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Objectives

- Describe the anatomy of the urinary system
- Describe the anatomy and functions of the male reproductive system (the female reproductive system is covered elsewhere)
- Understand the structures and processes that form and eliminate urine
- Understand and learn where to locate diseases specific to the urinary system within ICD-9-CM
- Learn the components of the CPT[®] manual specific to the genitourinary system and male genital system
- Determine when and how to apply modifiers
- Discover which HCPCS Level II codes are significant to the genitourinary system



Anatomy: Urinary System

- Two kidneys (filters)
- Renal pelvis/one per kidney (funnels urine into ureters)
- Two ureters (to bladder)
- One bladder (storage)
- One urethra (exit)

Nephro = kidney Renal = related to kidney Pyelo = renal pelvis



Anatomy: Urinary System

- Kidneys
 - Retroperitoneal (behind the peritoneal cavity)
 - Right kidney
 - Liver is Superior and anterior to the right kidney
 - 12th thoracic vertebrae
 - Left kidney
 - Contact with spleen, pancreas and stomach
 - Contact with the 11th rib
 - Andrenal glands sit on top of the kidneys



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Anatomy: Urinary System

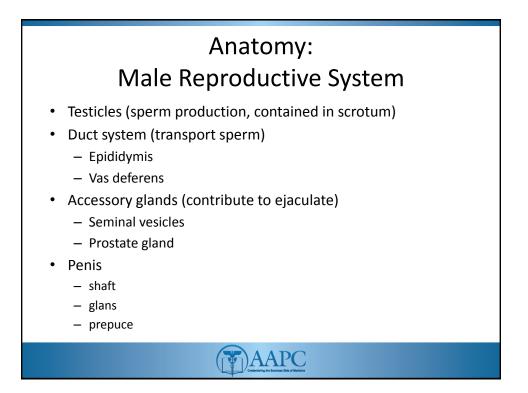
- Stones (syn. Calculi, nephrolithiasis, or kidney stones)
 - Junction of ureters and renal pelves
 - Where ureters cross the brim of the pelvic inlet
 - Where ureters pass through the wall of the bladder

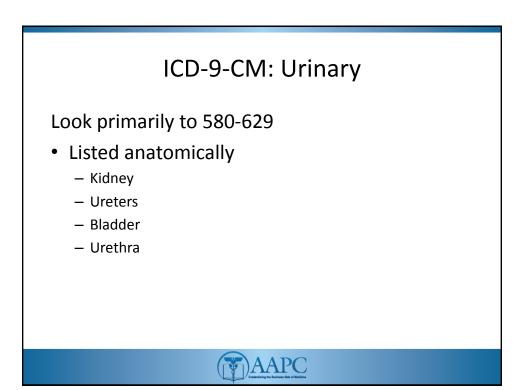


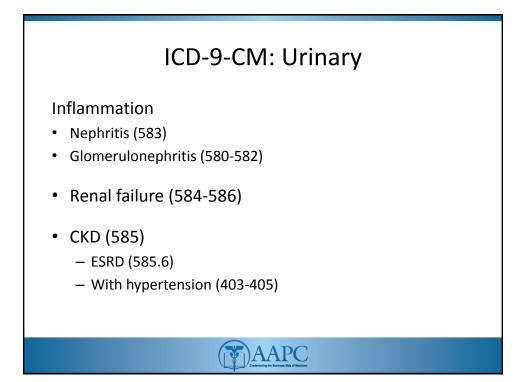
Anatomy: Urinary System

- Bladder
 - Hollow muscular viscus
 - Walls of the bladder are composed of muscle
 - As urine fills the bladder, stretch receptors in the muscle wall respond
 - With relacation, urin passes through the sphincter into the urethra and outside the body
- Male urine left in the urethra is ejected by contraction of muscles located in the perineum
- Female urethra is fairly short, explains why females more easily get bladder infections









ICD-9-CM: Urinary

- Disorders resulting from impaired renal function (588)
 - Report underlying condition first
 - Central diabetes inspidus (253.5)
 - Nephrogenic diabetes insipidus (588.1)
- Small Kidney (589)
 - Uni- or bi-lateral
 - Congenital or by blockage/disease
- Pyelonephritis (590)
 - Identify responsible organism



ICD-9-CM: Urinary

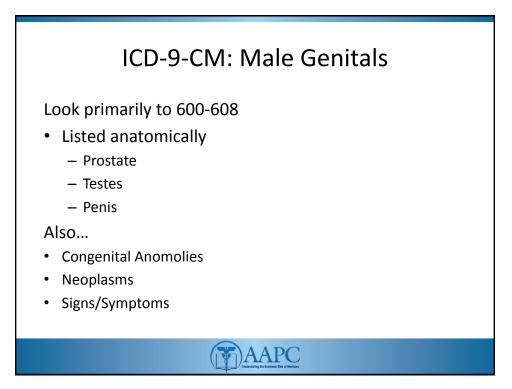
- Hydronephrosis (591)
 - Fluid accumulation due to obstruction
- Calculi (stones)
 - Kidney and ureter (592)
 - Lower urinary tract (594)
 - Prostatic calculus (602.0)
- Acquired cysts of Kidney (593.2)
 - Congenital (753.1x)

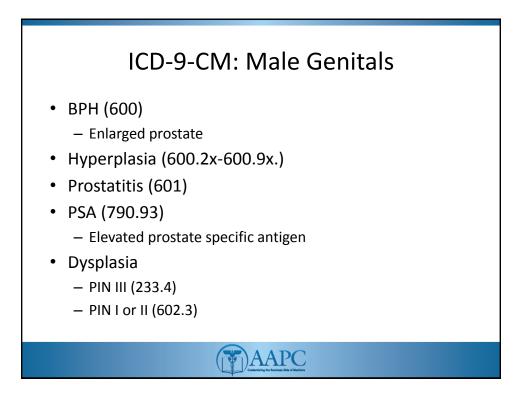


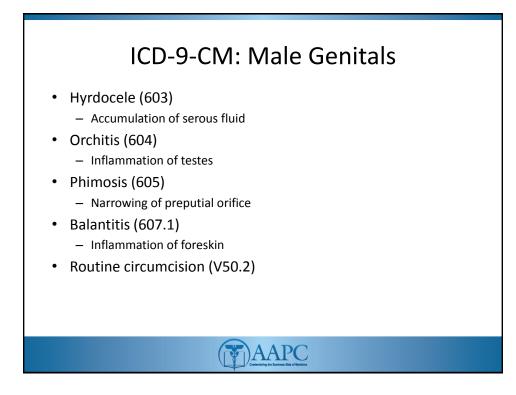
ICD-9-CM: Urinary

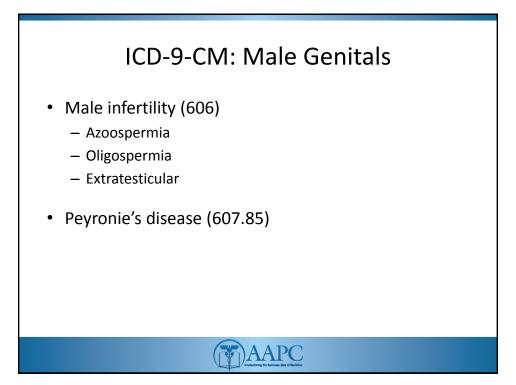
- VUR (593.7x)
 - Backflow or urine into ureter
- Cystitis (595)
 - Bladder inflammation
- Voiding disorders (596)
 - Urinary incontinence (788.3x)
- UTI (599)
 - Report organism, when known

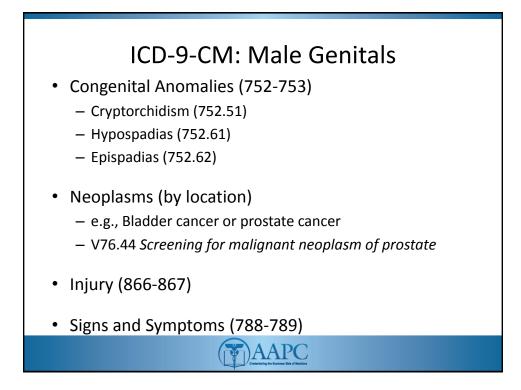


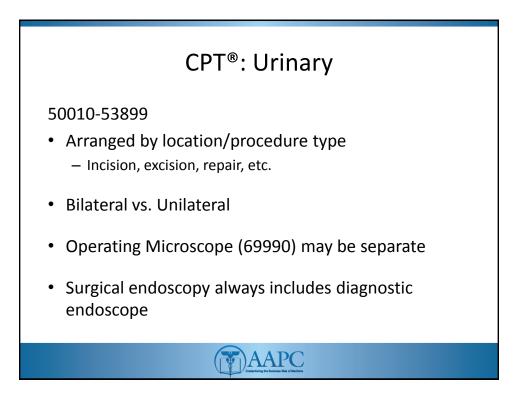












CPT[®]: Urinary

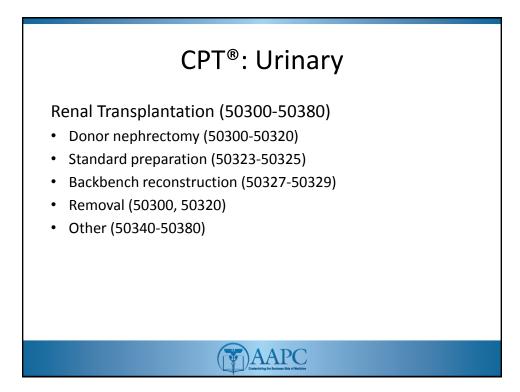
Kidney

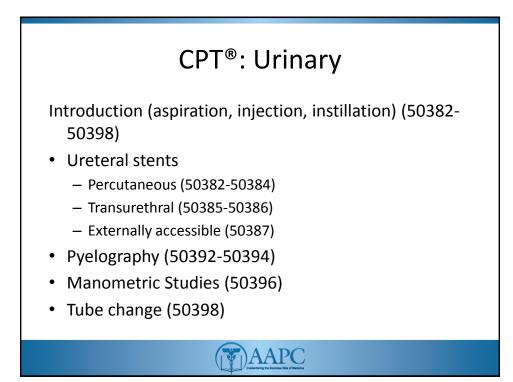
Incision

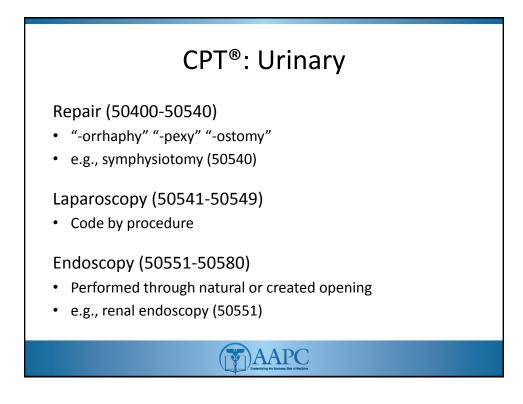
- "otomy"
 - Nephrotomy (50045) = incision of kidney
 - Pyelotomy = incision of renal pelvis
 - Nephrolithotomy (50060-50075)
 - Incision to remove calculi
 - Percutaneous removal of calculi (50080-50081)
 - Nephrostomy tract (50395)



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CPT[®]: Urinary

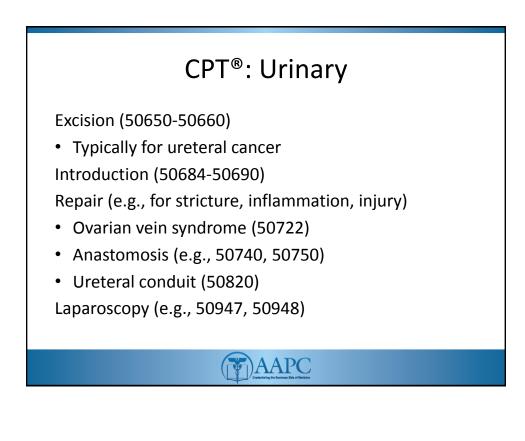
- Lithotripsy (50590)
 - Crushing of calculi (stones)
- Percutaneous ablation of renal tumors (50592)
- Cryotherapy for renal tumors (50593)

Ureter

Incision

- For insertion of stent (50605)
- 50610-50630 (open), watch for location
 - Stent via cystoscopy (52332)





CPT[®]: Urinary

Endoscopy (50951-50961)

- Examination of renal and ureteral structures

Code by approach

Bladder (51020-52700)

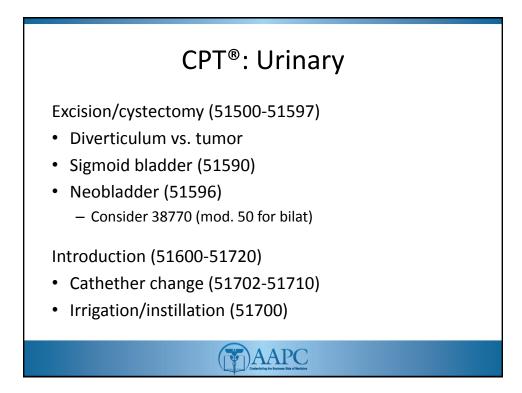
Incision

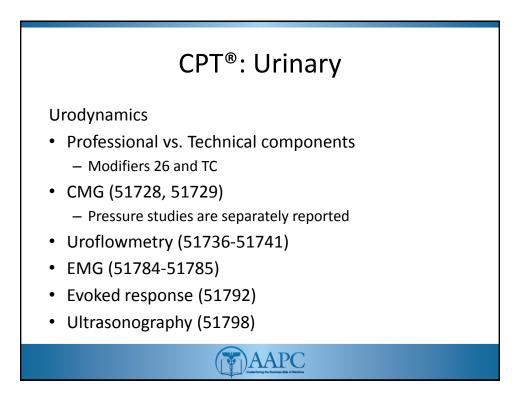
• e.g., cystotomy, cystostomy, cystolithotomy

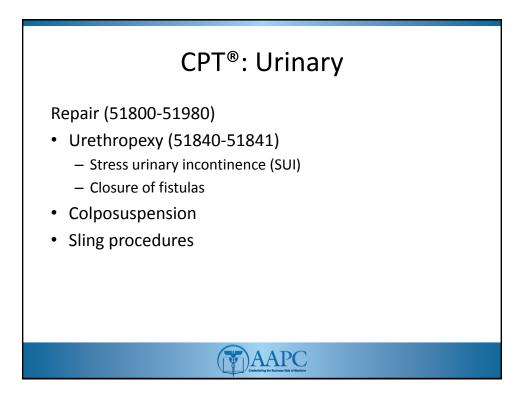
Removal (51100-51102)

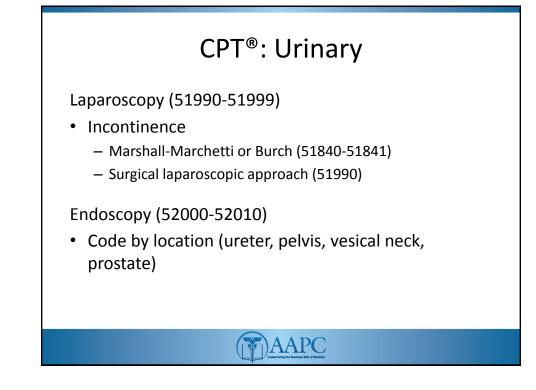
Aspiration











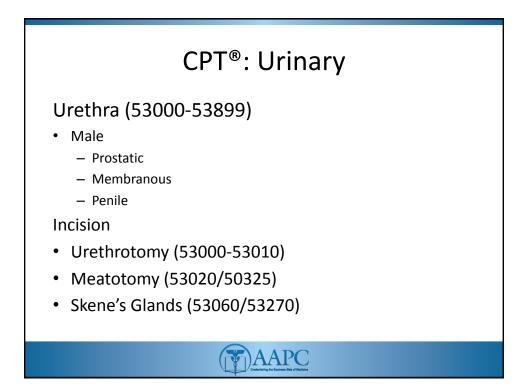
CPT®: Urinary Transurethral Surgery (52204-52355) • Biopsy (52204) • Cystourethroscopy - 52270 female specific - 52275 male specific • Female urethral syndrome (52285) • Ureteral strictures (53341-52346) • Ureteral/renal pelvic tumors (52351-52355)

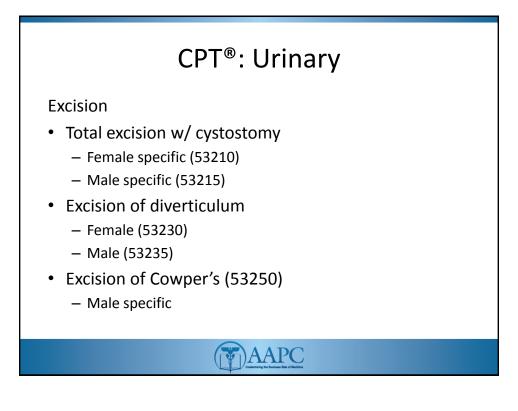
CPT[®]: Urinary

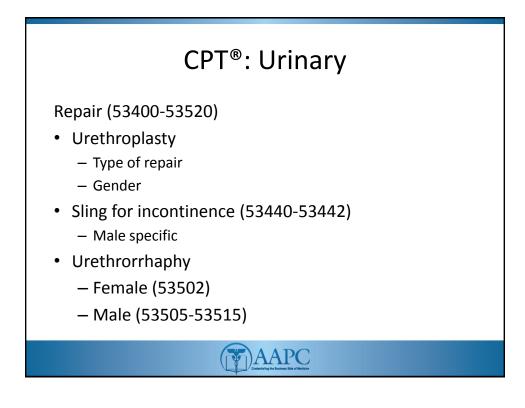
Vesical Neck and Prostate (52400-52700)

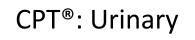
- Be aware of gender specification
- Resection of bladder neck (52500)
 Often bundled to more complex procedure
- TURP (e.g., 52601)
- Laser coagulation of prostate (52647)
- Greenlight laser w/ TURP (52648)
- Contact laser vaporization (52649)











Manipulation (53600-53665)

Other Procedures (53850-53899)

- Transuretheral prostate destruction (53850-53853)
 Male specific
- Temp. prostatic stent (53855)



CPT[®]: Male Genitals

Penis (54000-55899)

- Incision (54000-54015)
- Destruction (54050-54065)
- Excision (54100-54164)
 - Excision of plaque (54110-54112)
 - Penectomy (54120-54135)
 - Circumcision (54120-54161)
- Introduction (54200-54250)
- Repair (54300-54440)

•

- Hypospadia/epispadia (54300-54390)
- Prosthesis (5440-54417)
- Manipulation (54450)



CPT[®]: Male Genitals

Testis (54500-54699)

- Biopsy (54000-54005)
 - Test sperm production
- Orchiectomy (removal)/orchiopexy (repair)
 - By abdominal laparoscope (54690-54692)
- Orchiopexy
 - By approach



CPT[®]: Male Genitals

- Epididymis (54700-54901)
- Tunica Vaginalis (55000-55060)
- Scrotum (55100-55180)
- Vas Deferens (55200-55450)
- Spermatic Cord (55500-55559)
- Seminal Vesicles (55600-55680)

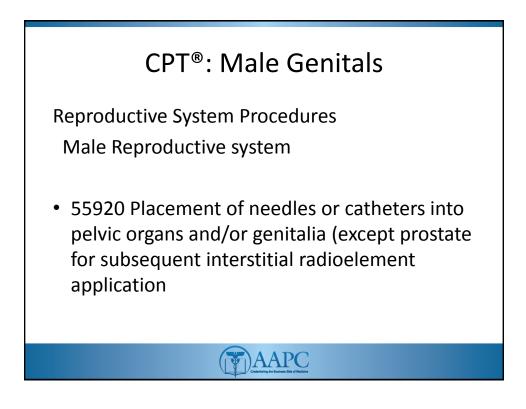


CPT[®]: Male Genitals

Prostate

- Biopsy (55700)
 - w/ imaging guidance (76942 in addition)
 - Both professional (26) and technical (TC) components
- Excision (55801-55845)
 - Code by approach, lymph node involvement
- Other procedures (55870-55899)
 - treatments for malignancy



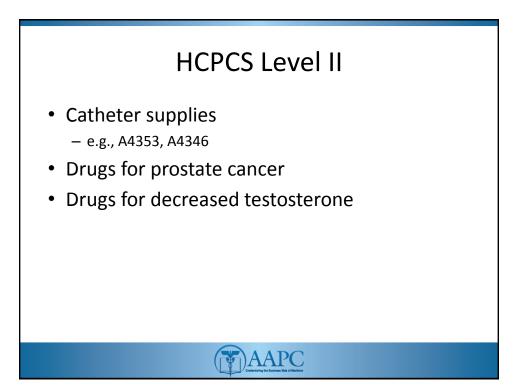




Intersex Surgery

- 55970 Intersex surgery; male to female
- 55980 female to male





Modifiers

- 22 Increased surgical services
 - SIGNIFICANT documented additional work
- 50 Bilateral procedures
- 52 Reduced services
 - Voluntarily reduced
- 53 discontinued service
 - Reduced for patient safety
- 58 staged/related during global period



