

TS20–27 Urinary System (12.5dpc–P3)

Edited version of MLSupplTable2.pdf from Little et al, 2007 (PMID: 17452023).

Edits were made by GUDMAP Editorial Office in May 2008 and are highlighted in yellow.

TS20 urinary system (12.5dpc)

- urinary system (EMAP:4580)
 - mesentery (EMAP:4581)
 - rest of mesentery (EMAP:29610)
 - urogenital mesentery (EMAP:4582)
 - metanephros (EMAP:4587) (kidney)
 - cap mesenchyme (syn: condensed mesenchyme) (EMAP:4589)
 - pretubular aggregate (EMAP:27674)
 - renal vesicle (syn: stage I nephron; syn: epithelial vesicle) (EMAP:27679)
 - comma-shaped body (EMAP:27682)
 - upper limb of comma-shaped body (syn:distal limb of comma-shaped body) (EMAP:27685)
 - lower limb of comma-shaped body (syn:proximal limb of comma-shaped body) (EMAP:27688)
 - renal interstitium (EMAP:27691)
 - nephrogenic interstitium (syn: peripheral blastema) (EMAP: 31271)
 - resident macrophages (syn: renal monocytes) (EMAP: 31274)
 - rest of renal interstitium (EMAP: 31277)
 - developing vasculature (EMAP:27795)
 - primitive collecting duct (syn: ureteric tree) (EMAP:4590)
 - ureteric tip (syn: ampulla) (EMAP:27695)
 - ureteric trunk (syn: ureteric stalk) (EMAP:27698)
 - nephric duct, metanephric portion (syn: Wolffian duct) (EMAP:4592)**
 - ureter (EMAP:4591)
 - epithelial layer of ureter (EMAP:27709)
 - ureteral mesenchyme (EMAP:27712)
 - subepithelial layer (syn: presumptive lamina propria) (EMAP:28562)
 - ureteral mesenchyme, rest of (EMAP:29994)
 - ureteral vasculature (EMAP:30851)
 - allantois (EMAP:28548)
 - urogenital sinus (EMAP:4594)
 - primitive bladder (syn: cranial urogenital sinus) (EMAP:30871)
 - epithelial layer of primitive bladder (EMAP:30874)
 - mesenchymal layer of primitive bladder (EMAP:30877)
 - rest of urogenital sinus (EMAP:30880)
 - epithelial layer of rest of urogenital sinus (EMAP:30883)
 - mesenchymal layer of rest of urogenital sinus (EMAP:30886)
 - urorectal septum (EMAP:4595)
 - urogenital membrane (EMAP:4593)
 - urethral plate (EMAP:28556)
 - urethral fold (EMAP:30889)

GROUP TERMS (TS20)

- early nephron (syn: early tubule) (EMAP:29339)**
 - renal vesicle (syn:epithelial vesicle; stage I nephron) (EMAP:27679)
 - comma-shaped body (EMAP:27682)
 - lower limb of comma-shaped body (syn:distal limb of comma-shaped body) (EMAP:27688)
 - upper limb of comma-shaped body (syn:proximal limb of comma-shaped body) (EMAP:27685)

TS21 urinary system (13.5dpc)

urinary system (EMAP:5500)

- mesentery (EMAP:5502)
 - rest of mesentery (EMAP:29611)
 - urogenital mesentery (EMAP:5503)
- metanephros (syn: kidney) (EMAP:5504)
 - renal capsule (EMAP:27715)
 - nephrogenic zone (EMAP:27722)
 - nephrogenic interstitium (syn: peripheral blastema (EMAP:5512))
 - cap mesenchyme (syn: condensed mesenchyme) (EMAP:27736)
 - pretubular aggregate (EMAP:27743)
 - ureteric tip (syn: ureteric ampulla) (EMAP:27750)
 - ureteric tree terminal branch excluding tip itself (EMAP: 31046)
 - renal vesicle (syn: stage I nephron, syn: epithelial vesicle) (EMAP:27680)
 - comma-shaped body (EMAP:27683)
 - upper limb of comma-shaped body (syn:distal limb of comma-shaped body) (EMAP:27686)
 - lower limb of comma-shaped body (syn:proximal limb of comma-shaped body) (EMAP:27689)
 - s-shaped body (syn: stage II nephron) (EMAP:27757)
 - renal connecting tubule (EMAP:27759)
 - distal segment of S-shaped body (syn:upper limb of S-shaped body) (EMAP:27761)
 - medial segment of S-shaped body (syn: mid-portion of S-shaped body) (EMAP:27763)
 - proximal segment of S-shaped body (syn: lower limb of S-shaped body) (EMAP:27765)
 - visceral epithelium (EMAP:27767)
 - parietal epithelium (EMAP:27769)
 - capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron) (EMAP:27771)
 - visceral epithelium (syn: podocyte layer) (EMAP:27773)
 - parietal epithelium (EMAP:27775)
 - associated interstitium (EMAP:27777)
 - presumptive mesangium (EMAP:27779)
 - presumptive endothelium of renal corpuscle (EMAP:27781)
 - renal tubule (EMAP:27783)
 - early proximal tubule (EMAP:27785)
 - anlage of the loop of Henle (EMAP:27787)
 - early distal tubule (EMAP:27789)
 - renal connecting tubule (EMAP:27791)
 - renal interstitium (EMAP:27793)
 - renal fibroblasts (EMAP: 31280)
 - resident macrophages (syn: renal monocytes) (EMAP: 31275)
 - rest of renal interstitium (EMAP: 31278)
 - developing vasculature (EMAP:27796)
 - ureteric trunk (syn: ureteric stalk) (EMAP:28406)
 - pelvis (EMAP:5507)
- renal artery (EMAP:28379)
 - endothelium of renal artery (EMAP:29996)
 - smooth muscle layer of renal artery (EMAP:30004)
- renal vein (EMAP:28383)
 - endothelium of renal vein (EMAP:30012)
 - smooth muscle layer of renal vein (EMAP:30020)
- ureter (EMAP:5509)
 - urothelium (syn:transitional epithelium) (EMAP:28585)
 - superficial cellular layer (syn umbrella cell layer) (EMAP:28589)
 - deep cellular layer (syn basal urothelium) (EMAP:30027)
 - ureteral mesenchyme (EMAP:28557)
 - subepithelial layer (syn: presumptive lamina propria) (EMAP:28563)
 - middle layer (syn: presumptive ureteral smooth muscle layer) (EMAP:28568)
 - outer layer (syn: presumptive adventitia) (EMAP:28571)
 - ureteral vasculature (EMAP:30852)
- allantois (EMAP:28549)
- urogenital sinus (EMAP:5517)
 - primitive bladder (EMAP:30872)
 - epithelium of bladder (EMAP:30875)

mesenchyme of bladder (EMAP:30878)
 urethra (EMAP:30892)
 pelvic urethra (EMAP:30894)
 caudal urethra (EMAP:30896)
 urethral plate (EMAP:30898)
 urethral fold (EMAP:30900)
 urorectal septum (EMAP:5521)
 urogenital membrane (EMAP:5516)

GROUP TERMS (TS21)

primitive collecting duct (syn: ureteric tree) (GROUP) (EMAP:5508)

ureteric tip (syn: ureteric ampulla) (EMAP:27750)
 ureteric tree terminal branch excluding tip itself (EMAP:31046)
 ureteric trunk (syn:ureteric stalk) (EMAP:28406)

renal vasculature (GROUP) (EMAP:28458)

renal artery (EMAP:28379)
 endothelium of renal artery (EMAP:29996)
 smooth muscle layer of renal artery (EMAP:30004)
 renal vein (EMAP:28383)
 endothelium of renal vein (EMAP:30012)
 smooth muscle layer of renal vein (EMAP:30020)
 presumptive endothelium of renal corpuscle (EMAP:27781)
 developing vasculature (EMAP:27796)

early tubule (GROUP) (EMAP:5513)

renal vesicle (epithelial vesicle; stage I nephron) (EMAP:27680)
 comma-shaped body (EMAP:27683)
 proximal segment of comma-shaped body (syn:lower limb of comma-shaped body) (EMAP:27689)
 distal segment of comma-shaped body (syn:upper limb of comma-shaped body) (EMAP:27686)
 S-shaped body (EMAP:27757) (stage II nephron)
 distal segment of S-shaped body (syn:upper limb of S-shaped body) (EMAP:27761)
 medial segment of S-shaped body (syn:mid-portion of S-shaped body) (EMAP:27763)
 proximal segment of S-shaped body (syn:lower limb of S-shaped body) (EMAP:27765)
 parietal epithelium (EMAP:27769)
 visceral epithelium (EMAP:27767)
 renal connecting tubule (EMAP:27759)

nephron (GROUP) (EMAP:5513)

renal vesicle (epithelial vesicle; stage I nephron) (EMAP:27680)
 comma-shaped body (EMAP:27683)
 proximal segment of comma-shaped body (syn:lower limb of comma-shaped body) (EMAP:27689)
 distal segment of comma-shaped body (syn:upper limb of comma-shaped body) (EMAP:27686)
 S-shaped body (EMAP:27757) (stage II nephron)
 distal segment of S-shaped body (syn:upper limb of S-shaped body) (EMAP:27761)
 medial segment of S-shaped body (syn:mid-portion of S-shaped body) (EMAP:27763)
 proximal segment of S-shaped body (syn:lower limb of S-shaped body) (EMAP:27765)
 parietal epithelium (EMAP:27769)
 visceral epithelium (EMAP:27767)
 renal connecting tubule (EMAP:27759)
 capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron) (EMAP:27771)

- associated interstitium of renal corpuscle (EMAP:27777)
- parietal epithelium (EMAP:27775)
- presumptive endothelium of renal corpuscle (EMAP:27781)
- presumptive mesangium (EMAP:27779)
- visceral epithelium (syn:podocyte layer) (EMAP:27773)
- renal tubule (EMAP:27783)
 - anlagen of Loop of Henle (EMAP:27787)
 - early distal tubule (EMAP:27789)
 - early proximal tubule (EMAP:27785)
 - renal connecting tubule (EMAP:27791)

TS22 urinary system (14.5dpc)

- urinary system (EMAP:6667)
 - mesentery (EMAP:6672)
 - rest of mesentery (EMAP:29612)
 - urogenital mesentery (EMAP:6673)
 - metanephros (syn:kidney) (EMAP:6674)
 - renal capsule (EMAP:27716)
 - nephrogenic zone (EMAP:27723)
 - nephrogenic interstitium (syn: peripheral blastema) (EMAP:27730)
 - cap mesenchyme (syn: condensed mesenchyme) (EMAP:27737)
 - pretubular aggregate (syn pretubular condensate) (EMAP:27744)
 - ureteric tip (syn: ureteric ampulla) (EMAP:27751)
 - ureteric tree terminal branch (EMAP: 31047)
 - renal cortex (EMAP:6681)**
 - renal vesicle (syn:stage I nephron, syn: epithelial vesicle) (EMAP:27830)
 - comma-shaped body (EMAP:27836)
 - upper limb of comma-shaped body (syn:distal limb of comma-shaped body) (EMAP:27842)
 - lower limb of comma-shaped body (syn:proximal limb of comma-shaped body) (EMAP:27848)
 - s-shaped body (syn: stage II nephron) (EMAP:27854)
 - renal connecting tubule (EMAP:27866)
 - distal segment of S-shaped body (syn:upper limb of S-shaped body) (EMAP:27872)
 - medial segment of S-shaped body (syn: mid-portion of S-shaped body) (EMAP:27878)
 - proximal segment of S-shaped body (syn: lower limb of S-shaped body) (EMAP:27884)
 - visceral epithelium (EMAP:27896)
 - parietal epithelium (EMAP:27902)
 - visceral epithelium (syn: podocyte layer) (EMAP:27914)
 - parietal epithelium (EMAP:27920)
 - associated interstitium of renal corpuscle (EMAP:27926)
 - presumptive mesangium (EMAP:27932)
 - presumptive endothelium of renal corpuscle (EMAP:27938)
 - capillary loop renal corpuscle (syn: renal corpuscle of Stage III nephron) (EMAP:27908)
 - associated interstitium of renal corpuscle (EMAP:27926)
 - parietal epithelium (EMAP:27920)
 - presumptive endothelium of renal corpuscle (EMAP:27938)
 - presumptive mesangium (EMAP:27932)
 - visceral epithelium (EMAP:27914) (podocyte layer)
 - maturing renal corpuscle (syn: renal corpuscle of Stage IV nephron) (EMAP:27944)
 - maturing glomerular tuft (syn: maturing glomerulus) (EMAP:27950)
 - glomerular capillary system (EMAP:27956)
 - glomerular mesangium (EMAP:27962)
 - visceral epithelium (syn: podocyte layer) (EMAP:27968)
 - glomerular basement membrane (EMAP:30966)
 - Bowman's capsule (syn: glomerular capsule) (EMAP:27974)
 - parietal epithelium (EMAP:27980)
 - urinary space of renal corpuscle (syn: Bowman's space) (EMAP:27986)

- juxtaglomerular arteriole (EMAP:27992)
- cortical renal tubule (EMAP:27998)
 - early proximal tubule (EMAP:28004)
 - anlage of loop of Henle (syn: primitive loop of Henle) (EMAP: 31282)
 - early distal tubule (EMAP:28008)
 - renal connecting tubule (EMAP:28012)
- cortical collecting duct (EMAP:28131)
- renal cortical interstitium (syn:cortical stroma) (EMAP:28137)
 - renal cortical fibroblasts (EMAP: 31289)
 - resident macrophages of the cortex (syn: renal monocytes of the cortex) (EMAP: 31297)
 - rest of renal cortical interstitium (EMAP: 31305)
- developing vasculature of cortex (EMAP:28030)
 - arterial cortical vasculature (EMAP:28036)
 - venous cortical vasculature (EMAP:28038)
 - cortical capillary (EMAP:28040)
- renal medulla (EMAP:28042)
 - immature loop of Henle (EMAP: 28050)
 - bend (EMAP: 31022)
 - straight limb (EMAP: 31018)
 - medullary collecting duct (EMAP:28062)
 - renal medullary interstitium (syn:medullary stroma) (EMAP:6685)
 - renal medullary fibroblasts (EMAP: 31461)
 - resident macrophages of the medulla (syn: renal monocytes of the medulla) (EMAP: 31462)
 - rest of renal medullary interstitium (EMAP: 31463)
 - developing vasculature of medulla (EMAP:28070)
 - arterial medullary vasculature (EMAP:28072)
 - venous medullary vasculature (EMAP:28074)
 - medullary capillary (EMAP:28076)
- pelvis (EMAP:6677)
 - pelvic urothelial lining (syn: pelvic urothelium) (EMAP:28078)
 - perihilar interstitium (EMAP:28084)
- renal artery (EMAP:28380)
 - endothelium of renal artery (EMAP:29997)
 - smooth muscle layer of renal artery (EMAP:30005)
- renal vein (EMAP:28384)
 - endothelium of renal vein (EMAP:30013)
 - smooth muscle layer of renal vein (EMAP:30021)
- ureter (syn: primitive ureter) (EMAP:6679)
 - urothelium (syn:transitional epithelium) (EMAP:28090)
 - superficial cellular layer (syn: umbrella cell) (EMAP:28590)
 - deep cellular layer (syn:basal urothelium) (EMAP:28102)
 - ureteral mesenchyme (EMAP:28558)
 - subepithelial layer (syn: presumptive lamina propria) (EMAP:28564)
 - middle layer (syn: presumptive ureteral smooth muscle layer) (EMAP:28569)
 - outer layer (syn: presumptive adventitia) (EMAP:28572)
 - ureteral vasculature (EMAP:30853)
- urachus (EMAP:6670)**
- bladder (EMAP:6668)
 - epithelium of the bladder (syn:urothelium) (EMAP:28602)
 - epithelium of fundus (EMAP:28608)
 - epithelium of trigone (EMAP:28614)
 - epithelium of neck (EMAP:30082)
 - lamina propria of the bladder (EMAP:30089)
 - lamina propria of the fundus (EMAP:30103)
 - lamina propria of the trigone (EMAP:30110)
 - lamina propria of the neck (EMAP:30117)
 - muscularis mucosa of bladder (EMAP:28620)
 - muscularis mucosa of fundus (EMAP:28626)
 - muscularis mucosa of trigone (EMAP:28632)
 - muscularis mucosa of neck (EMAP:30138)
 - detrusor muscle of bladder (EMAP:28638)
 - detrusor muscle of fundus (EMAP:28644)
 - detrusor muscle of trigone (EMAP:28650)

detrusor muscle of neck (EMAP:30124)
 serosa of bladder (EMAP:28662)
 serosa of fundus (EMAP:28668)
 serosa of trigone (EMAP:28674)
 serosa of neck (EMAP:30131)
 blood vessels of bladder (EMAP:28680)
 urethra (EMAP:30902)
 pelvic urethra (EMAP:30904)
 epithelial layer of pelvic urethra (EMAP:30906)
 mesenchymal layer of pelvic urethra (EMAP:30908)
 muscle layer of pelvic urethra (EMAP:30910)
 phallic urethra (EMAP:30912)
 urethral plate of phallic urethra (EMAP:30914)
 urethral fold of phallic urethra (EMAP:30916)
 urorectal septum (EMAP:6692)
 urogenital membrane (EMAP:6688)

GROUP TERMS (TS22)

developing capillary loop stage nephron (syn:stage III nephron) (GROUP) (EMAP:28507)

capillary loop renal corpuscle (syn: renal corpuscle of Stage III nephron) (EMAP:27908)
 associated interstitium of renal corpuscle (EMAP:27926)
 parietal epithelium (EMAP:27920)
 presumptive endothelium of renal corpuscle (EMAP:27938)
 presumptive mesangium (EMAP:27932)
 visceral epithelium (syn:podocyte layer) (EMAP:27914)
 cortical renal tubule (syn:tubular portion of nephron) (EMAP:27998) **GROUP**
 early distal tubule (EMAP:28008)
 anlage of loop of Henle (syn: primitive loop of Henle) (EMAP: 31282)
 early proximal tubule (EMAP:28004)
 renal connecting tubule (EMAP:28012)

maturing nephron (syn: Stage IV nephron)GROUP (EMAP:28446)

maturing renal corpuscle (syn: renal corpuscle of stage IV nephron) (EMAP:27944)
 Bowman's capsule (syn:glomerular capsule) (EMAP:27974)
 parietal epithelium (EMAP:27980)
 urinary space of renal corpuscle (syn:Bowman's space) (EMAP:27986)
 juxtaglomerular arteriole (EMAP:27992)
 maturing glomerular tuft (syn:maturing glomerulus) (EMAP:27950)
 glomerular capillary system (EMAP:27956)
 glomerular mesangium (EMAP:27962)
 visceral epithelium (syn:podocyte layer) (EMAP:27968)
 cortical renal tubule (EMAP:27998) **GROUP**
 early distal tubule (EMAP:28008)
 early proximal tubule (EMAP:28004)
 renal connecting tubule (EMAP:28012)
medullary renal tubule (EMAP:31415) GROUP
 immature loop of Henle (EMAP:28050)
 straight limb (EMAP:28056)
 bend (syn: U-turn) (EMAP:28058)
 rest of medullary tubule (EMAP:28060)

renal vasculature (GROUP) (EMAP:28459)

developing vasculature of cortex (EMAP:28030)
 arterial cortical vasculature (EMAP:28036)
 cortical capillary (EMAP:28040)
 venous cortical vasculature (EMAP:28038)
 developing vasculature of medulla (EMAP:28070)
 arterial medullary vasculature (EMAP:28072)
 medullary capillary (EMAP:28076)

- venous medullary vasculature (EMAP:28074)
- glomerular capillary system (EMAP:27956)
- juxtaglomerular arteriole (EMAP:27992)
- presumptive endothelium (EMAP:27938)
- renal artery (EMAP:28380)
 - endothelium of renal artery (EMAP:29997)
 - smooth muscle layer of renal artery (EMAP:30005)
- renal vein (EMAP:28384)
 - endothelium of renal vein (EMAP:30013)
 - smooth muscle layer of renal vein (EMAP:30021)

collecting duct (GROUP) (EMAP:6678)

- ureteric tip (EMAP:27751) (syn:ureteric ampulla)
- ureteric tree terminal branch (syn:collecting duct terminal branch) (EMAP:31047)
- ureteric trunk (EMAP:28495)
 - medullary collecting duct (EMAP:28062)
 - renal cortical collecting duct (EMAP:28131)

renal interstitium (GROUP) (EMAP:28519)

- associated interstitium (EMAP:27926)
- glomerular mesangium (EMAP:27962)
- perihilar interstitium (EMAP:28084)
- nephrogenic interstitium (syn: peripheral blastema) (EMAP:27730)
- presumptive mesangium (EMAP:27932)
- renal cortical interstitium (syn:cortical stroma) (EMAP:28137)
 - renal cortical fibroblast (EMAP: 31289)
 - resident macrophages of the cortex (syn: renal monocytes of the cortex) (EMAP: 31297)
 - rest of renal cortical interstitium (EMAP: 31305)
- renal medullary interstitium (syn:medullary stroma) (EMAP:28066)
 - renal medullary fibroblast (EMAP 31461)
 - resident macrophages of the medulla (syn: renal monocytes of the medulla) (EMAP 31462)
 - rest of medullary interstitium (EMAP 31463)

early tubule (GROUP) (EMAP:28501)

- renal vesicle (EMAP:27830) (epithelial vesicle; stage I nephron)
- comma-shaped body (EMAP: 27836)
 - distal segment of comma-shaped body (syn:upper limb of comma-shaped body) (EMAP:27842)
 - proximal segment of comma-shaped body (syn:lower limb of comma-shaped body) (EMAP:27848)
- S-shaped body (EMAP:27854) (stage II nephron)
 - distal segment of S-shaped body (syn:upper limb of S-shaped body) (EMAP:27872)
 - medial segment of S-shaped body (syn:mid-portion of S-shaped body) (EMAP:27878)
 - proximal segment of S-shaped body (syn:lower limb of S-shaped body) (EMAP:27884)
 - parietal epithelium (EMAP:27902)
 - visceral epithelium (EMAP:27896)
- renal connecting tubule (EMAP:27866)

Late tubule (GROUP) (EMAP:28528)

- capillary loop renal corpuscle (syn: renal corpuscle of Stage III nephron) (EMAP:27908)
 - associated interstitium of renal corpuscle (EMAP:27926)
 - parietal epithelium (EMAP:27920)
 - presumptive endothelium (EMAP:27938)
 - presumptive mesangium (EMAP:27932)
 - visceral epithelium (syn:podocyte layer) (EMAP:27914)
- maturing renal corpuscle (syn: renal corpuscle of stage IV nephron) (EMAP:27944)
 - Bowman's capsule (syn:glomerular capsule) (EMAP:27974)

parietal epithelium (EMAP:27980)
 urinary space of renal corpuscle (syn: Bowman's space)
 (EMAP:27986)
 juxtaglomerular arteriole (EMAP:27992)
 maturing glomerular tuft (syn: maturing glomerulus) (EMAP:27950)
 glomerular capillary system (EMAP:27956)
 glomerular mesangium (EMAP:27962)
 visceral epithelium (syn: podocyte layer) (EMAP:27968)
 cortical renal tubule (EMAP:27998)
 early distal tubule (EMAP:28008)
 early proximal tubule (EMAP:28004)
 renal connecting tubule (EMAP:28012)
medullary renal tubule (EMAP:31415) GROUP
 immature loop of Henle (EMAP:28050)
 straight limb (EMAP:28056)
 bend (syn: U-turn) (EMAP:28058)
 rest of medullary tubule (EMAP:28060)

nephron (GROUP) (EMAP:29341)

renal vesicle (EMAP:27830) (epithelial vesicle; stage I nephron)
 comma-shaped body (EMAP:27836)
 proximal segment of comma-shaped body (syn: lower limb of comma-
 shaped body) (EMAP:27848)
 distal segment of comma-shaped body (syn: upper limb of comma-shaped
 body) (EMAP:27842)
 S-shaped body (EMAP:27854) (stage II nephron)
 distal segment of S-shaped body (syn: upper limb of S-shaped body)
 (EMAP:27872)
 medial segment of S-shaped body (syn: mid-portion of S-shaped body)
 (EMAP:27878)
 proximal segment of S-shaped body (syn: lower limb of S-shaped body)
 (EMAP:27884)
 parietal epithelium (EMAP:27902)
 visceral epithelium (EMAP:27896)
 renal connecting tubule (EMAP:27866)
 capillary loop renal corpuscle (syn: renal corpuscle of stage III nephron)
 (EMAP:27908)
 associated interstitium of renal corpuscle (EMAP:27926)
 parietal epithelium (EMAP:27920)
 presumptive endothelium of renal corpuscle (EMAP:27938)
 presumptive mesangium (EMAP:27932)
 visceral epithelium (EMAP:27914) (podocyte layer)
 maturing renal corpuscle (syn: renal corpuscle of stage IV nephron) (EMAP:27944)
 Bowman's capsule (syn: glomerular capsule) (EMAP:27974)
 parietal epithelium (EMAP:27980)
 urinary space of renal corpuscle (syn: Bowman's space) (EMAP:27986)
 juxtaglomerular arteriole (EMAP:27992)
 maturing glomerular tuft (syn: maturing glomerulus) (EMAP:27950)
 glomerular capillary system (EMAP:27956)
 glomerular mesangium (EMAP:27962)
 visceral epithelium (syn: podocyte layer) (EMAP:27968)
 cortical renal tubule (EMAP:27998)
 early distal tubule (EMAP:28008)
 anlage of loop of Henle (syn: primitive loop of Henle) (EMAP: 31282)
 early proximal tubule (EMAP:28004)
 renal connecting tubule (EMAP:28012)
medullary renal tubule (EMAP:31415) GROUP
 immature loop of Henle (EMAP:28050)
 straight limb (EMAP:28056)
 bend (syn: U-turn) (EMAP:28058)
 rest of medullary tubule (EMAP:28060)

TS23 urinary system (15.5dpc)

- urinary system (EMAP:8217)
 - metanephros (syn: kidney) (EMAP:8226)
 - renal capsule (EMAP:8237)
 - nephrogenic zone (EMAP:27724)
 - nephrogenic interstitium (syn: peripheral blastema) (EMAP:27731)
 - cap mesenchyme (syn: condensed mesenchyme) (EMAP:27738)
 - pretubular aggregate (syn: pretubular condensate) (EMAP:27745)
 - ureteric tip (syn: ureteric ampulla) (EMAP:27752)
 - ureteric tree terminal branch excluding tip itself (EMAP:31048)
 - renal cortex (EMAP:8236)
 - renal vesicle (syn: epithelial vesicle; syn: Stage I nephron) (EMAP:27831)
 - comma-shaped body (EMAP:27837)
 - upper limb of comma-shaped body (syn: distal limb of comma-shaped body) (EMAP:27843)
 - lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) (EMAP:27849)
 - S-shaped body (syn: stage II nephron) (EMAP:27855)
 - renal connecting tubule (EMAP:27867)
 - distal segment of S-shaped body (syn: upper limb of S-shaped body) (EMAP:27873)
 - medial segment of S-shaped body (syn: mid-portion of S-shaped body) (EMAP:27879)
 - proximal segment of S-shaped body (syn: lower limb of S-shaped body) (EMAP:27885)
 - visceral epithelium (EMAP:27897)
 - parietal epithelium (EMAP:27903)
 - capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron) (EMAP:27909)
 - visceral epithelium (syn: podocyte layer) (EMAP:27915)
 - parietal epithelium (EMAP:27921)
 - presumptive mesangium (EMAP:27933)
 - presumptive endothelium of renal corpuscle (EMAP:27939)
 - associated interstitium of renal corpuscle (EMAP:27927)
 - maturing renal corpuscle (syn: renal corpuscle of stage IV nephron) (EMAP:27945)
 - maturing glomerular tuft (syn: maturing glomerulus) (EMAP:27951)
 - glomerular capillary system (EMAP:27957)
 - glomerular basement membrane (EMAP: 30967)
 - glomerular mesangium (EMAP:27963)
 - visceral epithelium (syn: podocyte layer) (EMAP:27969)
 - Bowman's capsule (syn: glomerular capsule) (EMAP:27975)
 - parietal epithelium (EMAP:27981)
 - urinary space of renal corpuscle (syn: Bowman's space) (EMAP:27987)
 - glomerular mesangium of Bowman's capsule (EMAP:30033)
 - juxtaglomerular arteriole (EMAP:27993)
 - cortical renal tubule (EMAP:27999)
 - early proximal tubule (EMAP:28005)
 - anlage of loop of Henle (syn: primitive loop of Henle) (EMAP:31283)
 - early distal tubule (EMAP:28009)
 - renal connecting tubule (EMAP:28013)
 - cortical collecting duct (EMAP:28132)
 - renal cortical interstitium (syn:cortical stroma) (EMAP:28138)
 - renal cortical fibroblasts (EMAP: 31290)
 - resident macrophages of the cortex (syn: renal monocytes of the cortex) (EMAP: 31298)
 - rest of renal cortical interstitium (EMAP: 31306)
 - renal cortical lymphatics (EMAP: 31313)
 - renal cortical nerves (EMAP: 31320)
 - renal cortical vasculature (EMAP:28143)
 - renal cortical arterial system (EMAP:28148)
 - renal cortical venous system (EMAP:28153)
 - renal cortical capillary (EMAP:30038)
 - renal medulla (EMAP:28043)
 - immature loop of Henle (EMAP:30864)
 - straight limb (EMAP: 31019)
 - bend (syn: U-turn) (EMAP: 31023)

renal medullary interstitium (syn: medullary stroma) (EMAP:8241)

- renal medullary fibroblasts (EMAP: 31327)
- resident macrophages of the medulla (syn: renal monocytes of the medulla) (EMAP: 31334)
- rest of renal medullary interstitium (EMAP: 31341)

renal medullary lymphatics (EMAP: 31348)

renal medullary nerves (EMAP: 31355)

renal medullary vasculature (EMAP:28158)

renal medullary arterial system (EMAP:28163)

renal medullary venous system (EMAP:28168)

renal medullary capillary (syn vasa recta) (EMAP:30044)

medullary collecting duct (EMAP:28063)

calyx (EMAP:8229)

pelvis (EMAP:8232)

pelvic urothelial lining (syn: pelvic urothelium) (EMAP:28079)

pelvic smooth muscle (EMAP:28121)

perihilar interstitium (EMAP:28085)

renal artery (EMAP:28381)

smooth muscle layer of renal artery (EMAP:30006)

endothelial layer of renal artery (EMAP:29977)

renal vein (EMAP:28385)

smooth muscle layer of renal vein (EMAP:30022)

endothelial layer of renal vein (EMAP:29965)

ureter (syn: primitive ureter) (EMAP:8234)

urothelium (syn: transitional epithelium) (EMAP:28091)

superficial cellular layer (syn: umbrella cell) (EMAP:28591)

deep cellular layer (syn: basal urothelium) (EMAP:28103)

intermediate cell layer (EMAP:28802)

basal cell layer (EMAP:28807)

ureteral mesenchyme (EMAP:28559)

subepithelial layer (syn: presumptive lamina propria) (EMAP:28565)

ureteral smooth muscle layer (syn: presumptive ureteral smooth muscle layer) (EMAP:28812)

smooth muscle component (EMAP:28815)

interstitium (syn: Cajal cell) (EMAP:30151)

outer layer (syn: presumptive adventitia) (EMAP:28573)

ureteral vasculature (EMAP:30854)

urachus (EMAP:8223)

bladder (EMAP:8219)

epithelium of bladder (syn: urothelium) (EMAP:28603)

epithelium of fundus (EMAP:28609)

epithelium of trigone (EMAP:28615)

epithelium of neck (EMAP:30083)

lamina propria of the bladder (EMAP:30090)

lamina propria of the fundus (EMAP:30104)

lamina propria of the trigone (EMAP:30111)

lamina propria of the neck (EMAP:30118)

muscularis mucosa of bladder (EMAP:28621)

muscularis mucosa of fundus (EMAP:28627)

muscularis mucosa of trigone (EMAP:28633)

muscularis mucosa of neck (EMAP:30139)

detrusor muscle of bladder (EMAP:28639)

detrusor muscle of fundus (EMAP:28645)

detrusor muscle of trigone (EMAP:28651)

detrusor muscle of neck (EMAP:30125)

serosa of bladder (EMAP:28663)

serosa of fundus (EMAP:28669)

serosa of trigone (EMAP:28675)

serosa of neck (EMAP:30132)

adventitia of bladder (EMAP:28827)

adventitia of fundus (EMAP:28832)

adventitia of trigone (EMAP:28837)

adventitia of neck (EMAP:30145)

blood vessels of bladder (EMAP:28681)

urethra of male (EMAP:8274)

pelvic urethra of male (EMAP:28693)

epithelial layer of pelvic urethra of male (EMAP:28699)

mesenchymal layer of pelvic urethra of male (EMAP:28705)
 muscle layer of pelvic urethra of male (EMAP:28711)
 phallic urethra of male (syn: external urethra of male) (EMAP:28717)
 urethral plate of male (EMAP:28723)
urethral fold of male (EMAP:8275)
 urethra of female (EMAP:28749)
 pelvic urethra of female (EMAP:28755)
 epithelial layer (EMAP:28761)
 muscle layer (EMAP:28773)
 mesenchymal layer (EMAP:28767)
 phallic urethra of female (syn: external urethra of female) (EMAP:30918)
 urethral plate of female (EMAP:30925)
 urethral fold of female (EMAP:30928)
 mesentery (EMAP:8224)
 rest of mesentery (EMAP:29613)
 urogenital mesentery (EMAP:8225)
 urorectal septum (EMAP:8243)

GROUP TERMS (TS23):

developing capillary loop nephron (syn; stage III nephron) (GROUP) (EMAP:28508)

capillary loop stage renal corpuscle (syn: renal corpuscle of Stage III nephron) (EMAP:27909)
 associated interstitium of renal corpuscle (EMAP:27927)
 parietal epithelium of renal corpuscle (EMAP:27921)
 presumptive endothelium (EMAP:27939)
 presumptive mesangium (EMAP:27933)
 visceral epithelium (syn:podocyte layer) (EMAP:27915)
 cortical renal tubule (syn:tubular portion of nephron) (EMAP:27999)
 early distal tubule (EMAP:28009)
 anlage of loop of Henle (syn: primitive loop of Henle) (EMAP:31283)
 early proximal tubule (EMAP:28005)
 renal connecting tubule (EMAP:28013)

maturing nephron (syn: stage IV nephron) (GROUP) (EMAP:28487)

maturing renal corpuscle (syn: renal corpuscle of stage IV nephron)(EMAP:27945)
 Bowman's capsule (syn:glomerular capsule) (EMAP:27975)
 parietal epithelium (EMAP:27981)
 urinary space of renal corpuscle (syn:Bowman's space) (EMAP:27987)
 juxtaglomerular arteriole (EMAP:27993)
 maturing glomerular tuft (syn:maturing glomerulus) (EMAP:27951)
 glomerular capillary system (EMAP:27957)
 glomerular mesangium (EMAP:27963)
 visceral epithelium (syn:podocyte layer) (EMAP:27969)
 cortical renal tubule (syn:tubular portion of nephron) (EMAP:27999)
 early distal tubule (EMAP:28009)
 early proximal tubule (EMAP:28005)
 renal connecting tubule (EMAP:28013)
 medullary renal tubule (EMAP: 31416) **GROUP**
 immature loop of Henle (EMAP:30864)
 straight limb (EMAP:28176)
 bend (syn: U-turn) (EMAP:28179)

collecting duct (GROUP) (EMAP:8233)

ureteric tip (syn:ureteric ampulla) (EMAP:27752)
ureteric tree terminal branch excluding tip itself (syn:collecting duct terminal branch) (EMAP 31048)
 ureteric trunk (EMAP: 28496)
 medullary collecting duct (EMAP:28063)
 renal cortical collecting duct (EMAP:28132)

renal interstitium group (GROUP) (EMAP:28520)

associated interstitium (EMAP:27927)

glomerular mesangium (EMAP:27963)
 perihilar interstitium (EMAP:28085)
 nephrogenic interstitium (syn: peripheral blastema) (EMAP:27731)
 presumptive mesangium (EMAP:27933)
 renal cortical interstitium (syn:cortical stroma) (EMAP:28138)
 renal cortical fibroblast (EMAP: 31290)
 resident macrophage of the cortex (syn: renal monocytes of the cortex)
 (EMAP: 31298)
 rest of renal cortical interstitium (EMAP: 31306)
 renal medullary interstitium (syn:medullary stroma) (EMAP:8241)
 renal medullary fibroblast (EMAP: 31327)
 resident macrophage of the medulla (syn: renal monocytes of the medulla)
 (EMAP: 31334)
 rest of renal medullary interstitium (EMAP: 31341)

renal vasculature (GROUP) (EMAP:28460)

glomerular capillary system (EMAP:27957)
 juxtaglomerular arteriole (EMAP:27993)
 presumptive endothelium of renal corpuscle (EMAP:27939)
 renal artery (EMAP:28381)
 endothelial layer (EMAP:29977)
 smooth muscle layer (EMAP:29971)
 renal vein (EMAP:28385)
 endothelial layer (EMAP:29965)
 smooth muscle layer (EMAP:29959)
 renal cortical vasculature (EMAP:28143)
 renal cortical arterial system (EMAP:28148)
 renal cortical venous system (EMAP:28153)
 renal cortical capillaries – (EMAP: 30038)
 renal medullary vasculature (EMAP:28158)
 renal medullary arterial system (EMAP:28163)
 renal medullary venous system (EMAP:28168)
 renal medullary capillaries (EMAP: 30044)

early tubule (GROUP) (EMAP:8239)

renal vesicle (syn: epithelial vesicle; syn: Stage I nephron) EMAP: 27831
 comma-shaped body (EMAP:27837)
 upper limb of comma-shaped body (syn: distal limb of comma-shaped body)
 (EMAP:27843)
 lower limb of comma-shaped body (syn: proximal limb of comma-shaped body)
 (EMAP:27849)
 S-shaped body (syn: Stage II nephron) (EMAP: 27855)
 renal connecting tubule (EMAP: 27867)
 distal segment of S-shaped body (syn:upper limb of S-shaped body) (EMAP:
 27873)
 medial segment of S-shaped body (syn: mid-portion of S-shaped body) (EMAP:
 27879)
 proximal segment of S-shaped body (syn: lower limb of S-shaped body) (EMAP:
 27885)
 visceral epithelium (EMAP: 27987)
 parietal epithelium (EMAP: 27903)

late tubule (GROUP) (EMAP:28529)

capillary loop renal corpuscle (syn: renal corpuscle of Stage III nephron) (EMAP:27909)
 visceral epithelium (syn: podocyte layer) (EMAP: 29815)
 parietal epithelium (EMAP: 27921)
 presumptive mesangium (EMAP: 27933)
 presumptive endothelium of renal corpuscle (EMAP: 27939)
 associated interstitium of renal corpuscle (EMAP: 27927)
 maturing renal corpuscle (syn: renal corpuscle of Stage IV nephron) (EMAP: 27945)
 maturing glomerular tuft (syn: maturing glomerulus) (EMAP: 27951)
 glomerular capillary system (EMAP: 27957)
 glomerular mesangium (EMAP: 27963)
 visceral epithelium (syn: podocyte layer) (EMAP: 27969)

- glomerular basement membrane (EMAP: 30967)
- Bowman's capsule (syn: glomerular capsule) (EMAP: 27975)
 - parietal epithelium (EMAP: 27981)
 - urinary space of renal corpuscle (syn: Bowman's space) (EMAP:27987)
- juxtaglomerular arterioles (EMAP: 27993)
- cortical renal tubule (syn:tubular portion of nephron) (EMAP:27999) **GROUP**
 - early distal tubule (EMAP:28009)
 - anlage of loop of Henle (syn: primitive loop of Henle) (EMAP:31283)
 - early proximal tubule (EMAP:28005)
 - renal connecting tubule (EMAP:28013)
- medullary renal tubule (EMAP: 31416)
 - immature loop of Henle (EMAP:30864)**
 - straight limb (EMAP:28176)
 - bend (syn: U-turn) (EMAP:28179)

TS24 urinary system (16.5dpc)

- urinary system (EMAP:9526)
 - metanephros (syn: kidney) (EMAP:9536)
 - renal capsule (EMAP:9547)
 - nephrogenic zone (EMAP:27725)
 - nephrogenic interstitium (syn: peripheral blastema) (EMAP:27732)
 - cap mesenchyme (syn: condensed mesenchyme) (EMAP:27739)
 - pretubular aggregate (syn: pretubular condensate) (EMAP:27746)
 - ureteric tip (syn: ureteric ampulla) (EMAP:27753)
 - ureteric tree terminal branch (EMAP:31049)
 - renal cortex (EMAP:9546)
 - renal vesicle (syn: stage I nephron, syn: epithelial vesicle) (EMAP:27832)
 - comma-shaped body (EMAP:27838)
 - upper limb of comma-shaped body (syn: distal limb of comma-shaped body) (EMAP:27844)
 - lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) (EMAP:27850)
 - S-shaped body (syn: stage II nephron) (EMAP:27856)
 - renal connecting tubule (EMAP:27868)
 - distal segment of S-shaped body (syn: upper limb of S-shaped body) (EMAP:27874)
 - medial segment of S-shaped body (syn: mid-portion of S-shaped body) (EMAP:27880)
 - proximal segment of S-shaped body (syn: lower limb of S-shaped body) (EMAP:27886)
 - visceral epithelium (EMAP:27898)
 - parietal epithelium (EMAP:27904)
 - capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron) (EMAP:27910)
 - visceral epithelium (syn: podocyte layer) (EMAP:27916)
 - parietal epithelium (EMAP:27922)
 - presumptive mesangium (EMAP:27934)
 - presumptive endothelium of renal corpuscle (EMAP:27940)
 - associated interstitium of renal corpuscle (EMAP:27928)
 - maturing renal corpuscle (syn: renal corpuscle of Stage IV nephron) (EMAP:27946)
 - maturing glomerular tuft (syn: maturing glomerulus) (EMAP:27952)
 - glomerular capillary system (EMAP:27958)
 - glomerular mesangium (EMAP:27964)
 - visceral epithelium (syn: podocyte layer) (EMAP:27970)
 - glomerular basement membrane (EMAP:30968)
 - Bowman's capsule (syn: glomerular capsule) (EMAP:27976)
 - parietal epithelium (EMAP:27982)
 - urinary space of renal corpuscle (syn: Bowman's space) (EMAP:27988)
 - juxtaglomerular arteriole (EMAP:27994)
 - cortical renal tubule (EMAP:9556)**
 - early proximal tubule (EMAP:28006)

anlage of loop of Henle (syn: primitive loop of Henle) (EMAP: 31284)
 early distal tubule (EMAP:28010)
 renal connecting tubule (EMAP:28014)
 cortical collecting duct (EMAP:28133)
 renal cortical interstitium (syn:cortical stroma) (EMAP:28139)
 renal cortical fibroblast (EMAP: 31291)
 resident macrophage of the cortex (syn: renal monocytes of the cortex) (EMAP: 31299)
 rest of renal cortical interstitium (EMAP: 31307)
 renal cortical lymphatics (EMAP: 31314)
 renal cortical nerves (EMAP: 31321)
 renal cortical vasculature (EMAP:28144)
 renal cortical arterial system (EMAP:28149)
 renal cortical venous system (EMAP:28154)
 renal cortical capillary (EMAP:30039)
 renal medulla (EMAP:28044)
 immature loop of Henle (EMAP: 30865)
 straight limb (EMAP: 31020)
 bend (syn: U-turn) (EMAP: 31024)
 renal medullary interstitium (syn: medullary stroma) (EMAP:9551)
 renal medullary fibroblast (EMAP: 31328)
 resident macrophage of the medulla (syn: renal monocytes of the medulla) (EMAP:31335)
 rest of renal medullary interstitium (EMAP: 31342)
 renal medullary lymphatics (EMAP: 31349)
 renal medullary nerves (EMAP: 31356)
 renal medullary vasculature (EMAP:28159)
 renal medullary arterial system (EMAP:28164)
 renal medullary venous system (EMAP:28169)
 renal medullary capillary (EMAP:30045)
 medullary collecting duct (EMAP:28064)
 calyx (EMAP:9539)
 pelvis (EMAP:9542)
 pelvic urothelial lining (syn: pelvic urothelium) (EMAP:28080)
 pelvic smooth muscle (EMAP:28122)
 perihilar interstitium (EMAP:28086)
 perihilar fibroblast (EMAP: 31362)
 resident macrophage of the perihilar interstitium (syn: renal monocytes of the perihilar interstitium) (EMAP: 31368)
rest of perihilar interstitium (EMAP:31374)
 renal artery (EMAP:28382)
 endothelial layer of renal artery (EMAP:29978)
 smooth muscle layer of renal artery (EMAP:30007)
 renal vein (EMAP:28386)
 endothelial layer of renal vein (EMAP:29966)
 smooth muscle layer of renal vein (EMAP:30023)
 ureter (syn: primitive ureter) (EMAP:9544)
 urothelium (syn: transitional epithelium) (EMAP:28092)
 superficial cellular layer (syn: umbrella cell) (EMAP:28592)
 deep cellular layer (syn: basal urothelium) (EMAP:28104)
 intermediate cell layer (EMAP:28803)
 basal cell layer (EMAP:28808)
 ureteral mesenchyme (EMAP:28560)
 subepithelial layer (syn: presumptive lamina propria) (EMAP:28566)
 ureteral smooth muscle layer (syn: presumptive ureteral smooth muscle layer) (EMAP:28813)
 smooth muscle component (EMAP:28816)
 interstitium (syn: Cajal cell) (EMAP:30152)
 outer layer (syn: presumptive adventitia) (EMAP:28574)
 ureteral vasculature (EMAP:30855)
urachus (EMAP:9531)
 bladder (EMAP:9528)
 epithelium of bladder (syn: urothelium) (EMAP:28604)
 epithelium of fundus (EMAP:28610)
 epithelium of trigone (EMAP:28616)
 epithelium of neck (EMAP:30084)

lamina propria of the bladder (EMAP:30091)
 lamina propria of the fundus (EMAP:30105)
 lamina propria of the trigone (EMAP:30112)
 lamina propria of the neck (EMAP:30119)
 muscularis mucosa of bladder (EMAP:28622)
 muscularis mucosa of fundus (EMAP:28628)
 muscularis mucosa of trigone (EMAP:28634)
 muscularis mucosa of neck (EMAP:30140)
 detrusor muscle of bladder (EMAP:28640)
 detrusor muscle of fundus (EMAP:28646)
 detrusor muscle of trigone (EMAP:28652)
 detrusor muscle of neck (EMAP:30126)
 serosa of bladder (EMAP:28664)
 serosa of fundus (EMAP:28670)
 serosa of trigone (EMAP:28676)
 serosa of neck (EMAP:30133)
 adventitia of bladder (EMAP:28828)
 adventitia of fundus (EMAP:28833)
 adventitia of trigone (EMAP:28838)
 adventitia of neck (EMAP:30146)
 blood vessels of bladder (EMAP:28682)
 urethra of male (EMAP:9589)
 pelvic urethra of male (EMAP:9590)
 epithelial layer (EMAP:28700)
 mesenchymal layer (EMAP:28706)
 muscle layer (EMAP:28712)
 phallic urethra of male (syn: external urethra of male) (EMAP:28718)
 urethral plate of male (EMAP:9593)
 urethral fold of male (EMAP:28738)
 urethra of female (EMAP:28750)
 pelvic urethra (EMAP:28756)
 epithelial layer of urethra of female (EMAP:28762)
 muscle layer of urethra of female (EMAP:28774)
 mesenchymal layer of urethra of female (EMAP:28768)
 phallic urethra of female (syn: external urethra of female) (EMAP:30919)
 urethral plate of female (EMAP:30926)
 urethral fold of female (EMAP:30929)
 mesentery (EMAP:9534)
 urogenital mesentery (EMAP:9535)
 rest of mesentery (EMAP:29614)
 urorectal septum (EMAP:9553)

GROUP TERMS (TS24)

developing capillary loop stage nephron (syn: stage III nephron) (GROUP) (EMAP:28509)

capillary loop renal corpuscle (syn:renal corpuscle of the stage III nephron)
 (EMAP:27910)

associated interstitium of renal corpuscle (EMAP:27928)
 parietal epithelium (EMAP:27922)
 presumptive endothelium of renal corpuscle (EMAP:27940)
 presumptive mesangium (EMAP:27934)
 visceral epithelium (syn:podocyte layer) (EMAP:27916)

cortical renal tubule (syn:tubular portion of nephron) (EMAP:9556)

early distal tubule (EMAP:28010)
 anlage of loop of Henle (syn:primitive loop of Henle) (EMAP: 31284)
 early proximal tubule (EMAP:28006)
 renal connecting tubule (EMAP:28014)

maturing nephron (syn: stage IV nephron) (GROUP) (EMAP:28488)

maturing renal corpuscle (EMAP:27946)
 Bowman's capsule (syn:glomerular capsule) (EMAP:27976)
 parietal epithelium (EMAP:27982)
 urinary space of renal corpuscle (syn: Bowman's space) (EMAP:27988)
 juxtaglomerular arteriole (EMAP:27994)
 maturing glomerular tuft (syn:maturing glomerulus) (EMAP:27952)

glomerular capillary system (EMAP:27958)
glomerular mesangium (EMAP:27964)
visceral epithelium (syn:podocyte layer) (EMAP:27970)

cortical renal tubule (EMAP:9556)

early distal tubule (EMAP:28010)
early proximal tubule (EMAP:28006)
renal connecting tubule (EMAP:28014)
medullary renal tubule (EMAP: 31417) **GROUP**
immature loop of Henle (EMAP:28174)
straight limb (EMAP:28177)
bend (U-turn) (EMAP:28180)
rest of medullary renal tubule (EMAP: 31419)

collecting duct (syn:ureteric tree) (GROUP) (EMAP:28410)

ureteric tip (EMAP:27753) (ureteric ampulla)
ureteric tree terminal branch (EMAP:31049)
ureteric trunk (EMAP: 28497)
medullary collecting duct (EMAP:28064)
renal cortical collecting duct (EMAP:28133)

renal interstitium group (GROUP) (EMAP:28521)

associated interstitium (EMAP:27928)
glomerular mesangium (EMAP:27964)
perihilar interstitium (EMAP:28086)
nephrogenic interstitium (syn: peripheral blastema) (EMAP:27732)
presumptive mesangium (EMAP:27934)
renal cortical interstitium (syn:cortical stroma) (EMAP:28139)
renal cortical fibroblasts (EMAP: 31291)
resident macrophages of the cortical interstitium (syn: renal monocytes of the cortex) (EMAP: 31299)
rest of renal cortical interstitium (EMAP: 31307)
renal medullary interstitium (EMAP:28068) (medullary stroma)
renal medullary fibroblasts (EMAP: 31328)
resident macrophages of the medulla (syn: renal macrophages of the medulla) (EMAP:31335)
rest of renal medullary interstitium (EMAP: 31342)
perihilar interstitium (EMAP:28068)
perihilar fibroblasts (EMAP: 31362)
resident macrophages of the perihilar interstitium (syn: renal macrophages of the perihilar interstitium) (EMAP: 31368)
rest of renal perihilar interstitium (EMAP:31374)

renal vasculature (GROUP) (EMAP:28461)

glomerular capillary system (EMAP:27958)
juxtaglomerular arteriole (EMAP:27994)
presumptive endothelium (EMAP:27940)
renal artery (EMAP:28382)
endothelial layer (EMAP:29978)
smooth muscle layer (EMAP:29972)
renal vein (EMAP:28386)
endothelial layer (EMAP:29966)
smooth muscle layer (EMAP:29960)
renal cortical vasculature (EMAP:28144)
renal cortical arterial system (EMAP:28149)
renal cortical venous system (EMAP:28154)
renal cortical capillaries (EMAP:30038)
renal medullary vasculature (EMAP:28159)
renal medullary arterial system (EMAP:28164)
renal medullary venous system (EMAP:28169)
renal medullary capillaries (EMAP:30044)

TS25 urinary system (17.5dpc)

- urinary system (EMAP:10886)
 - metanephros (syn: kidney) (EMAP:10896)
 - renal capsule (EMAP:10907)**
 - nephrogenic zone (EMAP:27726)
 - nephrogenic interstitium (syn: peripheral blastema) (EMAP:27733)
 - cap mesenchyme (syn: condensed mesenchyme) (EMAP:27740)
 - pretubular aggregate (syn: pretubular condensate) (EMAP:27747)
 - ureteric tip (syn: ureteric ampulla) (EMAP:27754)
 - ureteric tree terminal branch (EMAP: 31050)
 - renal cortex (EMAP:10906)
 - renal vesicle (syn: stage I nephron, syn: epithelial vesicle) (EMAP:27833)
 - comma-shaped body (EMAP:27839)
 - upper limb of comma-shaped body (syn: distal limb of comma-shaped body) (EMAP:27845)
 - lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) (EMAP:27851)
 - S-shaped body (syn: stage II nephron) (EMAP:27857)
 - renal connecting tubule (EMAP:27869)
 - distal segment of S-shaped body (syn: upper limb of S-shaped body) (EMAP:27875)
 - medial segment of S-shaped body (syn: mid-portion of S-shaped body) (EMAP:27881)
 - proximal segment of S-shaped body (syn: lower limb of S-shaped body) (EMAP:27887)
 - visceral epithelium (EMAP:27899)
 - parietal epithelium (EMAP:27905)
 - capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron) (EMAP:27911)
 - visceral epithelium (syn: podocyte layer) (EMAP:27917)
 - parietal epithelium (EMAP:27923)
 - associated interstitium of renal vesicle (EMAP:27929)
 - presumptive mesangium (EMAP:27935)
 - presumptive endothelium of renal corpuscle (EMAP:27941)
 - maturing renal corpuscle (syn: renal corpuscle of Stage IV nephron) (EMAP:27947)
 - maturing glomerular tuft (syn: maturing glomerulus) (EMAP:27953)
 - glomerular capillary system (EMAP:27959)
 - glomerular mesangium (EMAP:27965)
 - visceral epithelium (syn: podocyte layer) (EMAP:27971)
 - glomerular basement membrane (EMAP:30969)
 - Bowman's capsule (syn: glomerular capsule) (EMAP:27977)
 - parietal epithelium (EMAP:27983)
 - urinary space of renal corpuscle (syn: Bowman's space) (EMAP:27989)
 - glomerular mesangium of Bowman's capsule (EMAP: 30035)
 - juxtaglomerular arteriole (EMAP:27995)
 - afferent arteriole (EMAP:28231)
 - efferent arteriole (EMAP:28234)
 - mature renal corpuscle (syn: Malpighian corpuscle) (EMAP:28237)
 - glomerular tuft (syn: glomerulus) (EMAP:28240)
 - glomerular capillary system (EMAP:28246)
 - glomerular mesangium (EMAP:28249)
 - glomerular basement membrane (EMAP:28252)
 - visceral epithelium (syn: podocyte layer) (EMAP:28255)
 - Bowman's capsule (syn: glomerular capsule) (EMAP:28258)
 - parietal epithelium (EMAP:28261)
 - urinary space of renal corpuscle (syn: Bowman's space) (EMAP:28264)
 - afferent arteriole (EMAP:28267)
 - part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell) (EMAP:28270)
 - rest of afferent arteriole (EMAP:28273)
 - efferent arteriole (EMAP:28276)
 - extraglomerular mesangium (EMAP:28279)
 - cortical renal tubule (EMAP:10916)**

- renal proximal tubule (EMAP:28282)
 - early proximal tubule (EMAP:28285)
 - renal proximal convoluted tubule (syn: first convoluted tubule) (EMAP:28288)
- anlage of loop of Henle (syn: primitive loop of Henle) (EMAP:31285)
- renal distal tubule (EMAP:28388)
 - early distal tubule (EMAP:28391)
 - distal convoluted tubule (syn: second convoluted tubule) (EMAP:28394)
 - distal straight tubule (syn: thick ascending limb) (EMAP:28397)
 - macula densa (EMAP:28400)
 - postmacula segment of distal straight tubule (EMAP:28403)
 - premacula segment of distal straight tubule (EMAP:31380)
- renal connecting tubule (EMAP:28015)
- renal cortical interstitium (syn:cortical stroma) (EMAP:28140)
 - renal cortical fibroblast (EMAP:31292)
 - resident macrophage of the cortex (syn: renal monocytes of the cortex) (EMAP:31300)
 - rest of renal cortical interstitium (EMAP:31308)
- renal cortical lymphatics (EMAP:31315)
- renal cortical nerves (EMAP:31322)
- renal cortical vasculature (EMAP:28145)
 - renal cortical arterial system (EMAP:28150)
 - interlobular artery (EMAP:28213)
 - arcuate artery (EMAP:28216)
 - renal cortical venous system (EMAP:28155)
 - interlobular vein (EMAP:28219)
 - arcuate vein (EMAP:28222)
 - renal cortical capillary (EMAP:30040)
- cortical collecting duct (EMAP:28134)
- renal medulla (EMAP:28045)
 - outer medulla (EMAP:28311)
 - loop of Henle, outer medullary portion (EMAP:28323)
 - thin descending limb (EMAP:28326)
 - thin ascending limb (syn: ascending thin limb) (EMAP:28329)
 - proximal straight tubule (syn: segment 3 of proximal tubule; syn: pars recta) (EMAP:28863)
 - premacula segment of distal straight tubule (syn: thick ascending limb) (EMAP:28332)
 - outer medullary interstitium (EMAP:28338)
 - outer medullary fibroblast (EMAP:31385)
 - resident macrophage of the outer medulla (syn: renal monocytes of the outer medulla) (EMAP:31390)
 - rest of outer medullary interstitium (EMAP:31395)
 - outer medullary collecting duct (EMAP:28347)
 - inner medulla (syn: papilla) (EMAP:28350)
 - loop of Henle, inner medullary portion (EMAP:28353)
 - thin descending limb (EMAP:28356)
 - bend (syn: U-turn) (EMAP:28359)
 - thin ascending limb (syn: ascending thin limb) (EMAP:28362)
 - inner medullary interstitium (syn: papillary interstitium) (EMAP:28365)
 - inner medullary fibroblast (EMAP:31400)
 - resident macrophage of the inner medulla (syn: renal monocytes of the inner medulla) (EMAP:31405)
 - rest of inner medullary interstitium (EMAP:31410)
 - inner medullary collecting duct (syn: papillary collecting duct) (EMAP:28371)
 - renal medullary vasculature (EMAP:28160)
 - renal medullary arterial system (EMAP:28165)
 - renal medullary venous system (EMAP:28170)
 - renal medullary capillary (syn: vasa recta) (EMAP:30046)
- calyx (EMAP:10899)

- major (EMAP:10901)
- minor (EMAP:10900)
- pelvis (EMAP:10902)
 - pelvic urothelial lining (syn: pelvic urothelium) (EMAP:28081)
 - pelvic smooth muscle (EMAP:28123)
 - perihilar interstitium (EMAP:28087)
 - perihilar fibroblast (EMAP: 31363)
 - resident macrophage of perihilar interstitium (syn: renal monocytes of the perihilar interstitium) (EMAP: 31369)
 - rest of perihilar interstitium (EMAP: 31375)
- renal artery (EMAP:28374)
 - endothelial layer of renal artery (EMAP:29979)
 - smooth muscle layer of renal artery (EMAP:30008)
- renal vein (EMAP:28377)
 - endothelial layer of renal vein (EMAP:29967)
 - smooth muscle layer of renal vein (EMAP:30024)
- ureter (syn: primitive ureter) (EMAP:10904)**
 - urothelium (syn: transitional epithelium) (EMAP:28093)
 - superficial cellular layer (syn: umbrella cell) (EMAP:28593)
 - deep cellular layer (syn: basal urothelium) (EMAP:28105)
 - intermediate cell layer (EMAP:28804)
 - basal cell layer (EMAP:28809)
 - lamina propria (EMAP:28842)
 - ureteral smooth muscle layer (EMAP:28845)
 - smooth muscle component (EMAP:28848)
 - interstitium (syn: Cajal cell) (EMAP:28851)
 - adventitia of ureter (EMAP:28118)
 - ureteral vasculature (EMAP:30856)
- urachus (EMAP:10891)**
- bladder (EMAP:10888)
 - epithelium of bladder (syn: urothelium) (EMAP:28605)
 - epithelium of fundus (EMAP:28611)
 - epithelium of trigone (EMAP:28617)
 - epithelium of neck (EMAP:30085)
 - lamina propria of the bladder (EMAP:30092)
 - lamina propria of the fundus (EMAP:30106)
 - lamina propria of the trigone (EMAP:30113)
 - lamina propria of the neck (EMAP:30120)
 - muscularis mucosa of bladder (EMAP:28623)
 - muscularis mucosa of fundus (EMAP:28629)
 - muscularis mucosa of trigone (EMAP:28635)
 - muscularis mucosa of neck (EMAP:30141)
 - detrusor muscle of bladder (EMAP:28641)
 - detrusor muscle of fundus (EMAP:28647)
 - detrusor muscle of trigone (EMAP:28653)
 - detrusor muscle of neck (EMAP:30127)
 - serosa of bladder (EMAP:28665)
 - serosa of fundus (EMAP:28671)
 - serosa of trigone (EMAP:28677)
 - serosa of neck (EMAP:30134)
 - adventitia of bladder (EMAP:28829)
 - adventitia of fundus (EMAP:28834)
 - adventitia of trigone (EMAP:28839)
 - adventitia of neck (EMAP:30147)
 - blood vessels of bladder (EMAP:28683)
- urethra of male (EMAP:10949)**
 - pelvic urethra of male (EMAP:10950)**
 - epithelial layer of pelvic urethra of male (EMAP:28701)
 - mesenchymal layer of pelvic urethra of male (EMAP:28707)
 - muscle layer of pelvic urethra of male (EMAP:28713)
 - phallic urethra of male (syn: penile urethra of male) (EMAP:28719)
 - epithelial layer of phallic urethra of male (EMAP:28854)
 - mesenchymal layer of phallic urethra of male (EMAP:28857)
 - muscle layer of phallic urethra of male (EMAP:28860)
- urethra of female (EMAP:28751)
 - pelvic urethra of female (EMAP:28757)
 - epithelial layer (EMAP:28763)

mesenchymal layer (EMAP:28769)
 muscle layer (EMAP:28775)
 phallic urethra of female (syn: external urethra of female) (EMAP:30920)
 epithelial layer (EMAP:30931)
 mesenchymal layer (EMAP:30935)
 muscle layer (EMAP:30939)
 mesentery (EMAP:10894)
 urogenital mesentery (EMAP:10895)
 rest of mesentery (EMAP:29615)
 urorectal septum (EMAP:10913)

GROUP TERMS (TS25)

developing capillary loop stage nephron (syn: stage III nephron) (GROUP) (EMAP:28510)

capillary loop renal corpuscle (syn:renal corpuscle of the stage III nephron)
 (EMAP:27911)
 associated interstitium (EMAP:27929)
 parietal epithelium (EMAP:27923)
 presumptive endothelium (EMAP:27941)
 presumptive mesangium (EMAP:27935)
 visceral epithelium (syn:podocyte layer) (EMAP:27917)
cortical renal tubule (syn:tubular portion of nephron) (EMAP:10916)
 renal connecting tubule (EMAP:28015)
 early distal tubule (EMAP:28391)
 anlage of loop of Henle (syn: primitive loop of Henle) (EMAP:31285)
 early proximal tubule (EMAP:28285)

maturing nephron (syn: stage IV nephron) (GROUP) (EMAP:28489)

maturing renal corpuscle (syn:renal corpuscle of the stage IV nephron) (EMAP:27947)
 Bowman's capsule (syn: glomerular capsule) (EMAP:27977)
 parietal epithelium (EMAP:27983)
 urinary space of renal corpuscle (syn: Bowman's space) (EMAP:27989)
 juxtaglomerular arteriole (EMAP:27995)
 afferent arteriole (EMAP:28231)
 efferent arteriole (EMAP:28234)
 maturing glomerular tuft (syn: maturing glomerulus) (EMAP:27953)
 glomerular capillary system (EMAP:27959)
 glomerular mesangium (EMAP:27965)
 visceral epithelium (syn: podocyte layer) (EMAP:27971)
cortical renal tubule (syn:tubular portion of nephron) (EMAP:10916)
renal connecting tubule (EMAP:28015)
early distal tubule (EMAP:28391)
anlage of loop of Henle (syn: primitive loop of Henle) (EMAP:31285)
early proximal tubule (EMAP:28285)

mature nephron (GROUP) (EMAP:28492)

mature renal corpuscle (syn:Malpighian corpuscle) (EMAP:28237)
 afferent arteriole (EMAP:28267)
 part of afferent arteriole forming the juxtaglomerular complex
 (EMAP:28270)
 rest of afferent arteriole (EMAP:28273)
 Bowman's capsule (syn:glomerular capsule) (EMAP:28258)
 parietal epithelium (EMAP:28261)
 urinary space of renal corpuscle (syn: Bowman's space) (EMAP:28264)
 efferent arteriole (EMAP:28276)
 extraglomerular mesangium (EMAP:28279)
 glomerular tuft (syn:glomerulus) (EMAP:28240)
 glomerular basement membrane (EMAP:28252)
 glomerular capillary system (EMAP:28246)
 glomerular mesangium (EMAP:28249)
 visceral epithelium (syn:podocyte layer) (EMAP:28255)
cortical renal tubule (syn:tubular portion of nephron) (EMAP:10916)
renal connecting tubule (EMAP:28015)
early distal tubule (EMAP:28391)

anlage of loop of Henle (syn: primitive loop of Henle) (EMAP:31285)
 early proximal tubule (EMAP:28285)

loop of Henle (EMAP:31496) **GROUP**

loop of Henle, outer medullary portion (EMAP:28323)
 thin descending limb (EMAP:28326)
 thin ascending limb (syn: ascending thin limb) (EMAP:28329)
 proximal straight tubule (syn: segment 3 of proximal tubule; syn: pars recta) (EMAP:28863)
 premacula segment of distal straight tubule within medulla (syn: thick ascending limb) (EMAP:28332)
 loop of Henle, inner medullary portion (EMAP:28353)
 thin descending limb (EMAP:28356)
 bend (syn: U-turn) (EMAP:28359)
 thin ascending limb (syn: ascending thin limb) (EMAP:28362)

juxtaglomerular complex (GROUP) (EMAP:30450)

extraglomerular mesangium (EMAP: 28279)
 macula densa (EMAP: 28400)
 part of the afferent arteriole forming the juxtaglomerular complex (EMAP: 28270)

collecting duct (syn:ureteric tree)(GROUP) (EMAP:28411)

ureteric tip (syn:ureteric ampulla) (EMAP:27754)
 ureteric tree terminal branch (collecting duct terminal branch) (EMAP:31050)
 renal cortical collecting duct (EMAP:28134)
 outer medullary collecting duct (EMAP:28347)
 inner medullary collecting duct (syn: papillary collecting duct) (EMAP:28371)

renal interstitium group (GROUP) (EMAP:28522)

associated interstitium (EMAP:27929)
 extraglomerular mesangium (EMAP:28279)
 glomerular mesangium (EMAP:27965)
 renal cortical interstitium (syn:cortical stroma) (EMAP:28140)
 renal cortical fibroblasts (EMAP: 31292)
 resident macrophages of the cortex (EMAP: 31300)
 rest of cortical interstitium (EMAP: 31308)
 outer medullary interstitium (EMAP:28338)
 outer medullary fibroblast (EMAP: 31385)
 resident macrophage of the outer medulla (EMAP: 31390)
 rest of outer medullary interstitium (EMAP: 31395)
 inner medullary interstitium (syn: papillary interstitium) (EMAP:28365)
 inner medullary fibroblast (EMAP: 31400)
 resident macrophages of the inner medulla (EMAP: 31405)
 rest of inner medullary interstitium (EMAP: 31410)
 perihilar interstitium (EMAP:28087)
 perihilar fibroblast (EMAP: 31363)
 resident macrophage of the perihilar interstitium (EMAP: 31369)
 rest of perihilar interstitium (EMAP: 31375)
 nephrogenic interstitium (syn: peripheral blastema) (EMAP:27733)
 presumptive mesangium (EMAP:27935)

renal vasculature (GROUP) (EMAP:28462)

glomerular capillary system (EMAP:27959)
 juxtaglomerular arteriole (EMAP:27995)
 afferent arteriole (EMAP:28231)
 efferent arteriole (EMAP:28234)
 presumptive endothelium (EMAP:27941)
 renal artery (EMAP:28374)
 endothelial layer (EMAP:29979)
 smooth muscle layer (EMAP:29973)
 renal vein (EMAP:28377)
 endothelial layer (EMAP:29967)
 smooth muscle layer (EMAP:29961)
 renal cortical vasculature (EMAP:28145)

- renal cortical arterial system (EMAP:28150)
 - interlobular artery (EMAP:28213)
 - arcuate artery (EMAP:28216)
- renal cortical venous system (EMAP:28155)
 - interlobular vein (EMAP:28219)
 - arcuate vein (EMAP:28222)
- renal cortical capillaries (EMAP: 30040)
- renal medullary vasculature (EMAP:28160)
 - renal medullary arterial system (EMAP:28165)
 - renal medullary venous system (EMAP:28170)
 - renal medullary capillary (syn:vasa recta) (EMAP: 30046)

large blood vessels (EMAP:31465)

- renal artery (EMAP: 10108)
- renal vein (EMAP: 13092)
- arcuate vein (EMAP:28222)
- interlobular artery (EMAP:28213)
- interlobular vein (EMAP:28219)
- arcuate artery (EMAP: 28216)

small blood vessels (EMAP: 31472)

- renal cortical capillary (EMAP:30040)
- efferent arteriole (EMAP:28276)
- renal medullary arterial system (EMAP:28165)
- afferent arteriole (EMAP: 28267)
- glomerular capillary system (EMAP: 28246)
- renal medullary venous system (EMAP: 28170)
- renal medullary capillary (syn:vasa recta) (EMAP:30046)
- glomerular capillary system (EMAP: 27959)

TS26 renal/urinary system (18.5dpc)

- urinary system (EMAP:12246)
 - metanephros (syn:kidney) (EMAP:12256)
 - renal capsule (EMAP:12267)
 - nephrogenic zone (EMAP:27727)
 - nephrogenic interstitium (syn: peripheral blastema) (EMAP:27734)
 - cap mesenchyme (syn: condensed mesenchyme) (EMAP:27741)
 - pretubular aggregate (syn: pretubular condensate) (EMAP:27748)
 - ureteric tip (syn: ureteric ampulla) (EMAP:27755)
 - ureteric tree terminal branch (EMAP: 31051)
 - renal cortex (EMAP:12266)
 - renal vesicle (syn: stage I nephron, syn:epithelial vesicle,) (EMAP:27834)
 - comma-shaped body (EMAP:27840)
 - upper limb of comma-shaped body (syn: distal limb of comma-shaped body) (EMAP:27846)
 - lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) (EMAP:27852)
 - S-shaped body (syn: stage II nephron) (EMAP:27858)
 - renal connecting tubule (EMAP:27870)
 - distal segment of S-shaped body (syn:upper limb of S-shaped body) (EMAP:27876)
 - medial segment of S-shaped body (syn: mid-portion of S-shaped body) (EMAP:27882)
 - proximal segment of S-shaped body (syn: lower limb of S-shaped body) (EMAP:27888)
 - visceral epithelium (EMAP:27900)
 - parietal epithelium (EMAP:27906)
 - capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron) (EMAP:27912)
 - visceral epithelium (syn: podocyte layer) (EMAP:27918)
 - parietal epithelium (EMAP:27924)
 - associated interstitium of renal corpuscle (EMAP:27930)

presumptive mesangium (EMAP:27936)
 presumptive endothelium of renal corpuscle (EMAP:27942)
 maturing renal corpuscle (syn: renal corpuscle of Stage IV nephron) (EMAP:27948)
 maturing glomerular tuft (syn: maturing glomerulus) (EMAP:27954)
 glomerular capillary system (EMAP:27960)
 glomerular mesangium (EMAP:27966)
 visceral epithelium (syn: podocyte layer) (EMAP:27972)
 glomerular basement membrane (EMAP: 30970)
 Bowman's capsule (syn: glomerular capsule) (EMAP:27978)
 parietal epithelium (EMAP:27984)
 urinary space of renal corpuscle (syn: Bowman's space) (EMAP:27990)
 juxtaglomerular arteriole (EMAP:27996)
 afferent arteriole (EMAP:28232)
 efferent arteriole (EMAP:28235)
 mature renal corpuscle (syn: Malpighian corpuscle) (EMAP:28238)
 glomerular tuft (syn: glomerulus) (EMAP:28241)
 glomerular capillary system (EMAP:28247)
 glomerular mesangium (EMAP:28250)
 glomerular basement membrane (EMAP:28253)
 visceral epithelium (syn: podocyte layer) (EMAP:28256)
 Bowman's capsule (syn: glomerular capsule) (EMAP:28259)
 parietal epithelium (EMAP:28262)
 urinary space of renal corpuscle (syn: Bowman's space) (EMAP:28265)
 afferent arteriole (EMAP:28268)
 part of the afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cells) (EMAP:28271)
 rest of afferent arteriole (EMAP:28274)
 efferent arteriole (EMAP:28277)
 extraglomerular mesangium (EMAP:28280)
cortical renal tubule (syn: tubular portion of nephron) (EMAP:12276)
 renal proximal tubule (EMAP:28283)
 early proximal tubule (EMAP:28286)
 renal proximal convoluted tubule (syn: first convoluted tubule) (EMAP:28289)
 anlage of loop of Henle (syn: primitive loop of Henle) (EMAP: 31286)
 renal distal tubule (EMAP:28389)
 early distal tubule (EMAP:28392)
 distal convoluted tubule (syn: second convoluted tubule) (EMAP:28395)
 distal straight tubule (syn: thick ascending limb) (EMAP:28398)
 macula densa (EMAP:28401)
 postmacula segment of distal straight tubule (EMAP:28404)
 premacula segment of distal straight tubule (EMAP:31381)
 renal connecting tubule (EMAP:28016)
 renal cortical interstitium (syn:cortical stroma) (EMAP:28141)
 renal cortical fibroblasts (EMAP: 31293)
 resident macrophages of the cortex (syn: renal monocytes of the cortex) (EMAP: 31301)
 rest of renal cortical interstitium (EMAP: 31309)
 renal cortical lymphatics (EMAP: 31316)
 renal cortical nerves (EMAP: 31323)
 renal cortical vasculature (EMAP:28146)
 renal cortical arterial system (EMAP:28151)
 interlobular artery (EMAP:28214)
 arcuate artery (EMAP:28217)
 renal cortical venous system (EMAP:28156)
 interlobular vein (EMAP:28220)
 arcuate vein (EMAP:28223)
 renal cortical capillary (EMAP:30041)
 cortical collecting duct (EMAP:28135)

- renal medulla (EMAP:13155)
 - outer medulla (EMAP:28312)
 - loop of Henle, outer medullary portion (EMAP:28324)
 - thin descending limb (EMAP:28327)
 - thin ascending limb (syn: ascending thin limb) (EMAP:28330)**
 - proximal straight tubule (syn: segment 3 of proximal tubule; pars recta) (EMAP:28864)
 - premacula segment of distal straight tubule (syn: thick ascending limb) (EMAP:31381)**
 - outer medullary interstitium (EMAP:28339)
 - outer medullary fibroblast (EMAP: 31386)
 - resident macrophage of the outer medulla (syn: renal monocytes of the outer medulla) (EMAP: 31391)
 - rest of outer medullary interstitium (EMAP: 31396)
 - outer medullary collecting duct (EMAP:28348)
 - inner medulla (syn: papilla) (EMAP:28351)
 - loop of Henle, inner medullary portion (EMAP:28354)
 - thin descending limb (EMAP:28357)
 - bend (syn: U-turn) (EMAP:28360)
 - thin ascending limb (syn: ascending thin limb) (EMAP:28330)**
 - inner medullary interstitium (syn: papillary interstitium) (EMAP:28366)
 - inner medullary fibroblast (EMAP: 31401)
 - resident macrophage of the inner medulla (syn: renal monocytes of the inner medulla) (EMAP: 31406)
 - rest of inner medullary interstitium (EMAP: 31411)
 - inner medullary collecting duct (syn: papillary collecting duct) (EMAP:28372)
 - renal medullary lymphatics (EMAP: 31351)
 - renal medullary nerves (EMAP: 31358)
 - renal medullary vasculature (EMAP:28161)
 - renal medullary arterial system (EMAP:28166)
 - renal medullary venous system (EMAP:28171)
 - renal medullary capillary (syn: vasa recta) (EMAP:30047)
 - calyx (EMAP:12259)
 - major (EMAP:12261)
 - minor (EMAP:12260)
 - pelvis (EMAP:12262)
 - pelvic urothelial lining (syn: pelvic urothelium) (EMAP:28082)
 - pelvic smooth muscle (EMAP:28124)
 - perihilar interstitium (EMAP:28088)
 - perihilar fibroblast (EMAP: 31364)
 - resident macrophage of perihilar interstitium (syn: renal monocytes of the perihilar interstitium) (EMAP 31370)
 - rest of perihilar interstitium (EMAP: 31376)
 - renal artery (EMAP:28375)
 - endothelial layer of renal artery (EMAP:29980)
 - smooth muscle layer of renal artery (EMAP:30009)
 - renal vein (EMAP:28378)
 - endothelial layer of renal vein (EMAP:29968)
 - smooth muscle layer of renal vein (EMAP:30025)
 - ureter (syn: primitive ureter) (EMAP:12264)
 - urothelium (syn: transitional epithelium) (EMAP:28094)
 - superficial cellular layer (syn: umbrella cell) (EMAP:28594)
 - deep cellular layer (syn: basal epithelium) (EMAP:28106)
 - intermediate cell layer (EMAP:28805)
 - basal cell layer (EMAP:28810)
 - lamina propria (EMAP:28843)
 - ureteral smooth muscle layer (EMAP:28846)
 - smooth muscle component (EMAP:28849)
 - interstitium (syn: Cajal cell) (EMAP:28852)
 - adventitia of ureter (EMAP:28119)
 - ureteral vasculature (EMAP:30857)
 - urachus (EMAP:12251)**
 - bladder (EMAP:12248)
 - epithelium of the bladder (syn: urothelium) (EMAP:28606)
 - epithelium of fundus (EMAP:28612)

epithelium of trigone (EMAP:28618)
 epithelium of neck (EMAP:30086)
 lamina propria of the bladder (EMAP:30093)
 lamina propria of the fundus (EMAP:30107)
 lamina propria of the trigone (EMAP:30114)
 lamina propria of the neck (EMAP:30121)
 muscularis mucosa of bladder (EMAP:28624)
 muscularis mucosa of fundus (EMAP:28630)
 muscularis mucosa of trigone (EMAP:28636)
 muscularis mucosa of neck (EMAP:30142)
 detrusor muscle of bladder (EMAP:28642)
 detrusor muscle of fundus (EMAP:28648)
 detrusor muscle of trigone (EMAP:28654)
 detrusor muscle of neck (EMAP:30128)
 serosa of bladder (EMAP:28666)
 serosa of fundus (EMAP:28672)
 serosa of trigone (EMAP:28678)
 serosa of neck (EMAP:30135)
 adventitia of bladder (EMAP:28830)
 adventitia of fundus (EMAP:28835)
 adventitia of trigone (EMAP:28840)
 adventitia of neck (EMAP:30148)
 blood vessels of bladder (EMAP:28684)
urethra of male (EMAP:12309)
pelvic urethra of male (EMAP:12310)
 epithelial layer of pelvic urethra of male (EMAP:28702)
 mesenchymal layer of pelvic urethra of male (EMAP:28708)
 muscle layer of pelvic urethra of male (EMAP:28714)
 phallic urethra of male (syn: penile urethra) (EMAP:28720)
 epithelial layer of phallic urethra of male (EMAP:28855)
 mesenchymal layer of phallic urethra of male (EMAP:28858)
 muscle layer of phallic urethra of male (EMAP:28861)
 urethra of female (EMAP:28752)
 pelvic urethra of female (EMAP:28758)
 epithelial layer (EMAP:28764)
 mesenchymal layer (EMAP:28770)
 muscle layer (EMAP:28776)
 phallic urethra of female (syn: external urethra of female) (EMAP:30921)
 epithelial layer (EMAP:30932)
 mesenchymal layer (EMAP:30936)
 muscle layer (EMAP:30940)
 mesentery (EMAP:12254)
 urogenital mesentery (EMAP:12255)
 rest of mesentery (EMAP:29616)
 urorectal septum (EMAP:12273)

GROUP TERMS (TS26)

developing capillary loop stage nephron (syn: stage III nephron) (GROUP) (EMAP:28511)

capillary loop renal vesicle (syn:renal vesicle of the stage III nephron) (EMAP:27912)
 associated interstitium (EMAP:27930)
 parietal epithelium (EMAP:27924)
 presumptive endothelium (EMAP:27942)
 presumptive mesangium (EMAP:27936)
 visceral epithelium (syn:podocyte layer) (EMAP:27918)
cortical renal tubule (syn:tubular portion of nephron) (EMAP:12276)
 renal connecting tubule (EMAP:28016)
 early distal tubule (EMAP:28392)
 anlage of loop of Henle (syn:primitive loop of Henle) (EMAP: 31286)
 early proximal tubule (EMAP:28286)

maturing nephron (syn: stage IV nephron (GROUP) (EMAP:28490)

maturing renal corpuscle (syn:renal corpuscle of the stage IV nephron) (EMAP:27948)

- Bowman's capsule (syn:glomerular capsule) (EMAP:27978)
 - parietal epithelium (EMAP:27984)
 - urinary space of renal corpuscle (syn:Bowman's space) (EMAP:27990)
- juxtaglomerular arteriole (EMAP:27996)
 - afferent arteriole (EMAP:28232)
 - efferent arteriole (EMAP:28235)
- maturing glomerular tuft (syn:maturing glomerulus) (EMAP:27954)
 - glomerular capillary system (EMAP:27960)
 - glomerular mesangium (EMAP:27966)
 - visceral epithelium (syn:podocyte layer) (EMAP:27972)
- cortical renal tubule (syn:tubular portion of nephron) (EMAP:12276)**
- renal connecting tubule (EMAP:28016)
- renal distal tubule (EMAP:28389)
 - distal convoluted tubule (syn:second convoluted tubule) (EMAP:28395)
 - distal straight tubule (syn:thick ascending limb) (EMAP:28398)
 - macula densa (EMAP:28401)
 - postmacula segment of distal straight tubule (EMAP:28404)
 - premacula segment of distal straight tubule (EMAP:31381)**
 - early distal tubule (EMAP:28392)
- renal proximal tubule (EMAP:28283)
 - early proximal tubule (EMAP:28286)
 - renal proximal convoluted tubule (syn:first convoluted tubule) (EMAP:28289)

mature nephron (GROUP) (EMAP:28493)

mature renal corpuscle (syn:Malpighian corpuscle) (EMAP:28238)

- afferent arteriole (EMAP:28268)
 - part of afferent arteriole forming the juxtaglomerular complex (EMAP:28271)
 - rest of afferent arteriole (EMAP:28274)
- Bowman's capsule (syn:glomerular capsule) (EMAP:28259)
 - parietal epithelium (EMAP:28262)
 - urinary space of renal corpuscle (syn:Bowman's space) (EMAP:28265)
- efferent arteriole (EMAP:28277)
- extraglomerular mesangium (EMAP:28280)
- glomerular tuft (syn:glomerulus) (EMAP:28241)
 - glomerular basement membrane (EMAP:28253)
 - glomerular capillary system (EMAP:28247)
 - glomerular mesangium (EMAP:28250)
 - visceral epithelium (syn:podocyte layer) (EMAP:28256)
- cortical renal tubule (syn:tubular portion of nephron) (EMAP:12276)**
- renal connecting tubule (EMAP:28016)
- renal distal tubule (EMAP:28389)
 - distal convoluted tubule (syn:second convoluted tubule) (EMAP:28395)
 - distal straight tubule (syn:thick ascending limb) (EMAP:28398)
 - macula densa (EMAP:28401)
 - postmacula segment of distal straight tubule (EMAP:28404)
 - premacula segment of distal straight tubule (EMAP:31381)**
- renal proximal tubule (EMAP:28283)
 - renal proximal convoluted tubule (syn:first convoluted tubule) (EMAP:28289)

loop of Henle (EMAP: 31497) **GROUP**

- loop of Henle, outer medullary portion (EMAP:28324)
 - thin descending limb (EMAP:28327)
 - thin ascending limb (syn: ascending thin limb) (EMAP:28330)**
 - proximal straight tubule (syn: segment 3 of proximal tubule; pars recta) (EMAP:28864)
 - premacula segment of distal straight tubule (syn: thick ascending limb) (EMAP:31381)**
- loop of Henle, inner medullary portion (EMAP:28354)

thin descending limb (EMAP:28357)
 bend (syn: U-turn) (EMAP:28360)
 thin ascending limb (syn: ascending thin limb) (EMAP:28330)

juxtaglomerular complex (GROUP) (EMAP:30451)

extraglomerular mesangium (EMAP: 28280)
 macula densa (EMAP: 28401)
 part of the afferent arteriole forming the juxtaglomerular complex (EMAP: 28271)

collecting duct (GROUP) (EMAP:28412)

ureteric tip (syn:ureteric ampulla) (EMAP:27755)
 collecting duct terminal branch (syn:ureteric tree terminal branch) (EMAP:31051)
 cortical collecting duct (EMAP:28135)
 outer medullary collecting duct (EMAP:28348)
 inner medullary collecting duct (syn: papillary collecting duct) (EMAP: 28372)

renal interstitium group (GROUP) (EMAP:28523)

associated interstitium (EMAP:27930)
 extraglomerular mesangium (EMAP:28280)
 glomerular mesangium (EMAP:27966)
 glomerular mesangium (EMAP:28250)
 nephrogenic interstitium (syn: peripheral blastema) (EMAP:27734)
 presumptive mesangium (EMAP:27936)
 renal cortical interstitium (syn:cortical stroma) (EMAP:28141)
 renal cortical fibroblasts (EMAP: 31293)
 resident macrophage of the cortex (EMAP: 31301)
 rest of cortical interstitium (EMAP:31309)
 outer medullary interstitium (EMAP:28339)
 outer medullary fibroblast (EMAP:31386)
 resident macrophage of the outer medulla (EMAP:31391)
 rest of outer medullary interstitium (EMAP:31396)
 inner medullary interstitium (syn:papillary interstitium) (EMAP:28366)
 inner medullary fibroblast (EMAP: 31401)
 resident macrophages of the inner medulla (EMAP:31406)
 rest of inner medullary interstitium (EMAP: 31411)
 perihilar interstitium (EMAP:28088)
 perihilar fibroblast (EMAP: 31364)
 resident macrophage of the perihilar interstitium (EMAP 31370)
 rest of perihilar interstitium (EMAP: 31376)

renal vasculature (GROUP) (EMAP:28463)

glomerular capillary system (EMAP:27960)
 juxtaglomerular arteriole (EMAP:27996)
 afferent arteriole (EMAP:28232)
 efferent arteriole (EMAP:28235)
 presumptive endothelium (EMAP:27942)
 renal artery (EMAP:28375)
 endothelial layer of renal artery (EMAP:29980)
 smooth muscle layer of renal artery (EMAP:29974)
 renal vein (EMAP:28378)
 endothelial layer of renal vein (EMAP:29968)
 smooth muscle layer of renal vein (EMAP:30025)
 renal cortical vasculature (EMAP:28146)
 renal cortical arterial system (EMAP:28151)
 interlobular artery (EMAP:28214)
 arcuate artery (EMAP:28217)
 renal cortical venous system (EMAP:28156)
 interlobular vein (EMAP:28220)
 arcuate vein (EMAP:28223)
 renal cortical capillaries (EMAP:30041)
 renal medullary vasculature (EMAP:28161)
 renal medullary arterial system (EMAP:28166)
 renal medullary venous system (EMAP:28171)
 renal medullary capillary (syn:vasa recta) (EMAP:30047)

large blood vessels (EMAP 31466)

renal artery (EMAP: 11468)
 renal vein (EMAP: 13093)
 arcuate vein (EMAP: 28223)
 interlobular artery (EMAP: 28214)
 interlobular vein (EMAP: 28220)
 arcuate artery (EMAP: 28217)

small blood vessels (EMAP: 31473)

renal cortical capillary (EMAP: 30041)
 efferent arteriole (EMAP: 28277)
 renal medullary arterial system (EMAP: 28166)
 afferent arteriole (EMAP: 28268)
 glomerular capillary system (EMAP:28247)
 renal medullary venous system (EMAP: 28171)
 renal medullary capillary (syn:vasa recta) (EMAP: 30047)
 glomerular capillary system (EMAP: 27960)

TS27 renal/urinary system (19.5dpc – P3)

urinary system (EMAP:30243)

metanephros (syn:kidney) (EMAP:30247)
 renal capsule (EMAP:30249)
 nephrogenic zone (EMAP:30282)
 nephrogenic interstitium (syn: peripheral blastema) (EMAP:30283)
 cap mesenchyme (syn: condensed mesenchyme) (EMAP:30284)
 pretubular aggregate (syn: pretubular condensate) (EMAP:30285)
 ureteric tip (syn: ureteric ampulla) (EMAP:30248)
 ureteric tree terminal branch (EMAP:31052)
 renal cortex (EMAP:30287)
 renal vesicle (syn: stage I nephron, syn:epithelial vesicle,) (EMAP:30316)
 comma-shaped body (EMAP:30303)
 upper limb of comma-shaped body (syn: distal limb of comma-shaped body) (EMAP:30304)
 lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) (EMAP:30305)
 S-shaped body (syn: stage II nephron) (EMAP:30319)
 renal connecting tubule (EMAP:30324)
 distal segment of S-shaped body (syn:upper limb of S-shaped body) (EMAP:30320)
 medial segment of S-shaped body (syn: mid-portion of S-shaped body) (EMAP:30325)
 proximal segment of S-shaped body (syn: lower limb of S-shaped body) (EMAP:30321)
 visceral epithelium (EMAP:30322)
 parietal epithelium (EMAP:30323)
 capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron) (EMAP:30307)
 visceral epithelium (syn: podocyte layer) (EMAP:30308)
 parietal epithelium (EMAP:30312)
 associated interstitium (EMAP:30311)
 presumptive mesangium (EMAP:30309)
 presumptive endothelium (EMAP:30310)
 maturing renal corpuscle (syn: renal corpuscle of Stage IV nephron) (EMAP:30264)
 maturing glomerular tuft (syn: maturing glomerulus) (EMAP:30268)
 glomerular capillary system (EMAP:30271)
 glomerular mesangium (EMAP:30270)
 visceral epithelium (syn: podocyte layer) (EMAP:30269)
 glomerular basement membrane (EMAP: 30971)
 Bowman's capsule (syn: glomerular capsule) (EMAP:30272)

- parietal epithelium (EMAP:30274)
- urinary space of renal corpuscle (syn: Bowman's space) (EMAP:30273)
- juxtaglomerular arteriole (EMAP:30265)
 - afferent arteriole (EMAP:30266)
 - efferent arteriole (EMAP:30267)
- mature renal corpuscle (syn: Malpighian corpuscle) (EMAP:30289)
 - glomerular tuft (syn: glomerulus) (EMAP:30291)
 - glomerular capillary system (EMAP:30294)
 - glomerular mesangium (EMAP:30295)
 - glomerular basement membrane (EMAP:30293)
 - visceral epithelium (syn: podocyte layer) (EMAP:30292)
 - Bowman's capsule (syn: glomerular capsule) (EMAP:30300)
 - parietal epithelium (EMAP:30301)
 - urinary space of renal corpuscle (syn: Bowman's space) (EMAP:30302)
 - afferent arteriole (EMAP:30296)
 - part of the afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cells) (EMAP:30297)
 - rest of afferent arteriole (EMAP:30298)
 - efferent arteriole (EMAP:30290)
 - extraglomerular mesangium (EMAP:30299)
- cortical renal tubule (syn: tubular portion of nephron) (EMAP:30253)
 - renal proximal tubule (EMAP:30254)
 - early proximal tubule (EMAP:30255)
 - renal proximal convoluted tubule (syn: first convoluted tubule) (EMAP:30256)
 - renal distal tubule (EMAP:30257)
 - early distal tubule (EMAP:30261)
 - distal convoluted tubule (syn: second convoluted tubule) (EMAP:30262)
 - distal straight tubule (syn: thick ascending limb) (EMAP:30258)
 - macula densa (EMAP:30260)
 - postmacula segment of distal straight tubule (EMAP:30259)
 - premacula segment of distal straight tubule (EMAP 31382)
 - anlage of loop of Henle (syn: primitive loop of Henle) (EMAP: 31287)
 - renal connecting tubule (EMAP:30263)
- renal cortical interstitium (syn: cortical stroma) (EMAP:30315)
 - renal cortical fibroblast (EMAP: 31294)
 - resident macrophage of the cortex (syn: renal monocytes of the cortex) (EMAP: 31302)
 - rest of renal cortical interstitium (EMAP: 31310)
- renal cortical lymphatics (EMAP: 31317)
- renal cortical nerves (EMAP: 31324)
- renal cortical vasculature (EMAP:30326)
 - renal cortical arterial system (EMAP:30328)
 - interlobular artery (EMAP:30330)
 - arcuate artery (EMAP:30329)
 - renal cortical venous system (EMAP:30331)
 - interlobular vein (EMAP:30333)
 - arcuate vein (EMAP:30332)
 - renal cortical capillary (EMAP:30327)
- cortical collecting duct (EMAP:30281)
- renal medulla (EMAP:30334)
 - outer medulla (EMAP:30343)
 - loop of Henle, outer medullary portion (EMAP:30351)
 - thin descending limb (EMAP:30353)
 - thin ascending limb (syn: ascending thin limb) (EMAP:30352)
 - proximal straight tubule (syn: segment 3 of proximal tubule; pars recta) (EMAP:30356)
 - premacula segment of distal straight tubule (syn: thick ascending limb) (EMAP:30354)
 - outer medullary interstitium (EMAP:30350)

- outer medullary fibroblast (EMAP: 31387)
- resident macrophage of the outer medulla (syn: renal monocytes of the outer medulla) (EMAP: 31392)
- rest of outer medullary interstitium (EMAP: 31397)
- outer medullary collecting duct (EMAP:30349)
- inner medulla (syn: papilla) (EMAP:30335)
 - loop of Henle, inner medullary portion (EMAP:30339)
 - thin descending limb (EMAP:30341)
 - bend (syn: U-turn) (EMAP:30340)
 - thin ascending limb (syn: ascending thin limb) (EMAP:30342)
 - inner medullary interstitium (syn: papillary interstitium) (EMAP:30337)
 - inner medullary fibroblast (EMAP: 31402)
 - resident macrophage of the inner medulla (syn: renal monocytes of the inner medulla) (EMAP: 31407)
 - inner medullary collecting duct (syn: papillary collecting duct) (EMAP:30336)
- renal medullary lymphatics (EMAP: 31352)
- renal medullary nerves (EMAP: 31359)
- renal medullary vasculature (EMAP:30357)
 - renal medullary arterial system (EMAP:30358)
 - renal medullary venous system (EMAP:30360)
 - renal medullary capillary (syn:vasa recta) (EMAP:30359)
- calyx (EMAP:30250)
 - major (EMAP:30251)
 - minor (EMAP:30252)
- pelvis (EMAP:30276)
 - pelvic urothelial lining (syn: pelvic urothelium) (EMAP:30278)
 - pelvic smooth muscle (EMAP:30277)
 - perihilar interstitium (EMAP:30279)
 - perihilar fibroblast (EMAP: 31365)
 - resident macrophage of perihilar interstitium (syn: renal monocytes of the perihilar interstitium) (EMAP: 31371)
 - rest of perihilar interstitium (EMAP: 31377)
- renal artery (EMAP:30244)
 - endothelial layer of renal artery (EMAP:30245)
 - smooth muscle layer of renal artery (EMAP:30246)
- renal vein (EMAP:30404)
 - endothelial layer of renal vein (EMAP:30405)
 - smooth muscle layer of renal vein (EMAP:30406)
- ureter (syn: primitive ureter) (EMAP:30363)
 - urothelium (syn: transitional epithelium) (EMAP:30369)
 - superficial cellular layer (syn: umbrella cell) (EMAP:30373)
 - deep cellular layer (syn: basal urothelium) (EMAP:30370)
 - intermediate cell layer (EMAP:30371)
 - basal cell layer (EMAP:30372)
- lamina propria (EMAP:30367)
- ureteral smooth muscle layer (EMAP:30364)
 - smooth muscle component (EMAP:30365)
 - interstitium (syn: Cajal cell) (EMAP:30366)
- adventitia of ureter (EMAP 30368)
- ureteral vasculature (EMAP:30858)
- urachus (EMAP:30403)
- bladder (EMAP:30374)
 - epithelium of the bladder (syn: urothelium) (EMAP:30380)
 - epithelium of fundus (EMAP:30382)
 - epithelium of trigone (EMAP:30381)
 - epithelium of neck (EMAP:30383)
 - lamina propria of the bladder (EMAP:30396)
 - lamina propria of the fundus (EMAP:30397)
 - lamina propria of the trigone (EMAP:30398)
 - lamina propria of the neck (EMAP:30399)
 - muscularis mucosa of bladder (EMAP:30388)
 - muscularis mucosa of fundus (EMAP:30390)
 - muscularis mucosa of trigone (EMAP:30389)
 - muscularis mucosa of neck (EMAP:30391)

detrusor muscle of bladder (EMAP:30376)
 detrusor muscle of fundus (EMAP:30378)
 detrusor muscle of trigone (EMAP:30377)
 detrusor muscle of neck (EMAP:30379)
 serosa of bladder (EMAP:30392)
 serosa of fundus (EMAP:30395)
 serosa of trigone (EMAP:30393)
 serosa of neck (EMAP:30394)
 adventitia of bladder (EMAP:30384)
 adventitia of fundus (EMAP:30385)
 adventitia of trigone (EMAP:30387)
 adventitia of neck (EMAP:30386)
 blood vessels of bladder (EMAP:30375)
 urethra of male (EMAP:30407)
 pelvic urethra of male (EMAP:30412)
 epithelial layer of pelvic urethra of male (EMAP:30415)
 mesenchymal layer of pelvic urethra of male (EMAP:30414)
 muscle layer of pelvic urethra of male (EMAP:30413)
 phallic urethra of male (EMAP:30408)
 epithelial layer of phallic urethra of male (EMAP:30409)
 mesenchymal layer of phallic urethra of male (EMAP:30411)
 muscle layer of phallic urethra of male (EMAP:30410)
 urethra of female (EMAP:30418)
 pelvic urethra (syn; membranous urethra of female) (EMAP:30419)
 epithelial layer of pelvic urethra of female (EMAP:30421)
 mesenchymal layer pelvic urethra of female (EMAP:30422)
 muscle layer pelvic urethra of female (EMAP:30420)
 phallic urethra of female (syn: external urethra of female) (EMAP:30922)
 epithelial layer phallic urethra of female (EMAP:30933)
 mesenchymal layer phallic urethra of female (EMAP:30937)
 muscle layer phallic urethra of female (EMAP:30941)
 mesentery (EMAP:30400)
 urogenital mesentery (EMAP:30402)
 rest of mesentery (EMAP:30401)
 urorectal septum (EMAP:30416)

GROUP TERMS (TS27)

developing capillary loop stage nephron (syn: stage III nephron) (GROUP) (EMAP 30317)

capillary loop renal vesicle (renal vesicle of the stage III nephron) (EMAP:30307)
 associated interstitium (EMAP:30311)
 parietal epithelium (EMAP:30312)
 presumptive endothelium (EMAP:30310)
 presumptive mesangium (EMAP:30309)
 visceral epithelium (syn: podocyte layer) (EMAP:30308)
 renal tubule (tubular portion of nephron) (EMAP:30253)
 renal connecting tubule (EMAP:30263)
 early distal tubule (EMAP:30261)
 anlage of loop of Henle (syn: primitive loop of Henle) (EMAP: 31287)
 early proximal tubule (EMAP:30255)

maturing nephron (syn: stage IV nephron) (GROUP) (EMAP: 30306)

maturing renal corpuscle (renal corpuscle of the stage IV nephron) (EMAP:30264)
 Bowman's capsule (glomerular capsule) (EMAP:30272)
 parietal epithelium (EMAP:30274)
 urinary space of renal corpuscle (Bowman's space) (EMAP:30273)
 juxtaglomerular arteriole (EMAP:30265)
 afferent arteriole (EMAP:30266)
 efferent arteriole (EMAP:30267)
 maturing glomerular tuft (maturing glomerulus) (EMAP:30268)
 glomerular capillary system (EMAP:30271)
 glomerular mesangium (EMAP:30270)
 visceral epithelium (podocyte layer) (EMAP:30269)
 renal tubule (tubular portion of nephron) (EMAP:30253)

- renal connecting tubule (EMAP:30263)
- renal distal tubule (EMAP:30257)
 - distal convoluted tubule (second convoluted tubule) (EMAP:30262)
 - distal straight tubule (thick ascending limb) (EMAP:30258)
 - macula densa (EMAP:30260)
 - postmacula segment of distal straight tubule (EMAP:30259)
 - premacula segment of distal straight tubule (EMAP 31382)
 - early distal tubule (EMAP30261)
- renal proximal tubule (EMAP:30254)
 - early proximal tubule (EMAP:30255)
 - renal proximal convoluted tubule (syn:first convoluted tubule) (EMAP:30256)

mature nephron (GROUP) (EMAP:30288)

- mature renal corpuscle (Malpighian corpuscle) (EMAP:30289)
 - afferent arteriole (EMAP:30269)
 - part of afferent arteriole forming the juxtaglomerular complex (EMAP:30297)
 - rest of afferent arteriole (EMAP:30298)
 - Bowman's capsule (syn:glomerular capsule) (EMAP:30300)
 - parietal epithelium (EMAP:30301)
 - urinary space of renal corpuscle (syn: Bowman's space) (EMAP:30302)
 - efferent arteriole (EMAP:30296)
 - extraglomerular mesangium (EMAP:30299)
 - glomerular tuft (syn:glomerulus) (EMAP:30291)
 - glomerular basement membrane (EMAP:30293)
 - glomerular capillary system (EMAP:30294)
 - glomerular mesangium (EMAP:30295)
 - visceral epithelium (syn:podocyte layer) (EMAP:30292)
- renal tubule (syn:tubular portion of nephron) (EMAP:30253)
 - renal connecting tubule (EMAP:30263)
 - renal distal tubule (EMAP:30257)
 - distal convoluted tubule (syn:second convoluted tubule) (EMAP:30262)
 - distal straight tubule (syn:thick ascending limb) (EMAP:30258)
 - macula densa (EMAP:30260)
 - postmacula segment of distal straight tubule (EMAP:30259)
 - premacula segment of distal straight tubule (EMAP 31382)
 - renal proximal tubule (EMAP:30254)
 - renal proximal convoluted tubule (syn:first convoluted tubule) (EMAP:30256)
- loop of Henle (EMAP: 31498) **GROUP**
 - loop of Henle, outer medullary portion (EMAP:30351)
 - thin descending limb (EMAP:30353)
 - thin ascending limb (syn: ascending thin limb) (EMAP:30352)
 - proximal straight tubule (syn: segment 3 of proximal tubule; pars recta) (EMAP:30356)
 - premacula segment of distal straight tubule (syn: thick ascending limb) (EMAP:30354)
 - loop of Henle, inner medullary portion (EMAP:30339)
 - thin descending limb (EMAP:30341)
 - bend (syn: U-turn) (EMAP:30340)
 - thin ascending limb (syn: ascending thin limb) (EMAP:30342)

juxtaglomerular complex (GROUP) (EMAP:30452)

- extraglomerular mesangium (EMAP:30299)
- macula densa (EMAP:30260)
- part of the afferent arteriole forming the juxtaglomerular complex (EMAP:30297)

collecting duct (GROUP) (EMAP: 30280)

- ureteric tip (syn:ureteric ampulla) (EMAP:30248)
- collecting duct terminal branch (ureteric tree terminal branch) (EMAP:31052)
- cortical collecting duct (EMAP:30281)

outer medullary collecting duct (EMAP:30349)
 inner medullary collecting duct (syn: papillary collecting duct) (EMAP:30336)

renal interstitium group (GROUP) (EMAP: 30362)

associated interstitium (EMAP:30311)
 extraglomerular mesangium (EMAP:30299)
 glomerular mesangium of maturing renal corpuscle (EMAP:30270)
 glomerular mesangium of mature renal corpuscle (EMAP:30295)
 nephrogenic interstitium (syn: peripheral blastema) (EMAP:30283)
 presumptive mesangium (EMAP:30309)
 renal cortical interstitium (syn:cortical stroma) (EMAP:30315)
 renal cortical fibroblasts (EMAP: 31294)
 resident macrophage of the cortex (EMAP:31302)
 rest of cortical interstitium (EMAP:31310)
 outer medullary interstitium (EMAP:30350)
 outer medullary fibroblast (EMAP: 31387)
 resident macrophage of the outer medulla (EMAP: 31392)
 rest of outer medullary interstitium (EMAP: 31397)
 inner medullary interstitium (syn:papillary interstitium) (EMAP:30337)
 inner medullary fibroblast (EMAP: 31402)
 resident macrophages of the inner medulla (EMAP: 31407)
 rest of inner medullary interstitium (EMAP: 31412)
 perihilar interstitium (EMAP:30279)
 perihilar fibroblast (EMAP: 31365)
 resident macropage of the perihilar interstitium (EMAP: 31371)
 rest of perihilar interstitium (EMAP: 31377)

renal vasculature (GROUP) (EMAP: 30417)

glomerular capillary system (EMAP:30294)
 juxtaglomerular arteriole (EMAP:30265)
 afferent arteriole (EMAP:30266)
 efferent arteriole (EMAP:30267)
 presumptive endothelium (EMAP:30310)
 renal artery (EMAP:30244)
 endothelial layer (EMAP:30245)
 smooth muscle layer (EMAP:30246)
 renal vein (EMAP:30404)
 endothelium of renal vein (EMAP:30405)
 smooth muscle layer (EMAP:30406)
 renal cortical vasculature (EMAP:30326) (GROUP)
 renal cortical arterial system (EMAP:30328)
 interlobular artery (EMAP:30330)
 arcuate artery (EMAP:30329)
 renal cortical venous system (EMAP:30331)
 interlobular vein (EMAP:30333)
 arcuate vein (EMAP:30332)
 renal cortical capillaries (EMAP:30327)
 renal medullary vasculature (EMAP:30357) (GROUP)
 renal medullary arterial system (EMAP:30358)
 renal medullary venous system (EMAP:30360)
 renal medullary capillary (syn: vasa recta) (EMAP:30359)

large blood vessels (EMAP:31467)

renal artery (EMAP: 10110)
 renal vein (EMAP: 13094)
 arcuate vein (EMAP: 28224)
 interlobular artery (EMAP: 28215)
 interlobular vein (EMAP: 28221)
 arcuate artery (EMAP: 28218)

small blood vessels (EMAP: 31474)

renal cortical capillary (EMAP: 30042)
 efferent arteriole (EMAP: 28278)

renal medullary arterial system (EMAP: 28167)
afferent arteriole (EMAP: 28269)
glomerular capillary system (EMAP: 28248)
renal medullary venous system (EMAP: 28172)
renal medullary capillary (syn:vasa recta) (EMAP: 30048)
glomerular capillary system (EMAP: 28961)