

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

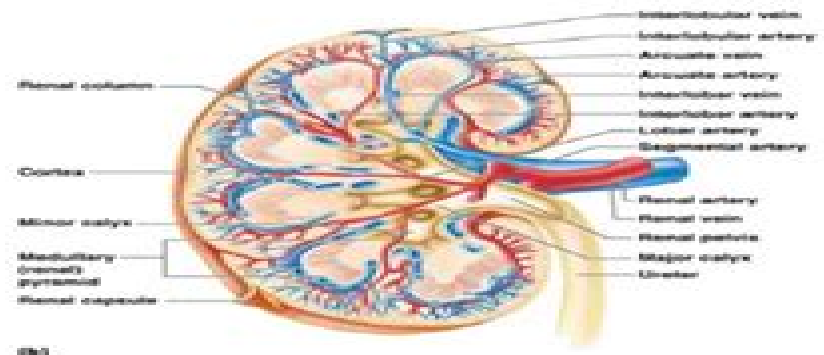
- **ADIPOSE CAPSULE**
 - Surrounds the kidney
 - Provides protection to the kidney
 - Helps keep the kidney in its correct location against muscles of posterior trunk wall
 - Ptois-kidneys drop to a lower position due to rapid fat loss, creating problems with the ureters
 - Ptois can lead to hydronephrosis, 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⁺ ions and HCO₃⁻ ions

Biology 1urinary System Study Guide

CH Cherryholmes



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