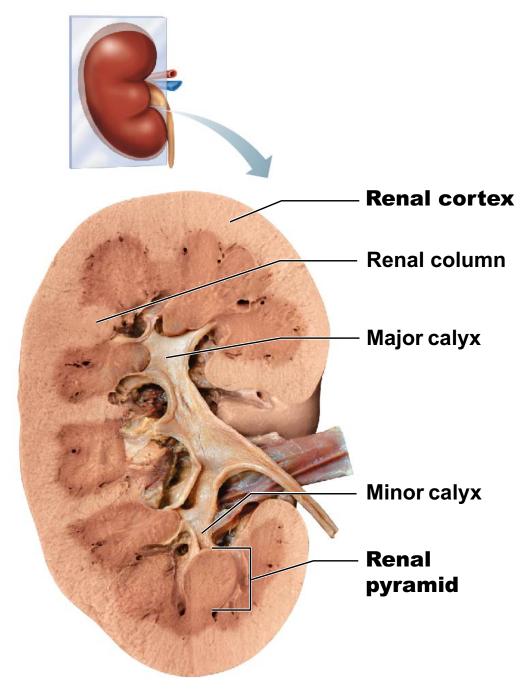
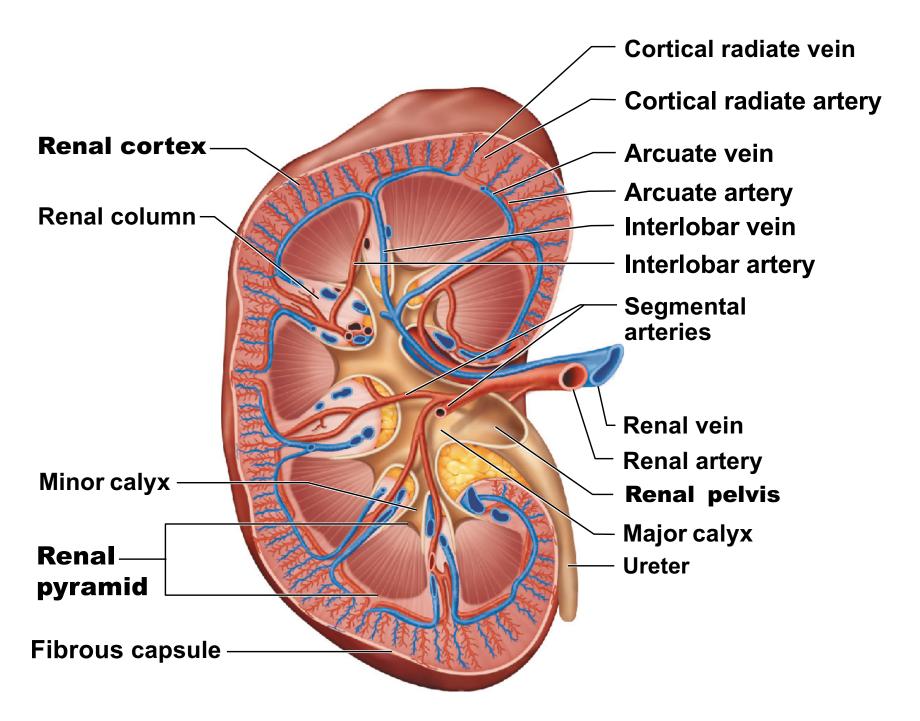


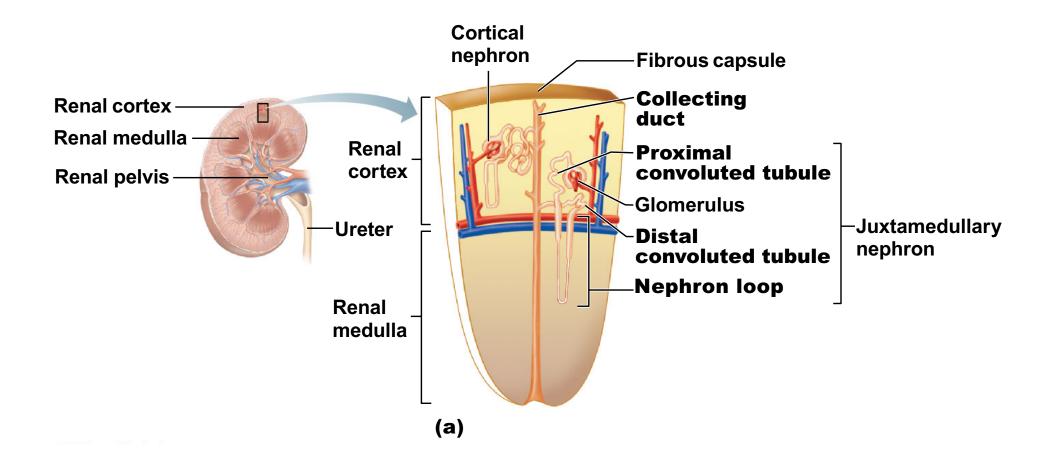


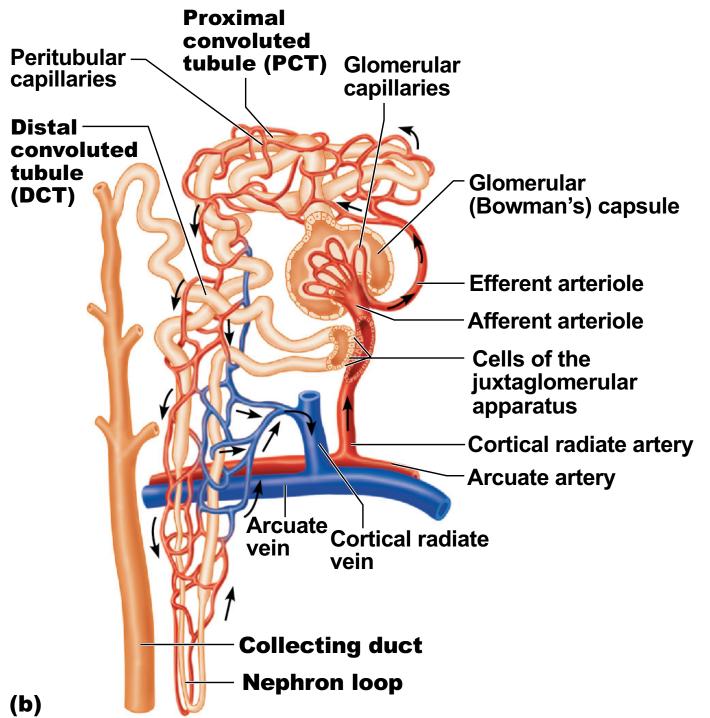
(b)

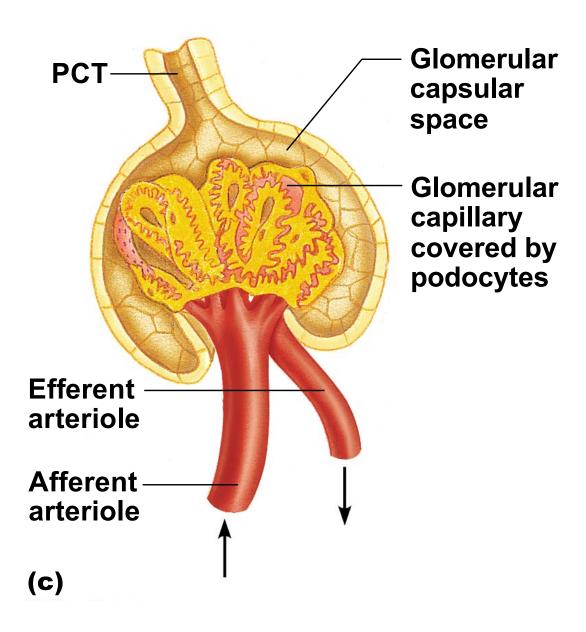


(a)

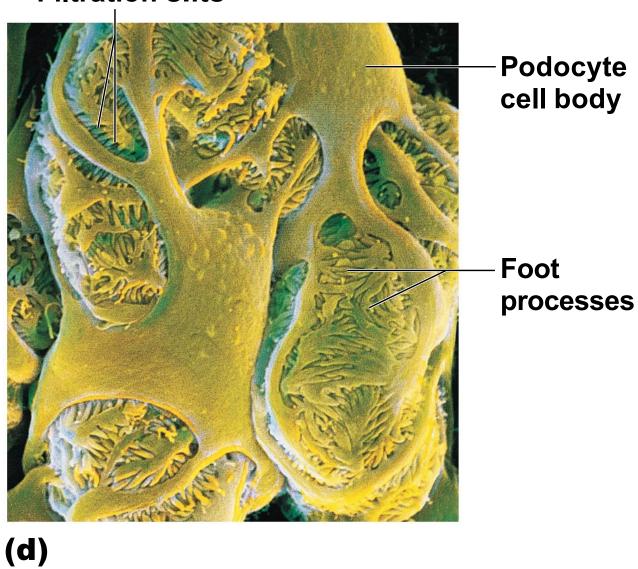


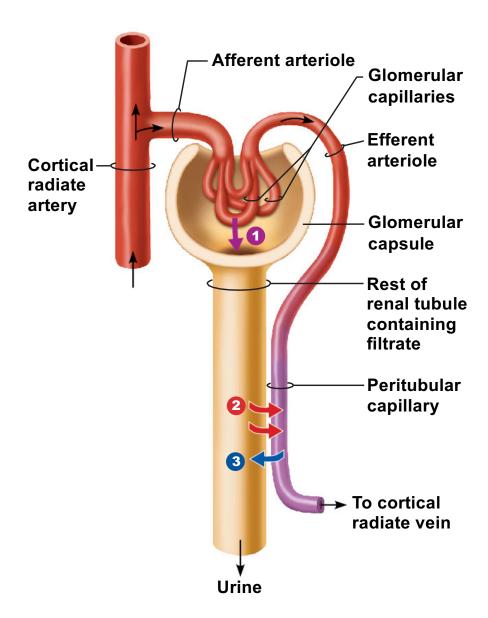






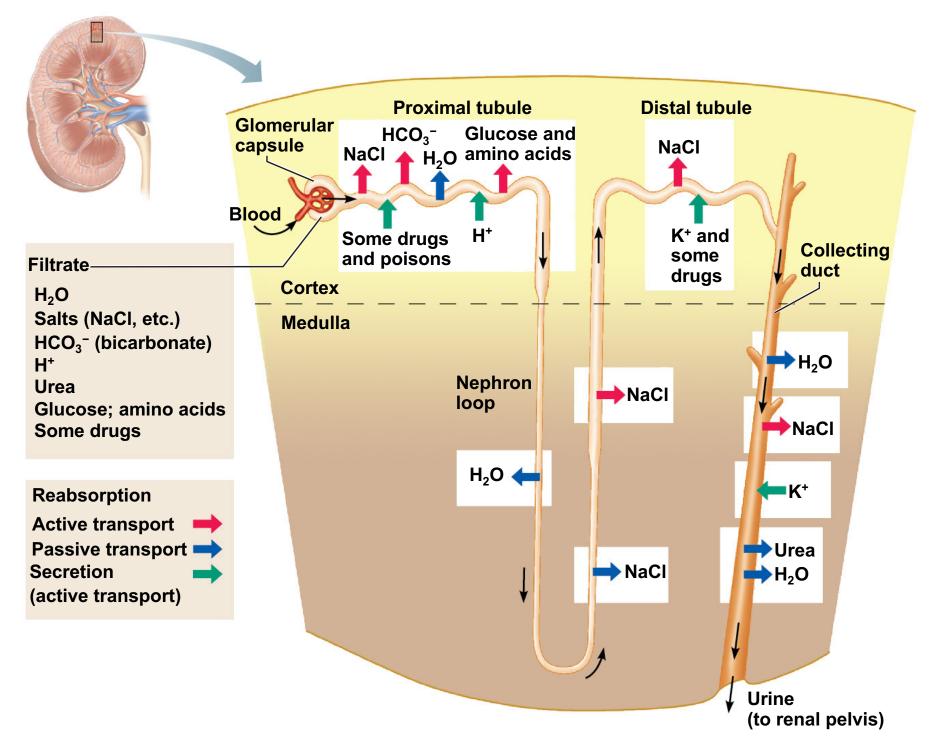
Filtration slits

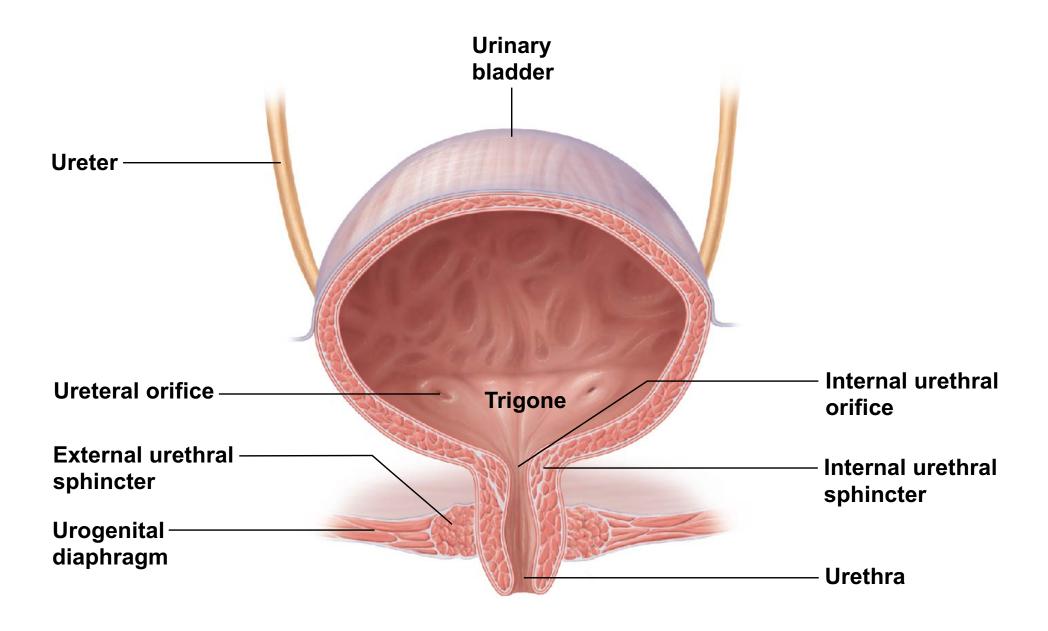


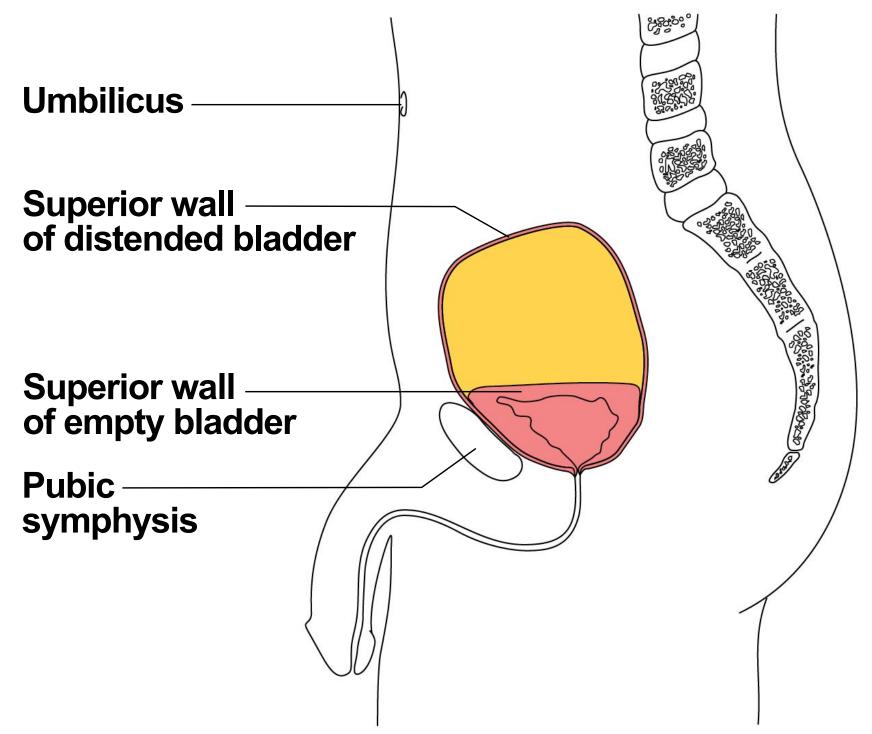


Three major renal processes:

- Tubular reabsorption: Water, glucose, amino acids, and needed ions are transported out of the filtrate into the tubule cells and then enter the capillary blood.
- Tubular secretion: H¹, K¹, creatinine, and drugs are removed from the peritubular blood and secreted by the tubule cells into the filtrate.







Total body water

Volume = 40 L 60% body weight

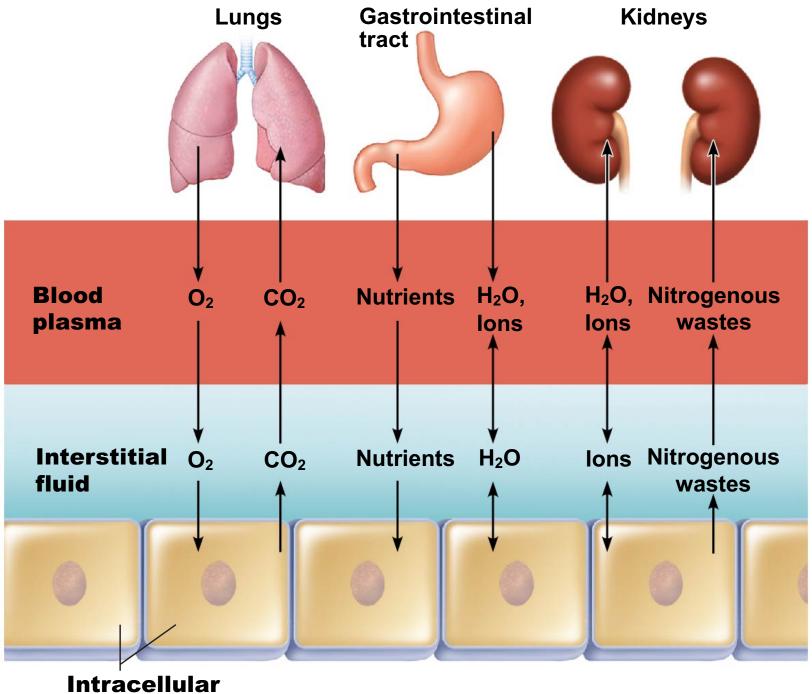
Intracellular fluid (ICF)

Volume = 25 L 40% body weight Interstitial fluid (IF)
Volume = 12 L
80% of ECF

olume = 3 L, 20% of ECF

Extracellular fluid (ECF)

-Volume = 15 L 20% body weight



Intracellular fluid in tissue cells

