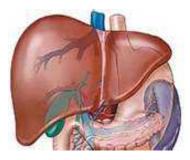
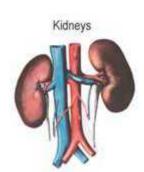
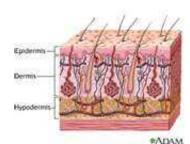
Excretion

Although the urinary system has a major role in excretion, other organs contribute to the excretory function.







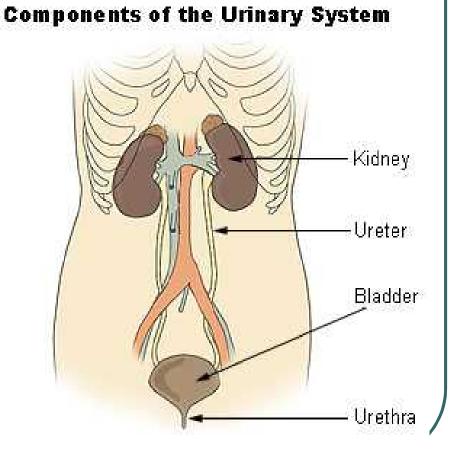


Kidneys & Urinary System

Urinary System – <u>excretes waste and</u> maintains

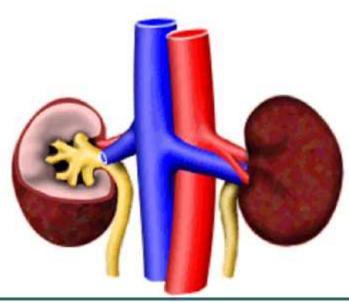
homeostasis of body fluids.

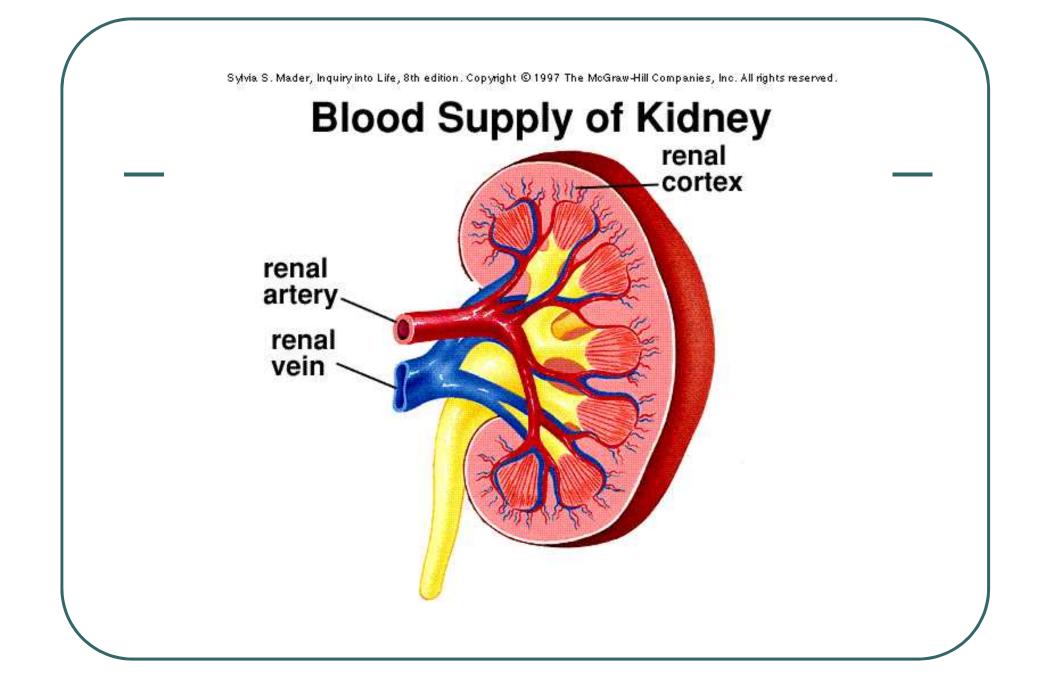
- Kidneys
- Ureters
- Bladder
- Urethra

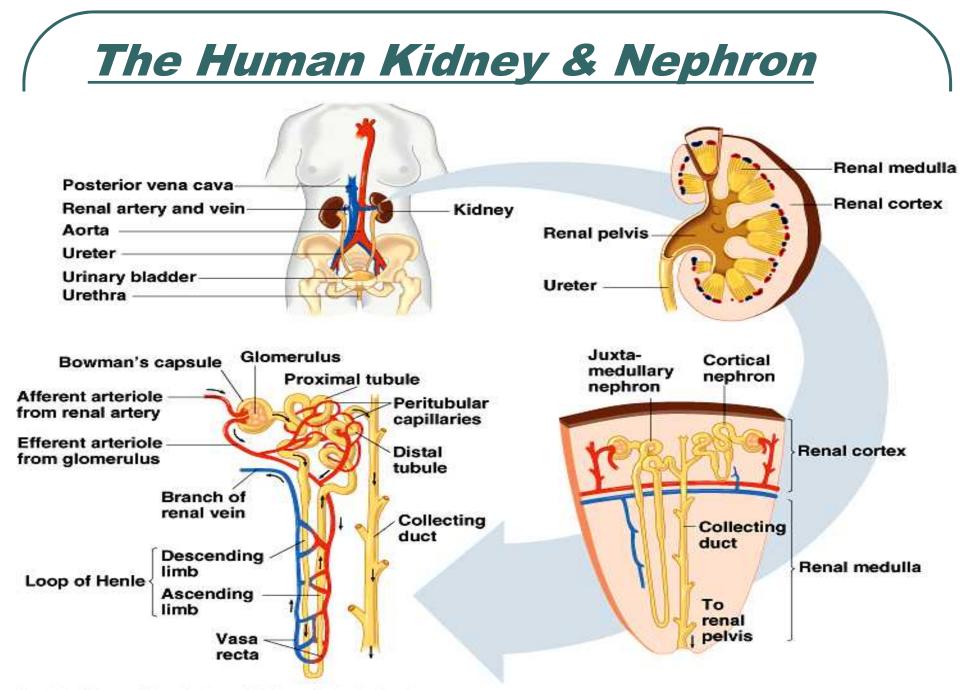


Kidneys

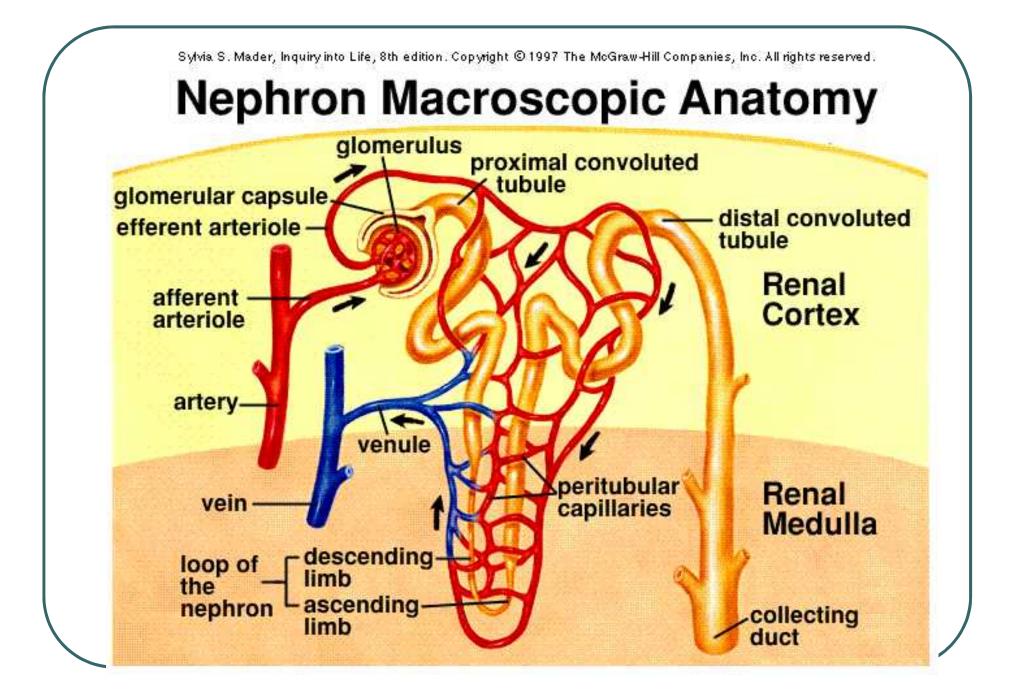
- Two reddish organs just above the waist behind the stomach
- Filter the blood and removes waste





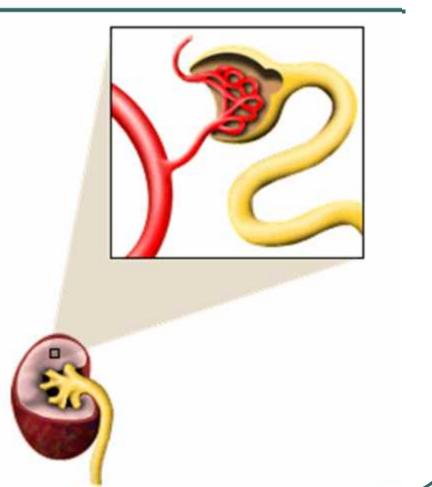


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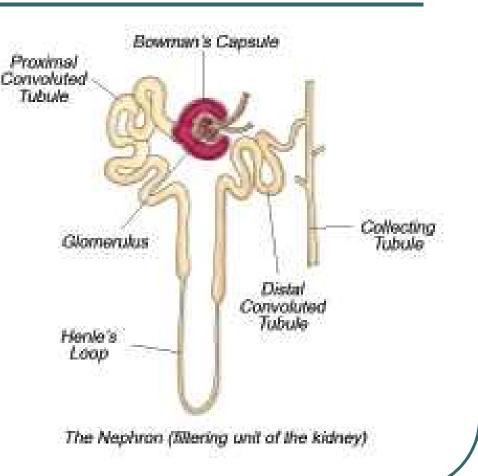
Nephron

- Filtering unit of the kidney
- Blood enters full of waste and leaves filtered
- Blood enters under high pressure and flows into the capillary beds



U-shaped Tubules (Loop of Henle)

- Most of the ions and water
- All of the glucose and amino acids
- Reabsorbed into the bloodstream
- This is how the body's water is conserved
- Homeostasis is maintained



Reabsorption

- The peritubular capillaries reabsorb several materials
 - Some water
 - Glucose
 - Amino acids
 - Ions
- Some reabsorption is passive, most is active
- Most reabsorption occurs in the proximal convoluted tubule

Materials Not Reabsorbed

- Nitrogenous waste products
 - Urea
 - Uric acid
 - Creatinine
- Excess water

