

Chapter 18: Urinary system

1. Describe the parts of the urinary system.

- a. Kidney
- b. Ureter
- c. Urinary bladder
- d. Urethra

2. What are the functions of the urinary system ?

- a. **Excretion** of organic wastes, such as urea, from the body fluids
- b. **Elimination** of these wastes into the external environment
- c. **Homeostatic regulation** of volume and solute concentration of blood

3. Describe the kidneys.

- a. Located on either side of vertebral column
- b. Between last thoracic and 3rd lumbar vertebrae
- c. Right kidney sits slightly lower than left
 - i. Displaced somewhat by the liver
- d. Situated behind (dorsal to) peritoneum
 - i. Position called retroperitoneal
- e. Adrenal gland located on superior of each kidney

4. Describe the internal kidney structure.

- a. **Renal cortex** is outer layer
 - i. In contact with fibrous capsule
 - ii. Parts of cortex move inward into medulla as **renal columns**
- b. **Renal medulla** is inner layer
 - i. Contains 6-18 cone-shaped **renal pyramids**
 - ii. Tip of each pyramid called **renal papilla**
 - 1. Projects into minor calyces
- c. **Kidney lobe**
 - i. Contains pyramid, overlying cortex and renal column
- d. Urine production begins in **nephrons** in cortex of each kidney lobe
 - i. About 1.25 million nephrons in each kidney
- e. Ducts within renal papilla drain urine into a cup-like structure called the **minor calyx**
- f. 4-5 minor calyces merge to form **major calyx**
- g. 2-3 major calyces combine to form large funnel-shaped chamber called the **renal pelvis**

Essentials Of Anatomy And Physiology Chapter 8 Notes

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