0%	13,380	46.1%	14,320	50.1%
West	8,420	51.5%	8,940	52.4%	8,440	49.4%	8,440	49.0%	7,600	47.1%	8,640	51.0%

<sup>a</sup>Unweighted counts multiplied by 20 to arrive at counts in the table.

<sup>b</sup>Percent of males with urethral stricture who also have a diagnosis of urinary tract infection.

<sup>c</sup>Persons of other races, unknown race and ethnicity, and other region are included in the totals.

NOTE: Counts less than 600 should be interpreted with caution.

SOURCE: Centers for Medicare and Medicaid Services, 2002-2007.

**Table 6-18. Nationally representative inpatient stays for female urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=532)		2003 (N=509)		2004 (N=387)		2005 (N=363)		2006 (N=364)		2007 (N=367)	
	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	0.5	0.5	0.5	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.4
Age												
18-24	†		†		†		†		†		...	
25-34	0.3		0.3		†		†		0.3		†	
35-39	0.3		0.4		†		†		†		†	
40-44	0.5		0.3		†		0.3		0.3		†	
45-54	0.3		0.4		0.3		0.3		0.4		0.4	
55-64	0.5		0.5		0.7		0.4		0.2		0.4	
▶ 65-74	0.8		0.8		0.7		0.4		0.5		0.5	
75-84	1.0*		1.0*		0.6*		0.8*		0.5*		1.0*	
85+	2.2*		†		1.4*		1.5*		†		†	
Race/ethnicity												
▶ White	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3
Black	†	0.6	0.4*	0.4	0.3*	0.7	†	0.9	†	0.4	0.3*	0.5
Hispanic	†	†	0.3*	1.1	†	0.6	†	0.5	†	0.5	0.3*	0.5
Asian	...	...	†	0.8	†	0.8	...	...	...	...	†	0.7
Other	...	...	†	1.3	...	...	†	1.3	†	4.0	...	...
Region												
Northeast	0.4	0.4	0.6	0.6	0.4	0.7	0.4	0.5	0.3	0.4	0.3	0.5
South	0.6	0.6	0.5	0.5	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.5
▶ Midwest	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.6
West	0.2*	0.4	0.2*	0.4	†	0.3	0.1*	0.2	†	0.3	0.1*	0.2

... 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 6-19. Inpatient stays by privately insured individuals for female urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=204)		2003 (N=178)		2004 (N=137)		2005 (N=172)		2006 (N=114)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	4.5	7.2	3.5	5.3	2.7	4.0	3.1	5.3	2.1	3.6
Age										
18-24	1.5 <sup>*♦</sup>		1.3 <sup>*♦</sup>		1.9 <sup>*♦</sup>		1.0 <sup>*♦</sup>		0.1 <sup>*♦</sup>	
25-34	2.8 <sup>*♦</sup>		2.9 <sup>*</sup>		1.4 <sup>*♦</sup>		1.3 <sup>*♦</sup>		1.3 <sup>*♦</sup>	
35-39	3.0 <sup>*♦</sup>		3.3 <sup>*♦</sup>		2.0 <sup>*♦</sup>		2.4 <sup>*♦</sup>		2.2 <sup>*</sup>	
40-44	2.6 <sup>*♦</sup>		2.2 <sup>*♦</sup>		2.6 <sup>*</sup>		3.1 <sup>*♦</sup>		2.0 <sup>*</sup>	
45-54	5.3 <sup>*</sup>		3.9 <sup>*</sup>		3.5		3.6		2.6	
55-64	11.2		5.5 <sup>*</sup>		3.4 <sup>*</sup>		5.5		4.3	
▶ 65-74	11.2 <sup>♦</sup>		9.2 <sup>♦</sup>		4.6 <sup>*</sup>		5.9 <sup>*</sup>		3.4 <sup>*</sup>	
75-84	6.5 <sup>*♦</sup>		7.5 <sup>*♦</sup>		4.5 <sup>*♦</sup>		12.4 <sup>*♦</sup>		8.1 <sup>*♦</sup>	
85+	...		7.4 <sup>*♦</sup>		13.9 <sup>*♦</sup>		5.6 <sup>*♦</sup>		...	
Race/ethnicity										
▶ White	4.9	6.9	3.7	5.4	2.7	3.9	3.3	5.8	2.1	3.4
Black	2.4 <sup>*♦</sup>	39.6	3.3 <sup>*♦</sup>	7.0	2.7 <sup>*♦</sup>	3.7	2.2 <sup>*♦</sup>	5.7	1.6 <sup>*♦</sup>	2.5
Hispanic	1.8 <sup>*♦</sup>	3.5	4.3 <sup>*♦</sup>	14.5	2.9 <sup>*♦</sup>	5.3	2.9 <sup>*♦</sup>	6.8	2.3 <sup>*♦</sup>	4.6
Asian	1.4 <sup>*♦</sup>	12.1	2.0 <sup>*♦</sup>	11.3	0.7 <sup>*♦</sup>	...	1.3 <sup>*♦</sup>	5.4	0.6 <sup>*♦</sup>	3.8
Other	...	...	3.7 <sup>*♦</sup>	...	5.2 <sup>*♦</sup>	16.6	...	...	...	...
Unknown	5.1 <sup>*♦</sup>	...	3.3 <sup>*♦</sup>	...	2.7 <sup>*♦</sup>	...	1.6 <sup>*♦</sup>	...	3.1 <sup>*♦</sup>	...
Missing	4.6 <sup>*</sup>	...	3.3 <sup>*</sup>	...	2.4 <sup>*♦</sup>	...	4.0 <sup>*♦</sup>	...	2.6 <sup>*♦</sup>	...
Region										
Northeast	3.0 <sup>*</sup>	5.2	2.7 <sup>*</sup>	4.1	1.5 <sup>*♦</sup>	3.1	1.0 <sup>*♦</sup>	1.6	1.4 <sup>*</sup>	4.2
South	5.0	8.2	4.5 <sup>*</sup>	7.5	3.0	3.7	3.7	6.2	2.7	4.0
▶ Midwest	4.5	6.9	3.4	4.5	2.9	5.0	3.6	5.7	2.1	3.1
West	4.2 <sup>*♦</sup>	6.4	1.1 <sup>*♦</sup>	5.8	1.8 <sup>*♦</sup>	2.8	2.1 <sup>*♦</sup>	4.6	1.3 <sup>*♦</sup>	4.7

... 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 6-20. Hospital outpatient visits by Medicare beneficiaries for female urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=700)		2003 (N=800)		2004 (N=820)		2005 (N=640)		2006 (N=720)		2007 (N=460)	
	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	3.7	3.9	4.6	4.0	4.4	3.1	3.2	3.6	3.7	2.3 <sup>♦</sup>	2.2
Under 65/65+												
< 65 Years	3.6 <sup>♦</sup>	3.6	0.6 <sup>*♦</sup>	0.6	3.2 <sup>*♦</sup>	3.2	2.6 <sup>*♦</sup>	2.6	3.7 <sup>♦</sup>	3.7	2.0 <sup>♦</sup>	2.0
▶ 65+ Years	3.5 <sup>♦</sup>	3.7	4.6	4.6	4.1	4.4	3.2 <sup>♦</sup>	3.2	3.6 <sup>♦</sup>	3.7	2.4 <sup>♦</sup>	2.2
Age												
▶ 65-69	3.0 <sup>♦</sup>		4.8 <sup>♦</sup>		3.3 <sup>♦</sup>		3.3 <sup>♦</sup>		5.2 <sup>♦</sup>		1.9 <sup>♦</sup>	
70-74	5.8 <sup>*♦</sup>		6.3 <sup>*♦</sup>		2.7 <sup>*♦</sup>		2.7 <sup>*♦</sup>		4.0 <sup>*♦</sup>		1.8 <sup>*♦</sup>	
75-79	2.3 <sup>*♦</sup>		2.3 <sup>*♦</sup>		5.7 <sup>*♦</sup>		4.7 <sup>*♦</sup>		3.1 <sup>*♦</sup>		4.5 <sup>*♦</sup>	
80-84	4.6 <sup>*♦</sup>		3.0 <sup>*♦</sup>		1.5 <sup>*♦</sup>		1.4 <sup>*♦</sup>		2.2 <sup>*♦</sup>		0.0 <sup>*♦</sup>	
85-89	2.5 <sup>*♦</sup>		7.4 <sup>*♦</sup>		10.9 <sup>*♦</sup>		3.7 <sup>*♦</sup>		2.4 <sup>*♦</sup>		2.4 <sup>*♦</sup>	
90-94	0.0 <sup>*♦</sup>		8.2 <sup>*♦</sup>		2.7 <sup>*♦</sup>		5.3 <sup>*♦</sup>		0.0 <sup>*♦</sup>		5.3 <sup>*♦</sup>	
95-97	...		...		12.3 <sup>*♦</sup>		...		12.6 <sup>*♦</sup>		12.6 <sup>*♦</sup>	
Race/ethnicity												
▶ White	3.4 <sup>♦</sup>	3.5	3.7	4.2	3.1 <sup>♦</sup>	3.5	2.4 <sup>♦</sup>	2.6	3.1 <sup>♦</sup>	3.1	1.9 <sup>♦</sup>	2.1
Black	4.0 <sup>*♦</sup>	18.4	3.9 <sup>*♦</sup>	11.0	7.7 <sup>*♦</sup>	11.6	5.8 <sup>*♦</sup>	14.9	4.0 <sup>*♦</sup>	10.1	6.1 <sup>*♦</sup>	11.4
Hispanic	5.7 <sup>*♦</sup>	46.8	5.5 <sup>*♦</sup>	42.8	5.3 <sup>*♦</sup>	...	5.2 <sup>*♦</sup>	...	5.3 <sup>*♦</sup>	32.1	...	...
Asian	...	...	6.6 <sup>*♦</sup>	28.2	0.0 <sup>*♦</sup>	0.0	...	...	...	...	...	...
Other	6.7 <sup>*♦</sup>	24.5	12.3 <sup>*♦</sup>	25.1	23.6 <sup>*♦</sup>	46.2	16.8 <sup>*♦</sup>	36.5	16.7 <sup>*♦</sup>	51.7	5.5 <sup>*♦</sup>	...
Unknown	...	...	...	...	43.2 <sup>*♦</sup>	...	47.2 <sup>*♦</sup>	...	100.5 <sup>*♦</sup>	...	...	...
Region												
▶ Northeast	3.9 <sup>♦</sup>	5.6	1.9 <sup>♦</sup>	2.9	4.4 <sup>♦</sup>	3.1	2.0 <sup>♦</sup>	1.1	3.0 <sup>♦</sup>	3.9	2.0 <sup>♦</sup>	3.0
South	3.1 <sup>*♦</sup>	3.4	4.6 <sup>*♦</sup>	5.5	2.8 <sup>*♦</sup>	2.9	2.3 <sup>*♦</sup>	2.3	2.6 <sup>*♦</sup>	2.4	1.6 <sup>*♦</sup>	2.0
Midwest	3.1 <sup>*♦</sup>	2.7	4.2 <sup>*♦</sup>	4.0	3.8 <sup>*♦</sup>	4.9	5.8 <sup>*♦</sup>	7.9	5.5 <sup>*♦</sup>	5.6	3.2 <sup>*♦</sup>	4.5
West	4.5 <sup>*♦</sup>	5.6	4.3 <sup>*♦</sup>	10.3	6.6 <sup>*♦</sup>	14.8	2.4 <sup>*♦</sup>	5.4	3.6 <sup>*♦</sup>	10.3	3.0 <sup>*♦</sup>	5.5

... 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 6-21. Hospital outpatient visits by privately insured individuals for female urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=1,248)		2003 (N=1,085)		2004 (N=1,030)		2005 (N=997)		2006 (N=901)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	27.5	36.9	21.4	28.6	20.0	28.5	18.2	24.9	17.0	27.0
Age										
18-24	12.0*		10.5*		12.2*		10.0*		5.8*	
25-34	20.9*		15.8*		11.2*		12.2*		10.7*	
35-39	27.7*		19.8*		14.5*		15.2*		12.9*	
40-44	27.8*		23.4*		22.6*		19.4*		17.0*	
45-54	31.3*		25.3*		24.2*		20.9*		22.0*	
55-64	41.7*		30.5*		31.8		26.1		27.3*	
▶ 65-74	51.9		42.6		38.9		28.0		37.0	
75-84	37.1*		27.2*♦		30.8*		31.4*		40.3*♦	
85+	...		17.4*♦		25.5*♦		43.3*♦		34.7*♦	
Race/ethnicity										
▶ White	28.9	38.4	23.5	29.0	21.0	27.4	19.3	26.3	18.4	28.4
Black	35.3*	57.0	25.1*	39.4	20.7*	34.5	14.4*	18.3	14.7*	25.5
Hispanic	24.7*	37.9	25.4*	49.5	18.2*	31.5	17.1*	21.3	11.6*	25.5
Asian	5.8*♦	12.1	12.8*♦	26.9	7.0*♦	12.9	6.4*♦	10.8	8.8*♦	5.5
Other	15.8*♦	170.6	18.4*♦	42.7	15.7*♦	27.9	7.3*♦	26.6	19.1*♦	38.4
Unknown	28.7*	...	26.5*	...	19.4*	...	14.6*	...	15.6*	...
Missing	26.9*	...	17.8*	...	19.1*	...	19.9*	...	16.7*	...
Region										
Northeast	15.1*	18.2	14.9*	14.0	10.4*	12.1	12.1*	15.1	11.3*	22.2
South	30.6	39.0	23.5	29.7	23.0	33.1	20.8	26.6	19.1	32.3
▶ Midwest	32.0	42.4	24.2	33.6	23.8	33.7	21.3	30.6	19.0	31.1
West	15.6*	30.7	13.3*	23.4	9.0*	12.6	8.7*	11.7	11.1*	15.6

... 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.

**Table 6-22. Ambulatory surgery center visits by Medicare beneficiaries for female urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=4,520)		2003 (N=4,240)		2004 (N=4,900)		2005 (N=3,780)		2006 (N=3,940)		2007 (N=3,380)	
	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	34.4	35.3	34.9	38.1	39.5	42.1	30.7	31.3	33.9	36.6	30.0	30.9
Age												
▶ 65-69	28.7		37.6		40.6		33.1		39.5		30.2	
70-74	42.4*		36.9*		47.3*		26.9*		44.1*		30.0*	
75-79	37.4*		46.2*		41.9*		38.0*		30.3*		44.6*	
80-84	38.8*		28.9*		40.9*		34.8*		37.5*		20.2*♦	
85-89	28.5*♦		39.3*		37.6*		19.5*♦		26.9*♦		24.1*♦	
90-94	11.2*♦		19.1*♦		18.8*♦		21.2*♦		21.5*♦		18.7*♦	
95-97	...		24.8*♦		12.3*♦		12.2*♦		...		25.3*♦	
98+	14.3*♦		...		...		...		...		13.7*♦	
Race/ethnicity												
▶ White	34.7	35.5	34.8	38.4	40.9	43.0	31.6	31.5	35.1	37.2	31.3	32.0
Black	29.2*♦	29.3	39.1*	35.4	36.4*	44.7	28.8*	35.8	30.8*	40.1	28.5*	34.9
Hispanic	40.1*♦	53.5	33.0*♦	44.5	32.0*♦	50.6	25.9*♦	48.6	10.6*♦	64.2	5.2*♦	...
Asian	28.3*♦	48.1	6.6*♦	11.7	6.3*♦	28.8	...	...	23.3*♦	110.0	5.6*♦	29.3
Other	53.6*♦	61.6	36.8*♦	61.3	23.6*♦	39.3	28.0*	47.7	22.3*♦	56.0	32.7*♦	50.4
Unknown	...	...	89.3*♦	...	43.2*♦	...	94.3*♦	...	100.5*	...	...	...
Region												
▶ Northeast	20.2	21.5	20.9	24.1	22.4	24.6	22.1	24.3	20.2	20.6	13.2*♦	12.2
South	41.6*	40.7	43.7*	46.4	49.6*	54.7	37.7*	38.5	45.8*	49.2	36.6*	39.2
Midwest	48.9*	51.9	42.4*	45.4	49.9*	50.4	37.6*	39.5	40.6*	44.9	40.1*	42.1
West	11.0*♦	12.2	19.2*	23.8	19.9*	20.5	14.2*	14.4	12.1*♦	13.5	19.7*	17.3

... 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 6-23. Ambulatory surgery center visits by privately insured individuals for female urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=419)		2003 (N=424)		2004 (N=412)		2005 (N=482)		2006 (N=476)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	9.2	11.6	8.4	12.0	8.0	10.6	8.8	12.2	9.0	14.1
Age										
18-24	5.4		3.8 <sup>*♦</sup>		4.9 <sup>*</sup>		2.7 <sup>*♦</sup>		3.9 <sup>*♦</sup>	
25-34	6.2		6.4 <sup>*</sup>		5.7 <sup>*</sup>		6.3 <sup>*</sup>		5.4 <sup>*</sup>	
35-39	9.0		6.7 <sup>*</sup>		6.7 <sup>*</sup>		7.0 <sup>*</sup>		5.4 <sup>*</sup>	
40-44	8.1		9.0 <sup>*</sup>		11.1		9.9 <sup>*</sup>		9.6 <sup>*</sup>	
45-54	12.0		10.0 <sup>*</sup>		8.1		10.7 <sup>*</sup>		11.9 <sup>*</sup>	
55-64	16.3 <sup>*</sup>		11.4		10.8		13.5		14.8	
▶ 65-74	7.7 <sup>♦</sup>		14.6 <sup>♦</sup>		11.8 <sup>♦</sup>		15.7		18.5 <sup>♦</sup>	
75-84	11.6 <sup>*♦</sup>		22.5 <sup>*♦</sup>		13.6 <sup>*♦</sup>		15.3 <sup>*♦</sup>		21.0 <sup>*♦</sup>	
85+	...		5.0 <sup>*♦</sup>		13.9 <sup>*♦</sup>		3.8 <sup>*♦</sup>		11.6 <sup>*♦</sup>	
Race/ethnicity										
▶ White	10.3	12.5	9.3	13.2	7.9	10.9	9.3	11.7	9.5	13.9
Black	20.1 <sup>*♦</sup>	29.8	7.1 <sup>*♦</sup>	12.4	4.2 <sup>*♦</sup>	6.7	4.7 <sup>*♦</sup>	7.9	8.1 <sup>*♦</sup>	16.3
Hispanic	9.7 <sup>*♦</sup>	16.6	10.1 <sup>*♦</sup>	15.5	11.5 <sup>*</sup>	17.6	10.5 <sup>*</sup>	16.6	9.1 <sup>*</sup>	15.5
Asian	5.8 <sup>*♦</sup>	25.6	2.0 <sup>*♦</sup>	5.7	2.1 <sup>*♦</sup>	4.2	3.2 <sup>*♦</sup>	8.9	6.3 <sup>*♦</sup>	20.7
Other	5.3 <sup>*♦</sup>	56.9	3.7 <sup>*♦</sup>	28.6	5.2 <sup>*♦</sup>	...	4.8 <sup>*♦</sup>	78.8	14.3 <sup>*♦</sup>	53.6
Unknown	6.7 <sup>*♦</sup>	...	9.4 <sup>*♦</sup>	...	9.5 <sup>*</sup>	...	7.7 <sup>*♦</sup>	...	8.1 <sup>*♦</sup>	...
Missing	8.1 <sup>*</sup>	...	7.4 <sup>*</sup>	...	8.3 <sup>*</sup>	...	8.9 <sup>*</sup>	...	7.5 <sup>*</sup>	...
Region										
Northeast	5.4 <sup>*♦</sup>	8.6	4.6 <sup>*♦</sup>	8.4	4.2 <sup>*♦</sup>	6.7	4.6 <sup>*♦</sup>	7.5	4.8 <sup>*♦</sup>	7.7
South	13.1 <sup>*</sup>	15.7	10.9 <sup>*</sup>	14.7	9.4	12.5	10.8	13.9	12.1 <sup>*</sup>	19.9
▶ Midwest	8.1	10.2	8.7	13.2	9.8	12.8	10.4	14.8	9.3	14.7
West	2.8 <sup>*♦</sup>	6.7	2.5 <sup>*♦</sup>	5.7	2.1 <sup>*♦</sup>	4.1	2.8 <sup>*♦</sup>	4.7	2.4 <sup>*♦</sup>	5.3

... 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 6-24. Nationally representative ambulatory surgery center visits for female urethral stricture listed as primary diagnosis, count, rate<sup>a</sup>**

	Count	Rate
Total	15,403	13.6
Age		
18-24	359	2.6
25-34	3,823	19.5
35-39	1,380	13.2
40-44	632	5.6
45-54	2,898	13.3
55-64	2,013	12.5
▶ 65-74	1,883	18.8
75-84	1,024	13.4*
85+	1,391	52.3*

▶ 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 6-25. Physician office visits by Medicare beneficiaries for female urethral stricture listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=63,640)		2003 (N=63,740)		2004 (N=60,760)		2005 (N=60,960)		2006 (N=56,240)		2007 (N=54,720)	
	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	319.0	354.9	312.5	351.1	294.7	331.6	295.6	338.5	279.7	321.3	274.6	322.7
Under 65/65+												
< 65 Years	158.3*	158.3	142.2*	142.2	163.9*	163.9	147.4*	147.4	128.9*	128.9	112.0*	112.0
▶ 65+ Years	351.5	354.9	348.6	351.1	323.3	331.6	329.6	338.5	315.2	321.3	315.0	322.7
Age												
▶ 65-69	273.7		269.7		242.8		251.6		218.5		203.2	
70-74	345.9*		344.5*		341.1*		322.8*		314.4*		346.6*	
75-79	407.6*		426.6*		368.8*		385.0*		362.8*		387.7*	
80-84	421.2*		410.6*		392.5*		435.4*		419.2*		397.8*	
85-89	367.0*		328.7*		359.1*		346.4*		353.6*		322.8*	
90-94	333.3*		346.7*		241.6*		243.9*		255.3*		248.6*	
95-97	240.4*♦		235.9*♦		196.2*♦		85.7*♦		327.0*♦		265.5*♦	
98+	85.8*♦		28.3*♦		...		41.2*♦		27.2*♦		82.0*♦	
Race/ethnicity												
▶ White	335.7	369.8	330.2	369.8	309.2	345.0	309.4	348.9	299.5	339.7	289.4	336.7
Black	195.3*	226.3	202.1*	214.5	191.4*	217.7	219.5*	291.5	146.0*	187.3	181.9*	233.5
Hispanic	211.8*	239.6	208.7*	272.4	213.2*	229.1	227.9*	199.8	238.5*	334.1	201.7*	263.4
Asian	155.7*♦	196.3	145.9*♦	186.0	219.6*	257.5	252.7*	314.6	186.2*	185.5	194.8*	214.9
Other	375.5*	518.9	300.5*	380.9	336.6*	421.9	195.9*	216.4	217.1*	270.3	240.1*	244.5
Unknown	905.7*♦	...	580.6*♦	...	388.8*♦	...	188.7*♦	...	351.8*♦	...	382.5*♦	...
Region												
▶ Northeast	340.3	371.3	315.7	347.9	311.1	352.5	302.8	345.1	281.8	318.6	296.2	353.9
South	361.2*	401.9	362.8*	400.8	343.8*	382.5	360.2*	408.6	327.9*	376.8	322.6*	373.7
Midwest	260.8*	286.1	250.3*	284.8	225.4*	254.5	216.9*	254.2	214.3*	249.9	208.4*	243.8
West	281.8*	338.1	285.7*	345.7	265.2*	308.3	256.4*	300.5	264.2*	306.0	236.6*	284.6

... 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 6-26. Physician office visits by privately insured individuals for female urethral stricture listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=8,151)		2003 (N=8,272)		2004 (N=8,067)		2005 (N=8,740)		2006 (N=7,216)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	179.6	323.7	163.4	309.6	156.3	297.0	159.7	287.2	135.9	267.4
Age										
18-24	51.3*		44.2*		33.1*		33.8*		26.3*	
25-34	81.7*		70.7*		63.6*		65.1*		54.1*	
35-39	110.9*		96.4*		89.6*		90.8*		88.6*	
40-44	147.8*		139.7*		139.4*		130.9*		125.7*	
45-54	214.5*		198.9*		184.9*		191.2*		173.4*	
55-64	379.6*		327.9*		309.4*		303.5*		277.1*	
▶ 65-74	493.9		464.7		467.2		412.2		397.4	
75-84	562.1*		577.3*		529.2*		562.8*		561.6*	
85+	...		493.5*		519.2*		393.4*		258.1*	
Race/ethnicity										
▶ White	212.2	359.7	187.7	336.4	157.8	299.1	161.5	288.1	142.5	275.9
Black	153.4*	229.0	124.0*	224.9	101.4*	175.3	120.8*	186.4	105.8*	196.3
Hispanic	233.6*	478.0	210.4*	448.5	183.1*	347.0	173.9*	311.3	159.2*	334.4
Asian	98.3*	191.0	127.0*	326.8	98.0*	211.3	130.6*	302.0	101.0*	209.9
Other	211.2*	467.3	99.5* <sup>†</sup>	177.8	112.9*	193.9	109.0*	256.2	98.0*	225.9
Unknown	198.4*	...	181.8*	...	178.9*	...	149.7*	...	134.3*	...
Missing	153.3*	...	131.0*	...	158.5*	...	172.2*	...	111.2*	...
Region										
Northeast	177.6*	307.5	153.7*	283.7	173.3*	313.4	171.7*	307.8	144.7*	288.0
South	210.6*	360.5	200.8*	361.6	181.4*	335.6	193.4*	352.1	163.3*	306.2
▶ Midwest	164.7	301.9	136.4	266.8	136.5	262.4	127.0	219.7	109.9	235.3
West	121.2*	250.8	117.1*	276.3	107.5*	243.1	119.5*	252.1	100.9*	208.6

... 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 6-27. Nationally representative physician office visits for female urethral stricture listed as any diagnosis, 2002-2007 (merged), 6-year count**

	<b>6-Year Count</b>
Total	892,763
Age	
40-44	34,345
45-54	177,612
55-64	160,767
65-74	327,340
75-84	163,725
85+	28,974
Race/ethnicity	
White	790,371
Black	67,273
Hispanic	35,119
Region	
Northeast	134,615
South	544,890
Midwest	156,455
West	56,803

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

**Table 6-28. Emergency room visits by privately insured individuals for female urethral stricture listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=40)		2003 (N=155)		2004 (N=92)		2005 (N=72)		2006 (N=74)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	0.9	1.2	3.1	4.3	1.8	3.4	1.3	2.6	1.4	3.3
Age										
18-24	0.5*		0.7**		...		...		...	
25-34	0.5*		1.8**		0.3*		...		0.3**	
35-39	0.9*		2.6*		0.3**		...		0.3**	
40-44	0.9*		2.0**		0.9**		0.5**		...	
45-54	1.2*		5.0		4.3*		2.0*		2.3*	
55-64	1.4*		6.4		5.3*		5.0		5.4*	
▶ 65-74	0.6*		4.3*		...		2.5*		2.1*	
75-84	2.2**		1.9**		0.9**		...		...	
85+	...		2.5**		...		...		...	
Race/ethnicity										
▶ White	0.5*	1.4	2.5	3.1	1.2	2.7	0.5*	0.9	0.3*	0.9
Black	0.8**	...	3.3**	6.0	1.2**	3.8	3.2**	10.0	1.6**	16.0
Hispanic	0.6**	...	8.2**	14.6	5.9**	16.2	3.4**	12.6	3.7**	13.0
Asian	...	...	1.0**	...	...	...	...	...	1.3**	14.6
Other	...	...	...	...	...	...	...	...	2.4**	23.3
Unknown	...	...	2.0**	...	1.5**	...	1.4**	...	1.4**	...
Missing	1.2**	...	3.4*	...	3.0**	...	3.8**	...	5.3*	...
Region										
Northeast	4.2**	5.8	3.3**	6.3	...	...	0.2*	4.1	...	...
South	0.8**	1.2	5.7*	8.3	3.9*	8.2	2.9*	5.6	3.1*	7.4
▶ Midwest	0.3*	2.0	0.5*	1.3	0.3*	1.0	0.2*	0.9	0.1*	0.5
West	...	...	0.6**	2.3	...	...	...	...	...	...

... 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 6-29. Inpatient stays by privately insured individuals for hypospadias listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=165)		2003 (N=168)		2004 (N=154)		2005 (N=173)		2006 (N=156)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	2.7	...	2.5	...	2.3	...	2.5	...	2.2	...
Age										
▶ 0-2	37.8		34.4		36.6		42.5		34.6	
3-10	2.6 <sup>*♦</sup>		2.1 <sup>*♦</sup>		2.0 <sup>*♦</sup>		1.3 <sup>*♦</sup>		2.6 <sup>*♦</sup>	
11-17	1.3 <sup>*♦</sup>		0.3 <sup>*♦</sup>		0.7 <sup>*♦</sup>		0.4 <sup>*♦</sup>		0.7 <sup>*♦</sup>	
18-24	1.5 <sup>*♦</sup>		1.0 <sup>*♦</sup>		0.5 <sup>*♦</sup>		0.3 <sup>*♦</sup>		0.4 <sup>*♦</sup>	
25-34	0.9 <sup>*♦</sup>		1.6 <sup>*♦</sup>		0.8 <sup>*♦</sup>		1.0 <sup>*♦</sup>		0.8 <sup>*♦</sup>	
35-39	0.2 <sup>*♦</sup>		1.3 <sup>*♦</sup>		0.5 <sup>*♦</sup>		0.3 <sup>*♦</sup>		0.5 <sup>*♦</sup>	
40-44	...		0.5 <sup>*♦</sup>		0.3 <sup>*♦</sup>		0.3 <sup>*♦</sup>		0.6 <sup>*♦</sup>	
45-54	0.3 <sup>*♦</sup>		0.3 <sup>*♦</sup>		0.1 <sup>*♦</sup>		0.4 <sup>*♦</sup>		...	
55-64	0.8 <sup>*♦</sup>		0.5 <sup>*♦</sup>		0.5 <sup>*♦</sup>		0.6 <sup>*♦</sup>		0.4 <sup>*♦</sup>	
65-74	...		1.1 <sup>*♦</sup>		0.5 <sup>*♦</sup>		1.3 <sup>*♦</sup>		1.2 <sup>*♦</sup>	
75-84	3.1 <sup>*♦</sup>		2.5 <sup>*♦</sup>		...		1.9 <sup>*♦</sup>		...	
Race/ethnicity										
▶ White	3.1	...	3.0	...	2.6	...	2.5	...	2.1	...
Black	6.0 <sup>*♦</sup>	...	1.6 <sup>*♦</sup>	...	1.1 <sup>*♦</sup>	...	3.6 <sup>*♦</sup>	...	1.9 <sup>*♦</sup>	...
Hispanic	1.6 <sup>*♦</sup>	...	2.6 <sup>*♦</sup>	...	2.3 <sup>*♦</sup>	...	2.3 <sup>*♦</sup>	...	2.7 <sup>*♦</sup>	...
Asian	4.1 <sup>*♦</sup>	...	1.4 <sup>*♦</sup>	...	0.5 <sup>*♦</sup>	...	1.9 <sup>*♦</sup>	...	2.8 <sup>*♦</sup>	...
Other	3.1 <sup>*♦</sup>	...	6.4 <sup>*♦</sup>	...	1.5 <sup>*♦</sup>	...	4.3 <sup>*♦</sup>	...	2.8 <sup>*♦</sup>	...
Unknown	1.3 <sup>*♦</sup>	...	3.2 <sup>*♦</sup>	...	2.1 <sup>*♦</sup>	...	1.7 <sup>*♦</sup>	...	2.0 <sup>*♦</sup>	...
Missing	2.5 <sup>*</sup>	...	1.9 <sup>*</sup>	...	1.5 <sup>*♦</sup>	...	2.2 <sup>*♦</sup>	...	2.5 <sup>*♦</sup>	...
Region										
Northeast	5.0 <sup>*</sup>	...	4.2 <sup>*</sup>	...	3.7 <sup>*♦</sup>	...	4.1 <sup>*</sup>	...	3.3 <sup>*♦</sup>	...
South	2.3	...	1.8 <sup>*</sup>	...	1.9	...	2.6	...	2.3	...
▶ Midwest	2.2	...	2.7	...	1.8	...	1.7	...	1.9	...
West	3.8 <sup>*♦</sup>	...	3.0 <sup>*♦</sup>	...	3.5 <sup>*</sup>	...	2.4 <sup>*♦</sup>	...	2.0 <sup>*♦</sup>	...

... 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 6-30. Hospital outpatient visits by privately insured individuals for hypospadias listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=1,455)		2003 (N=1,537)		2004 (N=1,380)		2005 (N=1,455)		2006 (N=1,539)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	24.2		23.1		20.4		20.6		22.1	
Age										
▶ 0-2	378.0		381.8		359.2		375.4		378.6	
3-10	34.9*		34.1*		26.3*		28.2*		31.4*	
11-17	9.4*		7.0*		5.6*		6.4*		10.2*	
18-24	1.5*♦		1.6*♦		1.3*♦		1.5*♦		2.2*♦	
25-34	1.3*♦		1.4*♦		0.9*♦		0.5*♦		1.5*♦	
35-39	1.3*♦		1.0*♦		1.5*♦		0.3*♦		0.6*♦	
40-44	0.7*♦		0.5*♦		0.6*♦		...		0.3*♦	
45-54	0.6*♦		0.7*♦		0.8*♦		0.6*♦		0.7*♦	
55-64	0.6*♦		0.5*♦		0.7*♦		1.3*♦		0.1*♦	
65-74	0.6*♦		0.5*♦		...		0.9*♦		...	
75-84	...		...		...		0.9*♦		...	
Race/ethnicity										
▶ White	26.6	...	26.2	...	21.8	...	21.6	...	22.5	...
Black	20.3*♦	...	23.1*	...	12.5*	...	12.3*	...	17.8*	...
Hispanic	22.9*	...	16.9*	...	11.5*	...	15.1*	...	17.3*	...
Asian	24.8*♦	...	21.7*	...	23.4*	...	18.3*	...	25.5*	...
Other	9.2*♦	...	25.8*♦	...	19.9*♦	...	11.4*♦	...	46.3*	...
Unknown	21.1*	...	27.6*	...	27.9*	...	19.6*	...	21.8*	...
Missing	23.0*	...	19.6*	...	18.1*	...	23.6*	...	22.6*	...
Region										
Northeast	25.1	...	25.6	...	21.0	...	22.9	...	25.2	...
South	21.1*	...	19.5*	...	17.7*	...	17.2*	...	19.3*	...
▶ Midwest	25.4	...	25.2	...	22.7	...	23.3	...	22.7	...
West	30.3*	...	27.5*	...	23.9*	...	23.7*	...	27.3*	...

... 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 6-31. Nationally representative hospital outpatient visits for hypospadias listed as primary diagnosis, 2002-2007 (merged), 6-year count**

	<b>6-Year Count</b>
Total	48,510
Age	
0-2	34,433
3-10	4,093
11-17	9,984
Race/ethnicity	
White	35,225
Black	10,546
Hispanic	2,739
Region	
Northeast	2,512
South	23,575
Midwest	18,358
West	4,065

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



**Table 6-32. Ambulatory surgery center visits by privately insured individuals for hypospadias listed as primary diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=251)		2003 (N=263)		2004 (N=265)		2005 (N=256)		2006 (N=274)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	4.2		3.9		3.9		3.6		3.9	
Age										
0-2	68.7		67.5		70.0		69.6		66.6	
3-10	4.5*		5.2*		5.1*		3.6*		5.7*	
11-17	1.2*♦		1.1*♦		1.4*♦		1.1*♦		2.2*♦	
18-24	...		0.6*♦		...		0.1*♦		0.3*♦	
25-34	0.5*♦		...		...		0.1*♦		0.1*♦	
35-39	0.5*♦		0.3*♦		0.5*♦		0.2*♦		0.2*♦	
40-44	0.2*♦		...		...		0.3*♦		0.2*♦	
45-54	0.1*♦		0.1*♦		...		0.2*♦		0.2*♦	
55-64	0.2*♦		...		...		...		...	
▶ 65-74	...		...		...		...		...	
Race/ethnicity										
▶ White	5.4	...	4.8	...	4.1	...	3.9	...	4.1	...
Black	3.8*♦	...	1.0*♦	...	2.9*♦	...	1.8*♦	...	3.9*♦	...
Hispanic	3.2*♦	...	1.3*♦	...	2.0*♦	...	1.5*♦	...	2.2*♦	...
Asian	3.1*♦	...	2.2*♦	...	3.1*♦	...	3.4*♦	...	4.6*♦	...
Other	9.2*♦	...	10.7*♦	...	6.1*♦	...	5.7*♦	...	7.0*♦	...
Unknown	4.0*♦	...	6.4*♦	...	5.6*♦	...	4.4*♦	...	4.4*♦	...
Missing	3.3*	...	3.2*	...	3.8*	...	3.6*	...	3.7*	...
Region										
Northeast	6.3*	...	8.3*♦	...	8.6*	...	7.3*	...	8.8*	...
South	2.9*	...	2.8*♦	...	2.3*	...	1.9*	...	2.5*	...
▶ Midwest	4.4	...	4.0*	...	4.5	...	3.8	...	4.0	...
West	6.1*	...	3.8*♦	...	4.0*	...	5.8*	...	4.5*	...

... 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 6-33. Nationally representative ambulatory surgery center visits for hypospadias listed as primary diagnosis, count, rate<sup>a</sup>**

	Count	Rate
Total	14,568	38.5

<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 6-34. Physician office visits by Medicare beneficiaries for hypospadias listed as any diagnosis, rate,<sup>a</sup> age-adjusted rate<sup>b</sup>**

	2002 (N=1,640)		2003 (N=1,680)		2004 (N=1,440)		2005 (N=1,700)		2006 (N=1,340)		2007 (N=1,040)	
	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	10.5	0.0	10.5	11.1	8.8	10.2	10.3	9.5	8.2	7.7	6.4	6.6
Under 65/65+												
< 65 Years	12.4**	12.4	8.9**	8.9	5.3**	5.3	13.0**	13.0	9.4**	9.4	5.9*	5.9
▶ 65+ Years	9.9	9.8	11.0	11.1	10.0	10.2	9.4	9.5	7.9	7.7	6.6	6.6
Age												
▶ 65-69	6.6*		6.4*		9.3*		7.7*		7.8*		5.2*	
70-74	7.2**		14.9**		10.4**		7.9**		7.5**		6.9**	
75-79	9.8**		14.4**		13.7**		11.5**		5.9**		12.2**	
80-84	20.5**		13.6**		10.9**		8.3**		4.8**		3.7**	
85-89	10.9**		5.3**		2.5**		17.7**		17.3**		2.4**	
90-94	8.6**		...		...		15.1**		22.5**		7.3**	
95-97	107.8**		...		...		...		...		...	
Race/ethnicity												
▶ White	11.4	10.7	9.5	9.9	9.7	10.7	10.5	9.0	8.2	8.4	6.9	7.4
Black	4.0**	21.4	10.3**	21.1	6.3**	13.5	12.5**	18.3	8.9**	20.5	5.1**	6.4
Hispanic	6.5**	...	55.9**	159.1	...	...	5.8**	33.0	12.0**	36.4	5.9**	...
Asian	...	...	...	...	...	...	7.8**	39.7	...	...	...	...
Other	14.3**	97.0	6.5**	...	...	...	...	...	...	...	...	...
Unknown	...	...	80.1**	...	...	...	...	...	165.7**	...	...	...
Region												
▶ Northeast	7.3*	12.1	10.4*	12.3	13.6*	15.3	15.5*	6.5	11.2*	9.9	5.9*	11.8
South	9.9*	9.5	7.4**	9.1	9.1**	12.3	10.0*	11.8	8.3**	9.0	7.9**	9.1
Midwest	7.7**	9.3	11.5**	10.1	6.4**	7.1	8.9**	9.8	6.5**	8.4	7.1**	9.6
West	19.7**	15.7	15.9**	18.8	6.3**	13.2	7.5**	18.5	7.6**	11.3	2.7**	5.6

... 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 6-35. Physician office visits by privately insured individuals for hypospadias listed as any diagnosis, rate<sup>a</sup>, age-adjusted rate<sup>b</sup>**

	2002 (N=2,813)		2003 (N=2,972)		2004 (N=2,802)		2005 (N=2,980)		2006 (N=2,795)	
	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate	Rate	Age-Adjusted Rate
Total	46.7		44.6		41.5		42.2		40.2	
Age										
▶ 0-2	655.7		649.7		639.4		651.0		599.6	
3-10	59.0*		59.1*		54.4*		58.6*		58.3*	
11-17	23.9*		19.1*		13.5*		18.0*		21.1*	
18-24	6.4*		9.5*		8.1*		9.1*		8.3*	
25-34	8.5*		8.4*		7.0*		7.8*		6.6*	
35-39	10.1*		10.5*		6.4*		6.8*		4.3*	
40-44	5.7*		5.4*		7.1*		6.6*		7.9*	
45-54	6.6*		7.2*		5.1*		5.4*		5.3*	
55-64	7.4*		6.4*		7.7*		9.1*		6.6*	
65-74	7.1*♦		5.4*♦		5.6*♦		6.9*♦		7.4*♦	
75-84	9.3*♦		2.5*♦		9.5*♦		19.8*♦		1.8*♦	
85+	...		9.1*♦		21.6*♦		...		...	
Race/ethnicity										
▶ White	52.9	...	49.0	...	43.2	...	43.5	...	41.4	...
Black	26.4*	...	28.8*	...	32.3*	...	23.9*	...	29.0*	...
Hispanic	45.5*	...	41.0*	...	32.7*	...	31.6*	...	28.5*	...
Asian	61.0*	...	43.4*	...	44.1*	...	38.0*	...	39.9*	...
Other	61.1*♦	...	88.0*	...	48.9*	...	37.1*♦	...	53.3*	...
Unknown	51.5*	...	62.2*	...	50.8*	...	45.1*	...	46.4*	...
Missing	42.2*	...	38.0*	...	36.9*	...	48.0*	...	41.9*	...
Region										
Northeast	68.3*	...	59.4*	...	54.9*	...	57.0*	...	48.9*	...
South	41.0*	...	37.4*	...	35.4*	...	36.1*	...	36.0*	...
▶ Midwest	45.4	...	48.2	...	45.9	...	43.5	...	41.8	...
West	51.7*	...	46.8*	...	39.6*	...	46.9*	...	43.5*	...

... 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 6-36. Nationally representative physician office visits for hypospadias listed as any diagnosis, 2002-2007 (merged), 6-year count**

	<b>6-Year Count</b>
Total	603,226
Age	
0-2	476,082
3-10	114,083
11-17	13,061
Race/ethnicity	
White	519,249
Black	6,838
Hispanic	77,139
Region	
Northeast	165,867
South	211,721
Midwest	63,306
West	162,332

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

**Table 6-37. Nationally representative emergency room visits for hypospadias listed as primary diagnosis, 2002-2007 (merged), 6-year count**

	<b>6-Year Count</b>
Total	3,392

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