

## ORGANS OF THE URINARY SYSTEM

|                 |   |
|-----------------|---|
| KIDNEYS         | 2 |
| URETERS         | 2 |
| URINARY BLADDER | 1 |
| URETHRA         | 1 |

### LOCATION OF THE KIDNEYS

- **DIMENSION**
  - Reddish brown, bean shape
  - 12cm long, 6cm wide, 3cm thick
- High on posterior abdominal wall
  - At the level of T12 to L3-superior lumbar region
- Retro-peritoneal and against the dorsal body wall
- The right kidney is slightly lower than the left, convex laterally
- Attached to ureters, renal blood vessels, and nerves at renal hilus (medial indentation)
- Atop each kidney is an adrenal gland

### COVERINGS OF THE KIDNEY

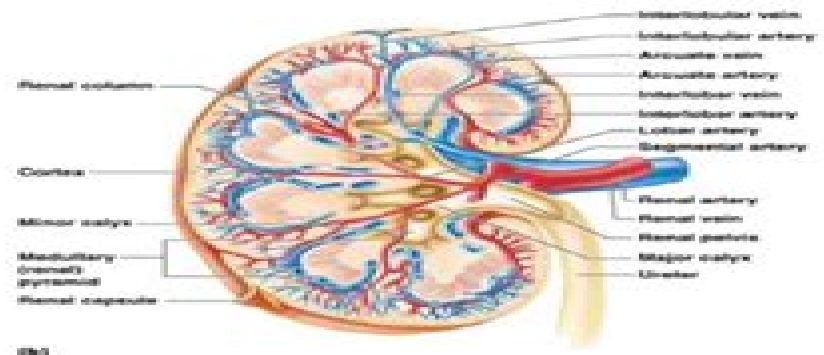
- **ADIPOSE CAPSULE**
  - Surrounds the kidney
  - Provides protection to the kidney
  - Helps keep the kidney in its correct location against muscles of posterior trunk wall
    - Ptois-kidneys drop to a lower position due to rapid fat loss, creating problems with the ureters
    - Ptois can lead to hydronephrosis, a condition where urine backs up the ureters and exerts pressure on the kidney tissue
- **RENAL CAPSULE**
  - Surrounds each kidney

### REGIONS OF THE KIDNEY

- Three regions of kidneys

|               |                                                                               |
|---------------|-------------------------------------------------------------------------------|
| Renal cortex  | Renal columns-extensions of cortex-material inward                            |
| Renal medulla | Medulla pyramids-triangular regions of tissue in the medulla, appear striated |
| Renal pelvis  | Calyces- cup shaped structures enclosing the tips of the                      |

pyramids that collect and funnel urine towards the renal pelvis



### FUNCTIONS OF THE URINARY SYSTEM

- **Eliminations of waste products**
  - Filtering gallons of fluid from the bloodstream everyday creating "filtrate"
  - "filtrate" include: metabolic wastes, ionic salts, toxins, drugs
- **Maintenance of blood**
  - Red blood cell production - by producing hormone erythropoietin to stimulate RBC production in bone marrow
  - Blood pressure(vessel size) - by producing renin which causes vaso-constriction
  - Blood volume (water balance)- ADH release from anterior pituitary targets the kidney to limit water loss when blood pressure decreases or changes in blood composition
  - Blood composition(electrolyte balance)- water follows salt, aldosterone reclaims sodium to the blood
  - Blood pH- regulates H<sup>+</sup> ions and HCO<sub>3</sub><sup>-</sup> ions

# **Bio12 Urinary System Study Guide**

**Kevin T. Patton, Gary A.  
Thibodeau, Linda Swisher**



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