

## Chapter 15: Urinary System

The kidneys bear the major responsibility for eliminating nitrogenous wastes, toxins, and drug from the body as well as regulating blood volume and maintain the proper balance between water and salts, and between acids and bases.

The kidneys have other regulatory functions too:

- **Renin:** help regulate blood pressure
  - **Erythropoietin:** stimulates RBC production in bone marrow
  - **Kidney Cells:** convert vitamin D produced in the skin to its active form
- \*All of these are produced in the kidney\***

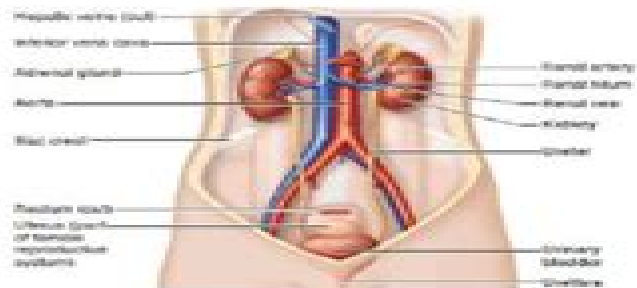
## Organs of the Urinary System

- Kidney
- Ureters (paired)
- Urinary Bladder
- Urethra

### 15.1a Locations and Structure

**Kidney:**

- small, dark red organs with a kidney-bean shape located against the dorsal body wall in a retroperitoneal position in the superior lumbar region, extending from the T12 to the L3 vertebra
- they receive some protection from the lower part of the rib cage, the right kidney is slightly lower than the left.



### Kidney Structure

An adult kidney is about 12 cm long wide and 3 cm thick, about the size of a larger bar of soap.

**Renal Hilum:** medial indentation of the kidney, pathway use by several structures to enter and exit the kidney

**Adrenal Gland:** separate organ that is part of the endocrine system sitting atop of each kidney

### Three Protective Layers of Kidney

- **Fibrous Capsule:** transparent, encloses each kidney giving it a glistening appearance
- **Perirenal Fat Capsule:** fatty mass that surrounds and cushion each kidney
- **Renal Fascia:** most superficial layer, made of dense fibrous connective tissue, anchors the kidney and adrenal gland to surrounding structures

**Three distinct regions of kidney when cut lengthwise**

- **Renal Cortex:** outer region
- **Renal Medulla:** dark reddish-brown area deep to the cortex
  - o **Renal Pyramids or Medullar Pyramids:** triangular region of renal medulla with a stripe appearance
    - o **Base:** faces toward the cortex
    - o **Apex:** tip, point towards the inner region of kidney
    - o **Renal Columns:** extensions of cortex like tissue that separates the renal pyramids
    - o **Calyces:** extension of the pelvis, form cup-shaped "drains" that enclose the tips of the pyramid, collects urine
- **Renal Pelvis:** flat, funnel-shaped tube, lateral to the hilum continuous with the ureter leaving the hilum
- **Urine:** continuously drains from the tips of the pyramid into the renal pelvis then to the ureter
- **Ureter:** transports urine to the bladder for temporary storage until it leaves the body

### Blood Supply

Kidney continuously cleanse the blood and adjusts its composition with approximately one-quarter of total blood supply of body passing through the kidneys each minute

- **Renal Artery:** artery supplying each kidney, as it approaches the hilum it divides into **segmental arteries**
- **Interlobar Arteries:** branches of segmental arteries
- **Renal Column:** pathway of interlobar arteries to reach the cortex
- **Arcuate arteries:** branches off interlobar arteries at the cortex-medulla junction, arch over the medullary pyramids

# Chapter 15 Urinary System Incredible Journey

**Susan Dudley Gold**



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*The Digestive and Excretory Systems* Susan Dudley Gold, 2004 The digestive and the excretory systems take the food we eat through a marvelous maze Every bite travels from

the mouth to the stomach to the intestines Food is separated into nutrients and waste products which both systems expel Along the way the digestive system mashes chops crushes dissolves and breaks down the food into molecules of nutrients These provide energy to the rest of the body The excretory system filters the blood and regulates the amount of salt and water in the body Learn how these remarkable systems work together to bring us life giving nutrients and rid our bodies of waste Book jacket

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