

The Urinary System

I. Kidneys

- A. Functions**
- B. Location**
- C. Size and shape**
- D. External anatomy**
 - 1. Renal hilum**
 - 2. Supporting tissue**
 - a. Fibrous capsule**
 - b. Perirenal fat capsule**
 - c. Renal fascia**
- E. Internal anatomy**
 - 1. Renal cortex**
 - 2. Renal medulla**
 - a. Renal pyramids**
 - b. Renal columns**
 - 3. Renal pelvis**
 - a. Minor calyces**
 - b. Major calyces**
- F. Nephrons**
 - 1. Glomerulus**
 - 2. Renal tubule**
 - 3. Glomerular capsule**
 - 4. Renal corpuscle**
 - 5. Peritubular capillaries**
 - 6. Proximal convoluted tubule**
 - 7. Loop of Henle**
 - 8. Distal convoluted tubule**
 - 9. Collecting ducts**

II. Ureters

- A. Function**
- B. Location**
- C. Internal anatomy**
 - 1. Mucosa**
 - a. Transitional epithelium**
 - b. Lamina propria**
 - 2. Muscularis**
 - a. Longitudinal layer**
 - b. Circular layer**
 - 3. Adventitia**

III. Urinary bladder

- A. Function**
- B. Location**
- C. Internal anatomy**
 - 1. Trigone**
 - a. Uretic orifices**
 - b. Bladder neck**
 - 2. Detrusor muscle**

IV. Urethra

A. Function

B. Location

1. Females

a. External urethral orifice

2. Males

a. Prostatic urethra

b. Membranous urethra

c. Spongy urethra

d. External urethral orifice

C. External anatomy

1. Internal urethral sphincter

2. External urethral sphincter