CHAPTER 13 Pediatric Urologic Diseases

Urinary Incontinence Hypospadias Ureterocele Ureteropelvic Junction Obstruction Posterior Urethral Valves Vesicoureteral Reflux Disease Upper Urinary Tract Stones Lower Urinary Tract Stones Testicular Cancer Urinary Tract Infection Undescended Testes

Pediatric Incontinence

Individuals under 18 with one of the following ICD-9 diagnosis codes, but not a coexisting 952.XX or 953.XX code:

individuais und	ter 18 with one of the following ICD-9 diagnosis co
307.6	Enuresis
596.51	Hypertonicity of bladder
596.52	Low bladder compliance
596.59	Other functional disorder of bladder
596.8	Other specified disorders of bladder
599.8	Other specified disorders of urethra and urinary tract
599.81	Urethral hypermobility
599.82	Intrinsic (urethral) sphincter deficiency (ISD)
599.83	Urethral instability
599.84	Other specified disorders of urethra
625.6	Stress incontinence, female
788.3	Urinary incontinence
788.30	Urinary incontinence unspecified
788.31	Urge incontinence
788.32	Stress incontinence, male
788.33	Mixed incontinence, male and female
788.34	Incontinence without sensory awareness
788.36	Nocturnal enuresis
788.37	Continuous leakage
788.39	Other urinary incontinence
Pediatric Urina	ry Tract Infection

Individuals under 18 with one of the following ICD-9 diagnosis codes:

Cystitis	
112.2 Candidiasis of other urogenital sites	
595.0 Acute cystitis	
595.2 Other chronic cystitis	
595.3 Trigonitis	
595.89 Other specified types of cystitis	
595.9 Cystitis, unspecified	
Pyelonephritis	
590.0 Chronic pyelonephritis	
590.00 Chronic pyelonephritis without lesion of renal medullary necrosis	
590.01 Chronic pyelonephritis with lesion of renal medullary necrosis	
590.1 Acute pyelonephritis	
590.10 Acute pyelonephritis without lesion of renal medullary necrosis	
590.11 Acute pyelonephritis with lesion of renal medullary necrosis	
590.2 Renal and perinephric abscess	
590.3 Pyeloureteritis cystica	
590.8 Other pyelonephritis or pyonephrosis, not specified as acute or chronic	
590.9 Infection of kidney, unspecified	
593.89 Other specified disorders of kidney and ureter	
Orchitis	
016.5 Tuberculosis of other male genital organs	
072.0 Mumps orchitis	
603.1 Infected hydrocele	
604.0 Orchitis, epididymitis and epididymo-orchitis with abscess	
604.9 Other orchitis, epididymitis, and epididymo-orchitis, without mention of ab	scess

604.90	Orchitis and epididymitis, unspecified
604.91	Orchitis and epididymitis in diseases classified elsewhere
604.99	Other orchitis, epididymitis, and epididymo-orchitis, without abscess
Other	
599.0	Urinary tract infection site not specified
760.1	Maternal renal and urinary tract diseases affecting fetus or newborn
771.82	Urinary tract infection of newborn
diatric Hy	pospadias
les under	18 with one or more of the following:
ICD-9 dia	agnosis codes
752.6	Hypospadias and epispadias and other penile anomalies
752.61	Hypospadias
ICD-9 pro	pcedure codes
58.45	Repair of hypospadias and epispadias
CPT prod	cedure 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, prepucia 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 o 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/o island flap
54340	Repair of hypospadias complications (ie, fistula, stricture, diverticula); by closure, incision, or excision, simple
54344	Repair of hypospadias complications (ie, fistula, stricture, diverticula); requiring mobilization of skin flaps and urethroplasty with flap or patch graft
54348	Repair of hypospadias complications (ie, 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
diatric Tes	sticular Cancer
	18 with one or more of the following:
	agnosis codes
186	Malignant neoplasm of testis
186.0	Malignant neoplasm of undescended testis
186.9	Malignant neoplasm of other and unspecified testis
	cedure codes
38564	Limited lymphadenectomy for staging (separate procedure); retroperitoneal (aortic and/or splenic)
20700	

38780 Retroperitoneal transabdominal lymphadenectomy, extensive, including pelvic, aortic, and renal nodes (separate procedure)

54530	Orchiectomy, radical, for tumor; inguinal approach
54535	Orchiectomy, radical, for tumor; with abdominal exploration
Pediatric Un	descended Testes
Males under	18 with one or more of the following:
ICD-9 dia	agnosis codes
752.5	Undescended and retractile testis
752.51	Undescended testis
752.52	Retractile testis
	ocedure codes
62.5 ^a	Orchiopexy
63.53 ^a	Transplantation of spermatic cord
CPT pro	cedure codes
54550	Exploration for undescended testis (inguinal or scrotal area)
54560	Exploration for undescended testis with abdominal exploration
54640	Orchiopexy, inguinal approach, with or without hernia repair
54650	Orchiopexy, abdominal approach, for intra-abdominal testis (eg, Fowler-Stephens)
54690	Laparoscopy, surgical; orchiectomy
54692	Laparoscopy, surgical; orchiopexy for intra-abdominal testis
54699	Unlisted laparoscopy procedure, testis
Pediatric Ve	sicoureteral Reflux
Individuals u	Inder 18 with one or more of the following:
ICD-9 dia	agnosis 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 pro	cedure codes
50660	Ureterectomy, total, ectopic ureter, combination abdominal, vaginal and/or perineal approach
50780	Ureteroneocystostomy; anastomosis of single ureter to bladder
50781	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	Laparoscopy, surgical; ureteroneocystostomy with cystoscopy and ureteral stent placement
50948	Laparoscopy, surgical; ureteroneocystostomy without cystoscopy and ureteral stent placement
52327	Cystourethroscopy (including ureteral catheterization); with subureteric injection of implant material
Pediatric Po	sterior Urethral Valves
Males under	18 with one or more of the following:
ICD-9 dia	agnosis codes
753.6	Congenital atresia and stenosis of urethra and bladder neck
CPT pro	cedure 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

Pediatric Ureterocele

Individuals under 18 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

Pediatric Ureteropelvic Junction Obstruction

Individuals under 18 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

CPT procedure codes

- 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, calycoplasty)
- 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)

Pediatric Upper Tract Kidney Stones

Individuals under 18 with one of the following ICD-9 diagnosis codes:

- 270.0 Disturbances of amino-acid transport
- 274.11 Uric acid nephrolithiasis
- 592.0 Calculus of kidney
- 592.1 Calculus of ureter
- 592.9 Urinary calculus, unspecified

Individuals under 18 with the following ICD-9 diagnosis code and any one of the following procedure codes, or the procedure code alone:

- 271.8 Other specified disorders of carbohydrate transport and metabolism
- and

ICD-9 procedure codes

- 55.03 Percutaneous nephrostomy without fragmentation
- 55.04 Percutaneous nephrostomy with fragmentation
- 55.92 Percutaneous aspiration of kidney (pelvis)
- 56.0 Transurethral removal of obstruction from ureter and renal pelvis
- 56.2 Ureterotomy
- 59.8 Ureteral catheterization
- 59.95 Ultrasonic fragmentation of urinary stones
- 98.51 Extracorporeal shockwave lithotripsy (ESWL) of the kidney, ureter and/or bladder

CPT pro	cedure codes
50060	Nephrolithotomy; removal of calculus
50065	Nephrolithotomy; secondary surgical operation for calculus
50070	Nephrolithotomy; complicated by congenital kidney abnormality
50075	Nephrolithotomy; removal of large staghorn calculus filling renal pelvis and calyces (including anatrophic pyelolithotomy)
50080	Percutaneous nephrostolithotomy or pyelostolithotomy, with or without dilation, endoscopy, lithotripsy, stenting, or basket extraction; up to 2 cm
50081	Percutaneous nephrostolithotomy or pyelostolithotomy, with or without dilation, endoscopy, lithotripsy, stenting, or basket extraction; over 2 cm
50130	Pyelotomy; with removal of calculus (pyelolithotomy, pelviolithotomy, including coagulum pyelolithotomy)
50135	Pyelotomy; complicated (eg, secondary operation, congenital kidney abnormality)
50561	Renal endoscopy through established nephrostomy or pyelostomy, with or without irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with removal of foreign body or calculus
50580	Renal endoscopy through nephrotomy or pyelotomy, with or without irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with removal of foreign body or calculus
50590	Lithotripsy, extracorporeal shock wave
50610	Ureterolithotomy, upper one-third of ureter
50620	Ureterolithotomy, middle one-third of ureter
50630	Ureterolithotomy, lower one-third of ureter
50945	Laparoscopy, surgical; ureterolithotomy
50961	Ureteral endoscopy through established ureterostomy, with or without irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with removal of foreign body or calculus
50980	Ureteral endoscopy through ureterotomy, with or without irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with removal of foreign body or calculus
51060	Transvesical ureterolithotomy
51065	Cystotomy, with calculus basket extraction and/or ultrasonic or electrohydraulic fragmentation of ureteral calculus
52320	Cystourethroscopy (including ureteral catheterization); with removal of ureteral calculus
52325	Cystourethroscopy (including ureteral catheterization); with fragmentation of ureteral calculus (eg, ultrasonic or electro-hydraulic technique)
52330	Cystourethroscopy (including ureteral catheterization); with manipulation, without removal of ureteral calculus
52351	Cystourethroscopy, with ureteroscopy and/or pyeloscopy; diagnostic
52352	Cystourethroscopy, with ureteroscopy and/or pyeloscopy; with removal or manipulation of calculus (ureteral catheterization is included)
52353	Cystourethroscopy, with ureteroscopy and/or pyeloscopy; with lithotripsy (ureteral catheterization is included)
Pediatric Lov	ver Tract Kidney Stones
ndividuals ı	inder 18 with one of the following ICD-9 diagnosis codes:
594.0	Calculus in diverticulum of bladder
594.1	Other calculus in bladder
594.2	Calculus in urethra

- 594.8 Other lower urinary tract calculus
- 594.9 Calculus of lower urinary tract, unspecified

^aMust occur with diagnosis of 550.XX or 752.XX.

	200	3 (N=231)	200	6 (N=184)
	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate
Total	0.3	0.3	0.2	0.2
Age				
0-2	t		t	
3-10	0.3		0.3	
▶ 11-17	0.3		0.3	
Race/ethnicity				
► White	0.2	0.2	0.2	0.2
Black	t	0.2	t	0.3
Hispanic	0.3*	0.3	t	0.1
Asian	t	0.2		
Other	t	0.5	t	0.5
Missing				
Region				
Northeast	t	0.2	t	0.2
South	0.2	0.2	0.2	0.2
 Midwest 	0.3	0.3	0.3	0.3
West	0.3*	0.3	t	0.1
Missing				
Gender				
Female	0.3	0.3	0.2	0.2
► Male	0.3	0.3	0.3	0.3

Table 13-2. Nationally representative inpatient stays for pediatric^a urinary incontinence listed as primary diagnosis, rate,^b age-adjusted rate^c

... Data unavailable.

► Denotes reference group.

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

+ Figure does not meet standard for reliability or precision.

^aIndividuals under 18.

^bRate per 100,000 individuals in the same demographic stratum is based on 2003 & 2006 population estimates from Current Population Survey (CPS). ^cRate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Healthcare Cost and Utilization Project (HCUP), Kids' Inpatient Database, 2003 & 2006.

Table 13-3. Nationally representative inpatient stays for pediatric^a hypospadias listed as primary diagnosis, rate,^b age-adjusted rate^c

	2003 (N=1,073)		200	6 (N=875)
	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate
Total	2.9	3.0	2.3	2.3
Age				
0-2	12.9		9.8	
3-10	1.4		1.0	
▶ 11-17	0.6		0.6	
Race/ethnicity				
► White	2.0	2.1	1.5	1.4
Black	1.9*	2.0	1.9*	1.9
Hispanic	2.4*	2.5	2.0*	2.0
Asian	3.4*	3.8	2.9*	2.8
Other	6.1*	6.2	5.3*	5.2
Missing				
Region				
Northeast	3.9	4.3	3.4	3.5
South	1.3	1.3	1.0	1.0
 Midwest 	1.0	1.0	0.9	0.9
West	3.2*	3.2	2.6*	2.6
Missing				

... Data unavailable.

► Denotes reference group.

*Statistically different from reference group (p<.05). ^aIndividuals under 18.

^bRate per 100,000 individuals in the same demographic stratum is based on 2003 & 2006 population estimates from Current Population Survey (CPS). ^cRate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

Table 13-4. Nationally representative inpatient stays for pediatric^a ureterocele listed as primary diagnosis, rate,^b age-adjusted rate^c

	2003 (N=645)		2006 (N=597)		
	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	
Total	0.9	0.9	0.8	0.8	
Age					
0-2	3.6		3.3		
3-10	0.4		0.4		
▶ 11-17	0.3		0.2		
Race/ethnicity					
► White	0.8	0.8	0.6	0.6	
Black	t	0.2	0.4*	0.4	
Hispanic	0.7*	0.8	0.8*	0.8	
Asian	t	1.0	t	0.4	
Other	t	1.5	1.8*	1.8	
Missing					
Region					
Northeast	0.7	0.7	0.8	0.8	
South	0.7	0.7	0.6	0.6	
 Midwest 	0.7	0.7	0.5	0.5	
West	0.7*	0.7	0.5*	0.5	
Missing					
Gender					
Female	1.2	1.2	1.0	1.0	
► Male	0.6	0.6	0.6	0.6	

... Data unavailable.

► Denotes reference group.

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

+ Figure does not meet standard for reliability or precision. ^aIndividuals under 18.

^bRate per 100,000 individuals in the same demographic stratum is based on 2003 & 2006 population estimates from Current Population Survey (CPS). ^cRate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Healthcare Cost and Utilization Project (HCUP), Kids' Inpatient Database, 2003 & 2006.

Table 13-5. Nationally representative inpatient stays for pediatric^a ureteropelvic junction obstruction listed as primary diagnosis, rate,^b age-adjusted rate^c

	2003 (N=1,746)		2006 (N=1,306)	
	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate
Total	2.4	2.4	1.8	1.8
Age				
0-2	9.0		6.8	
3-10	1.4		0.9	
▶ 11-17	0.9		0.6	
Race/ethnicity				
► White	1.9	1.9	1.6	1.6
Black	1.0*	1.0	0.8*	0.8
Hispanic	1.7*	1.8	1.1*	1.1
Asian	1.5*	1.6	t	0.9
Other	3.8*	3.8	2.8*	2.8
Missing				
Region				
Northeast	2.2	2.2	1.6	1.6
South	1.6	1.6	1.2	1.2
 Midwest 	2.3	2.4	1.5	1.5
West	1.8*	1.9	1.5*	1.5
Missing				
Gender				
Female	1.4	1.5	1.0	1.0
► Male	3.3	3.4	2.5	2.5

... Data unavailable.

► Denotes reference group.

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

+ Figure does not meet standard for reliability or precision.

^aIndividuals under 18.

^bRate per 100,000 individuals in the same demographic stratum is based on 2003 & 2006 population estimates from Current Population Survey (CPS). ^cRate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

	2003 (N=248)		2006 (N=254)	
	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate
Total	0.3	0.3	0.3	0.3
Age				
0-2	1.7		1.5	
3-10	0.1		0.1	
▶ 11-17	t		t	
Race/ethnicity				
► White	0.2	0.2	0.2	0.2
Black	0.5*	0.5	0.3*	0.3
Hispanic	0.2*	0.4	0.2*	0.2
Asian	t	0.9	t	0.3
Other	t	1.3	t	1.2
Missing				
Region				
Northeast	0.3	0.5	0.3	0.3
South	0.3	0.3	0.2	0.2
 Midwest 	0.2	0.3	0.2	0.4
West	0.2*	0.2	0.3*	0.3
Missing				

Table 13-6. Nationally representative inpatient stays for pediatric^a posterior urethral valves listed as primary diagnosis, rate,^b age-adjusted rate^c

... Data unavailable.

► Denotes reference group.

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

+ Figure does not meet standard for reliability or precision.

^aIndividuals under 18.

^bRate per 100,000 individuals in the same demographic stratum is based on 2003 & 2006 population estimates from Current Population Survey (CPS). ^cRate per 100,000 age-adjusted to the 2005 US standard population (US

Population Estimates from Current Population Survey).

SOURCE: Healthcare Cost and Utilization Project (HCUP), Kids' Inpatient Database, 2003 & 2006. Table 13-7. Nationally representative inpatient stays for pediatric^a vesicoureteral reflux listed as primary diagnosis, rate,^b age-adjusted rate^c

diagnosis, rate, "ag	e-aujus	leu rale		
	2003 (N=7,458)		2006	(N=5,908)
	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate
Total	10.2	10.2	8.0	8.0
Age				
0-2	22.0*		18.8*	
3-10	13.5		10.1	
▶ 11-17	2.0		1.3	
Race/ethnicity				
► White	8.6	8.6	7.6	7.6
Black	1.4*	1.4	1.1*	1.1
Hispanic	6.5*	6.7	4.4*	4.4
Asian	2.6*	2.7	3.5*	3.5
Other	12.4*	12.3	12.3*	12.4
Missing				
Region				
Northeast	8.8	8.7	7.8	7.8
South	7.2	7.3	5.8	5.7
 Midwest 	7.6	7.5	6.4	6.4
West	8.1*	8.1	5.8*	5.8
Missing				
Gender				
Female	15.2	15.2	11.7	11.6
► Male	5.4	5.5	4.5	4.5

... Data unavailable.

► Denotes reference group.

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

^aIndividuals under 18.

^bRate per 100,000 individuals in the same demographic stratum is based on 2003 & 2006 population estimates from Current Population Survey (CPS). ^cRate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

Table 13-8. Nationally representative inpatient stays for
pediatric ^a upper urinary tract stones listed as primary
diagnosis, rate, ^b age-adjusted rate ^c

2003 (N=6,503) 2006 (N=6,772) Age-Age-Adjusted Rate Adjusted Rate Rate Rate Total 8.9 8.9 9.2 9.2 Age 0-2 11.6 12.4 3-10 5.1 5.7 ▶ 11-17 11.9 11.5 Race/ethnicity ► White 7.3 8.2 8.2 7.3 Black 2.8* 2.9 3.1* 3.1 Hispanic 5.4* 5.1* 5.5 5.1 Asian 2.5* 3.1* 2.5 3.1 Other 11.3* 11.3 10.0* 9.9 Unknown t t Missing Region Northeast 7.0 7.1 8.0 8.0 South 7.1 7.1 7.1 7.1 Midwest 8.2 8.1 8.3 8.3 West 5.4* 5.6* 5.7 5.4 Missing Gender Female 9.6 9.6 10.0 10.0 ► Male 8.2 8.2 8.3 8.3

... Data unavailable.

► Denotes reference group.

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

+ Figure does not meet standard for reliability or precision.

^aIndividuals under 18.

^bRate per 100,000 individuals in the same demographic stratum is based on 2003 & 2006 population estimates from Current Population Survey (CPS). ^cRate per 100,000 age-adjusted to the 2005 US standard population (US

Population Estimates from Current Population Survey).

SOURCE: Healthcare Cost and Utilization Project (HCUP), Kids' Inpatient Database, 2003 & 2006.

Table 13-9. Nationally representative inpatient stays for pediatric^a lower urinary tract stones listed as primary diagnosis, rate,^b age-adjusted rate^c

alagnosis, rate,		3 (N=145)	2006	6 (N=150)
	200		2000	
	Rate	Age-	Rate	Age-
	Nale	Adjusted Rate	Nale	Adjusted Rate
Total	0.2	0.2	0.2	0.2
Age				
0-2	t		t	
3-10	0.2		0.2	
▶ 11-17	0.3		0.3	
Race/ethnicity				
► White	0.2	0.2	0.2	0.2
Black	t	0.1	t	0.1
Hispanic	0.2*	0.3	t	0.2
Asian	t	0.3	t	0.1
Other	t	0.2	t	0.5
Missing			†	
Region				
Northeast	t	0.2	0.3	0.3
South	0.1	0.2	0.2	0.2
 Midwest 	t	0.2	†	0.1
West	0.2*	0.2	0.2*	0.2
Missing	t			
Gender				
Female	0.2	0.2	0.2	0.2
► Male	0.2	0.2	0.2	0.2

... Data unavailable.

► Denotes reference group.

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

+ Figure does not meet standard for reliability or precision.

^aIndividuals under 18.

^bRate per 100,000 individuals in the same demographic stratum is based on 2003 & 2006 population estimates from Current Population Survey (CPS). ^cRate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

Table 13-10. Nationally representative inpatient stays for
pediatric ^a testicular cancer listed as primary diagnosis,
rate, ^b age-adjusted rate ^c

	200	3 (N=159)	2006 (N=122		
	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	
Total	0.4	0.4	0.3	0.3	
Age					
0-2	t		t		
3-10	t		t		
▶ 11-17	0.9		0.7		
Race/ethnicity					
► White	0.3	0.6	0.2	0.2	
Black	t	0.3	t	0.1	
Hispanic	0.5*	0.5	0.5*	0.8	
Asian	t	0.5	t	0.4	
Other	t	0.5	t	1.6	
Missing			t		
Region					
Northeast	t	0.4	t	0.3	
South	0.4	0.4	0.3	0.3	
 Midwest 	t	0.3	t	0.3	
West	0.4*	0.4	0.3*	0.4	
Missing			t		

... Data unavailable.

► Denotes reference group.

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

+ Figure does not meet standard for reliability or precision.

^aIndividuals under 18.

^bRate per 100,000 individuals in the same demographic stratum is based on 2003 & 2006 population estimates from Current Population Survey (CPS). ^cRate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: Healthcare Cost and Utilization Project (HCUP), Kids' Inpatient Database, 2003 & 2006.

Table 13-11. Nationally representative inpatient stays for pediatric^a urinary tract infection listed as primary diagnosis, rate,^b age-adjusted rate^c

	2003	(N=40,984)	2006	(N=38,372)
	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate
Total	55.9	57.4	51.9	51.7
Age				
0-2	222.9*		201.6*	
3-10	26.0		23.1	
▶ 11-17	23.3		21.0	
Race/ethnicity				
► White	31.0	31.4	30.8	30.6
Black	33.2*	34.2	31.7*	31.9
Hispanic	81.1*	84.9	70.2*	70.3
Asian	36.5*	41.0	33.7*	34.1
Other	94.2*	94.6	74.6*	73.2
Unknown	t		t	
Missing				
Region				
Northeast	47.3	48.5	48.8	48.7
South	54.1	54.7	47.0	46.4
 Midwest 	37.4	38.4	35.6	35.7
West	38.1*	39.7	34.6*	34.8
Missing				
Gender				
Female	75.1*	76.4	69.8*	69.6
► Male	37.5	39.1	34.8	34.6

... Data unavailable.

► Denotes reference group.

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

+ Figure does not meet standard for reliability or precision.

^aIndividuals under 18.

^bRate per 100,000 individuals in the same demographic stratum is based on 2003 & 2006 population estimates from Current Population Survey (CPS). ^cRate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

 Table 13-12. Nationally representative inpatient stays for

 pediatric^a orchitis, count, rate^b

Year	Count	Rate
2003	567	1.5
2006	556	1.5

^aIndividuals under 18.

-

^bRate 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 male civilian non-institutionalized population under age 18.

SOURCE: Healthcare Cost and Utilization Project (HCUP), Kids' Inpatient Database, 2003 & 2006.

Table 13-13. Nationally representative inpatient stays for pediatric^a undescended testes listed as primary diagnosis, rate,^b age-adjusted rate^c

diagnosis, rate," a	ge-adjus	sted rate		
	2003	(N=1,158)	2006	(N=1,042)
	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate
Total	3.1	3.2	2.8	2.7
Age				
0-2	12.9		12.0	
3-10	1.6		1.1	
▶ 11-17	0.9		0.7	
Race/ethnicity				
► White	2.0	2.0	1.9	1.9
Black	2.4*	2.5	2.5*	2.6
Hispanic	2.4*	2.5	2.1*	2.1
Asian	2.7*	2.9	2.8*	2.8
Other	6.3*	6.5	4.2*	4.1
Missing				
Region				
Northeast	3.3	3.5	2.9	2.9
South	1.6	1.6	1.6	1.6
 Midwest 	2.6	2.7	2.2	2.2
West	2.9*	3.0	2.6*	2.6
Missing				

... Data unavailable.

► Denotes reference group.

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

^aIndividuals under 18.

^bRate per 100,000 individuals in the same demographic stratum is based on 2003 & 2006 population estimates from Current Population Survey (CPS). ^cRate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey). SOURCE: Healthcare Cost and Utilization Project (HCUP), Kids' Inpatient

Database, 2003 & 2006.

	2002	? (N=133)	2003	6 (N=136)	2004	l (N=125)	2005	i (N=160)	2006	5 (N=136)
	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate
Total	7.7	7.7	7.2	7.4	6.7	6.8	8.6	8.7	7.3	7.3
Age										
▶ 0-2	28.3		23.5		22.6		31.9		27.1	
3-10	3.5**		3.0**		2.9**		2.7**		2.9**	
11-17	3.7*•		5.5*		4.5*		5.6*		4.0 ^{*◆}	
Race/ethnicity										
► White	6.4	6.6	8.1	8.2	7.1	7.2	9.7	9.7	8.1	8.1
Black	8.4**	14.7	12.1**	13.1	3.4**	6.1	8.9**	17.4	12.3**	22.7
Hispanic	5.0*•	3.9	9.4 ^{*•}	9.7	8.4*•	8.7	7.6*•	7.8	5.0*•	5.1
Asian	3.6**	16.9	7.6**	13.1			14.5**	12.9	5.2 ^{*•}	9.0
Other	26.4**	25.5			9.2**	17.7			4.4 ^{*◆}	24.5
Unknown	13.8**		5.7**		7.7**		6.7 ^{*•}		6.7**	
Missing	8.1*		5.7*		5.9**		4.7 ^{*◆}		5.4 ^{*•}	
Region										
Northeast	18.2*	17.7	10.2 [•]	10.2	11.3**	11.4	11.9*	12.2	9.8 [◆]	9.8
South	5.7	6.0	7.0	7.3	5.6	5.8	8.0	8.2	6.7	6.8
► Midwest	6.3	6.3	6.9	6.9	5.7	5.7	8.5	8.5	6.4	6.4
West	9.2 ^{*•}	8.7	6.5**	6.2	9.3*•	9.2	8.2**	8.0	9.5**	9.5

Table 13-14. Inpatient stays by privately insured individuals for undescended testes listed as primary diagnosis, rate^a, ageadjusted rate^b

... 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.

^aRate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.

^bRate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

	2002	2002 (N=1,823)		N=1,746)	2004	(N=1,617)	2005	2005 (N=1,758)		(N=1,596)
	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate
Total	105.0	103.9	93.0	93.1	86.8	86.8	94.3	94.1	86.0	85.1
Age										
▶ 0-2	299.5		270.6		238.5		264.0		229.7	
3-10	88.8*		75.9*		76.2*		82.6*		82.3*	
11-17	40.7*		39.3*		36.5*		37.5*		29.6*	
Race/ethnicity										
► White	117.5	117.4	100.6	100.7	92.0	91.4	98.3	97.4	86.5	85.3
Black	98.6*	110.8	75.9*	81.9	56.4*	58.0	70.2*	73.5	63.0*	65.2
Hispanic	99.2*	102.2	122.6*	128.4	73.1*	75.4	93.0*	97.3	86.8*	89.2
Asian	124.5*	114.8	96.8*	90.4	86.9*	78.9	97.8*	89.4	64.7*	58.9
Other	167.0 ^{*•}	148.6	126.3*•	119.7	115.4*•	111.6	99.1 ^{*•}	96.3	93.4 ^{*•}	92.1
Unknown	112.0*		9 5.1 [*]		88.8*		81.6*		104.0*	
Missing	95.1*		79.5*		81.1*		89.9*		85.3*	
Region										
Northeast	105.6*	101.4	89.9*	88.1	85.7	84.1	97.4	95.7	95.1	93.8
South	84.4*	86.2	84.2*	86.8	74.9*	77.0	82.4*	84.2	75.5*	76.3
► Midwest	124.8	123.5	105.5	104.6	97.2	96.1	109.1	108.4	101.9	100.6
West	114.0*	107.1	89.4*	86.3	99.7*	96.3	92.0*	88.5	75.6*	72.5

Table 13-15. Hospital outpatient visits by privately insured individuals for undescended testes listed as primary diagnosis, rate,^a age-adjusted rate^b

... 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.

^aRate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.

^bRate 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 13-16. Nationally representative hospital outpatient visits for undescended testes listed as primary diagnosis, 2002-2007 (merged), 6-year count
6-Year Count

	6-Year Count	
Total	132,730	
Age		
0-2	68,330	
3-10	63,399	
11-17	1,001	
Race/ethnicity		
White	91,809	
Black	30,136	
Hispanic	8,793	
Other	1,992	
Region		
Northeast	25,199	
South	94,926	
Midwest	5,784	
West	6,821	

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

	2002	? (N=245)	2003	s (N=272)	2004	l (N=313)	2005	2005 (N=313)		i (N=290)
	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate
Total	14.1	14.0	14.5	14.4	16.8	16.8	16.8	16.7	15.6	15.5
Age										
▶ 0-2	43.4		43.3		49.9		48.4		44.0	
3-10	11.7*		14.1*		13.5*		15.3*		14.4*	
11-17	4.6*		3.0*•		7.0*		5.4*		5.1*	
Race/ethnicity										
► White	17.6	17.8	16.9	16.7	17.9	17.8	18.1	17.9	15.6	15.4
Black			9.1**	16.3	11.3*•	11.6	10.2**	11.1	15.1**	15.7
Hispanic	6.3 ^{*•}	6.3	9.4 ^{*◆}	9.7	15.6**	16.3	12.2**	12.8	8.4*•	8.6
Asian	14.2 ^{*•}	20.1	17.8**	25.2	22.7*•	20.9	16.3**	14.9	14.0**	19.5
Other	61.5**	89.9	25.3**	36.9	13.9*•	17.6	4.5 ^{*◆}	9.4	17.8**	17.4
Unknown	24.6**		15.8**		15.4*•		16.6**		19.1**	
Missing	11.8*		12.5*		14.7*		17.4*		19.0*	
Region										
Northeast	20.5*	20.0	26.7*	25.9	23.2	22.6	27.3*	26.7	26.7*	26.4
South	8.6*	8.8	7.9*	8.1	10.8*	11.2	12.2*	12.4	10.2*	10.3
► Midwest	13.4	13.2	16.9	16.6	20.3	20.1	17.7	17.6	19.5	19.3
West	29.1*	27.3	18.6*	17.8	22.1*	21.1	20.2*	19.3	15.0*	14.4

Table 13-17. Ambulatory surgery center visits by privately insured individuals for undescended testes listed as primary
diagnosis, rate, ^a age-adjusted rate ^b

... 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.

^aRate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.

^bRate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

	2002 (N=4,593)		2003 (N=4,616)		2004 (N=4,756)		2005 (N=4,878)		2006 (N=4,692)	
	Rate	Age- Adjusted Rate								
Total	264.5	260.8	245.8	244.7	255.2	254.9	261.6	260.4	252.7	250.0
Age										
▶ 0-2	705.8		691.2		732.9		709.7		686.5	
3-10	259.0*		234.9*		233.2*		259.0*		248.9*	
11-17	82.8*		74.5*		84.4*		80.2*		74.6*	
Race/ethnicity	/									
► White	294.2	292.8	266.3	264.4	254.3	252.0	264.3	261.1	250.6	246.8
Black	186.7*	207.2	160.8*	172.3	178.2*	188.7	200.5*	213.3	169.8*	175.7
Hispanic	287.7*	293.9	246.9*	257.8	275.2*	285.3	257.0*	268.9	239.6*	246.3
Asian	270.3*	248.2	374.3*	342.5	298.6*	266.6	286.2*	258.7	265.6*	236.8
Other	457.1*	433.2	341.1*	323.3	332.4*	318.9	297.2*	283.8	386.9*	376.0
Unknown	314.6*		281.9*		301.4*		254.7*		306.9*	
Missing	239.4*		215.8*		239.4*		265.9*		254.5*	
Region										
Northeast	387.6*	367.7	300.4*	289.1	334.1*	325.9	335.4*	328.1	349.5*	344.7
South	221.9*	225.4	211.0*	216.8	216.7*	223.5	229.6*	234.4	211.4*	213.5
 Midwest 	275.2	270.9	272.0	268.5	271.2	267.5	278.1	275.5	281.1	277.0
West	268.1*	253.5	239.3*	229.0	274.4*	265.0	260.2*	249.6	243.3	232.0

Table 13-18. Physician office visits by privately insured individuals for undescended testes listed as any diagnosis, rate, age-adjusted rate^b

... Data unavailable.

► Denotes reference group.

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

^aRate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.

^bRate 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 13-19. Nationally representative physician officevisits for undescended testes listed as any diagnosis,2002-2007 (merged), 6-year count

	6-Year Count	
Total	644,218	
Age		
0-2	433,091	
3-10	202,694	
11-17	8,433	
Race/ethnicity		
White	562,485	
Black	34,335	
Hispanic	47,398	
Region		
Northeast	41,366	
South	332,729	
Midwest	181,933	
West	88,190	

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

	2002 (N=52)		2003 (N=45)		2004 (N=23)		2005 (N=15)		2006 (N=20)	
	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate	Rate	Age- Adjusted Rate
Total	3.0	3.0	2.4	2.4	1.2 *	1.3	0.8	0.8	1.1*	1.1
Age										
▶ 0-2	1.4 [•]		4.0 [•]		2.7 [◆]		2.3*		2.6*	
3-10	2.2**		1.4**		0.4*•		0.1**		1.1**	
11-17	4.6*		2.9**		1.6**		0.9**		0.4**	
Race/ethnicity										
► White	3.7 [◆]	4.4	2.5 [•]	2.5	0.5 [◆]	0.5	0.6	1.1	0.7	0.7
Black	6.3**	8.0	12.1**	21.0	2.3**	2.6				
Hispanic	1.3**	2.7	1.7**	10.1	1.8**	10.6	1.7**	3.2	0.6**	3.2
Asian					3.8**	11.8				
Other							4.5 ^{*◆}	13.5		
Unknown			1.1*•		2.6**		1.7*•		2.5**	
Missing	2.8**		1.8**		2.6**		0.7**		2.9**	
Region										
Northeast			1.0*•	2.1	0.5	3.0	1.0 ⁺	1.8		
South	1.6**	1.7	2.6*	2.6	1.1*	2.1	0.3**	0.6	0.6**	0.6
 Midwest 	6.3	6.4	3.3 [•]	3.3	2.0 [◆]	2.1	1.8 [•]	1.8	2.5 [◆]	2.5
West	0.5**	2.5	0.4**	2.5						

Table 13-20. Emergency room visits by privately insured individuals for undescended testes listed as primary diagnosis, rate.^a age-adjusted rate^b

... 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.

^aRate per 100,000 based on enrollment in calendar years for individuals in the same demographic stratum.

^bRate per 100,000 age-adjusted to the 2005 US standard population (US Population Estimates from Current Population Survey).

SOURCE: i3 Claims Database, 2002-2006.

2002-2007 (merged), 6-year count						
	6-Year Count					
Total	5,279					
Age						
0-2	1,905					
3-10	3,374					
11-17						
Race/ethnicity						
White	5,279					
Black						
Hispanic						
Region						
Northeast	3,374					
South						
Midwest						
West	1,905					

Table 13-21. Nationally representative emergency room visits for undescended testes listed as primary diagnosis, 2002-2007 (merged), 6-year count

... Data unavailable.

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

