**Items to Identify: Urinary System**

**Slides to Identify**

* Slide 160: Urinary bladder, monkey
	+ Transitional epithelium
* Slide 254: Kidney medulla (Lee’s stain)
	+ Renal capsule dense irregular connective tissue, cortex, medulla, hilus, cortex
	+ Glomerulus, capillary nuclei and lumen, endothelial cells, visceral epithelium of Bowman’s capsule, podocytes, Bowman’s capsule, parietal epithelium
	+ Arterioles, vascular pole, fenestrated endothelium
	+ Urinary pole, parietal epithelium transition to taller columnar cells of proximal convoluted tubule
	+ Proximal convoluted tubules, filtrate, descending loops of Henle, medullary rays, ascending loops of Henle, vasa recta, macula densa, juxtaglomerular cells, mesangial cells, juxtaglomerular apparatus, distal convoluted tubules, collecting tubules
* Slide 258: Kidney (PAS)
	+ Glomerular basal laminae,
	+ Renal capsule dense irregular connective tissue, cortex, medulla, hilus, cortex
	+ Glomerulus, capillary nuclei and lumen, endothelial cells, visceral epithelium of Bowman’s capsule, podocytes, Bowman’s capsule, parietal epithelium
	+ Arterioles, vascular pole, fenestrated endothelium
	+ Urinary pole, parietal epithelium transition to taller columnar cells of proximal convoluted tubule
	+ Proximal convoluted tubules, filtrate, descending loops of Henle, medullary rays, ascending loops of Henle, vasa recta, macula densa, juxtaglomerular cells, mesangial cells, juxtaglomerular apparatus, distal convoluted tubules, collecting tubules
* Slide 259: Kidney, cortex & Slide 260: Kidney
	+ Renal capsule dense irregular connective tissue, cortex, medulla, hilus, cortex
	+ Glomerulus, capillary nuclei and lumen, endothelial cells, visceral epithelium of Bowman’s capsule, podocytes, Bowman’s capsule, parietal epithelium
	+ Arterioles, vascular pole, fenestrated endothelium
	+ Urinary pole, parietal epithelium transition to taller columnar cells of proximal convoluted tubule
	+ Proximal convoluted tubules, filtrate, descending loops of Henle, medullary rays, ascending loops of Henle, vasa recta, macula densa, juxtaglomerular cells, mesangial cells, juxtaglomerular apparatus, distal convoluted tubules, collecting tubules
* Slide 262: Ureter & HISTO034: Ureter
	+ Mucous membrane, transitional epithelium, lamina propria, muscle coat, adventitia
* Slide 277: Penis
	+ Transitional epithelium of urethra
* Slide 458: Kidney& Slide 19713: Kidney & Slide 34400: Rat- kidney & Slide 36748: Rat- kidney
	+ Renal capsule dense irregular connective tissue, cortex, medulla, hilus, cortex
	+ Glomerulus, capillary nuclei and lumen, endothelial cells, visceral epithelium of Bowman’s capsule, podocytes, Bowman’s capsule, parietal epithelium
	+ Arterioles, vascular pole, fenestrated endothelium
	+ Urinary pole, parietal epithelium transition to taller columnar cells of proximal convoluted tubule
	+ Proximal convoluted tubules, filtrate, descending loops of Henle, medullary rays, ascending loops of Henle, vasa recta, macula densa, juxtaglomerular cells, mesangial cells, juxtaglomerular apparatus, distal convoluted tubules, collecting tubules
	+ Medullary papilla, minor calyces, major calyces

**EMs to Identify**

* EM 18a: Kidney Podocyte; 17,333x
	+ Fenestrated endothelium of glomerular capillaries
	+ Glomerular basal lamina, visceral epithelium, podocytes- cell body, trabeculae, secondary processes, pedicels, filtration slits, mesangial cells
* EM 18b: Kidney (scanning); 950x
	+ Urinary pole of glomerulus