

Renal Physiology Notes

Function of the Kidney

Filtration, Excretion, Electrolyte balance, Acid-base balance (long term), Endocrine functions - blood pressure (via renin secretion) and stimulating production of red blood cells (via erythropoietin)

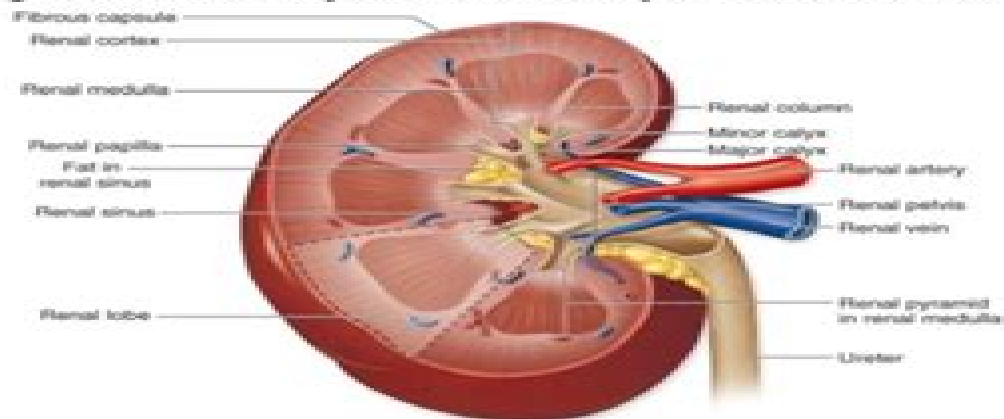
Anatomy of the Kidney

The kidneys lie against the posterior abdominal wall at the level of T12 to L3

Right kidney is slightly lower because of the liver

Rib 12 cross the approximate middle of the left kidney

Retroperitoneal, along with ureters, urinary bladder, renal artery and vein, and the adrenal glands



Renal artery and vein come off the abdominal aorta and the inferior vena cava respectively

Blood flow through kidney

Aorta → Renal a. → Segmental a. → Interlobar a. → Arcuate a. → Interlobular a. → Afferent arteriole → Glomerulus → Efferent arteriole → Peritubular capillaries → Interlobular v. → Arcuate v. → Interlobar v. → Renal v. → Inferior vena cava

Note: juxtamedullary nephrons have their blood flow through the vasa recta rather than the peritubular capillaries

The Nephron

Each nephron is composed of two principle parts – renal corpuscle (which filters the blood plasma) and the renal tubule (which converts filtrate to urine)

Renal corpuscle

Consists of the glomerulus and the two layered Bowman capsule that encloses it.

Outer layer of Bowman's capsule = simple squamous epithelium

Inner layer of Bowman's capsule = consists of podocytes which wrap around the capillaries of the glomerulus

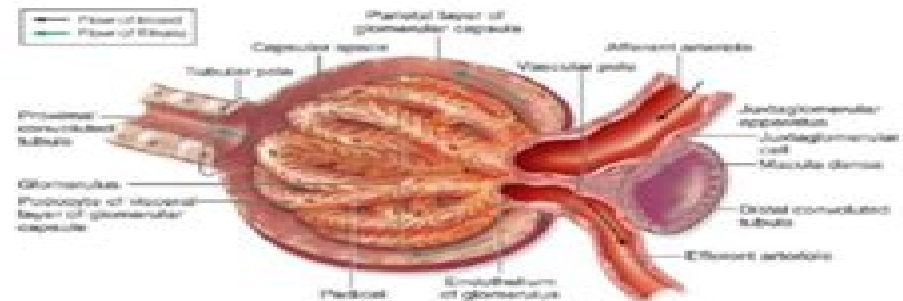
The two layers are separated by the collecting capsular space

Vascular poles of renal corpuscle → afferent arteriole enters

Urinary poles of renal corpuscle → proximal convoluted tubule leaves

Renal tubule

Four Regions:



Renal System Physiology Answers

Tao Wei



Renal System Physiology Answers:

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