

URINARY SYSTEM ANATOMY

Reference Chart & Physiological Overview

[Anatomical Illustration Placement]

Primary Organs

- **Kidneys (Left & Right)** Bean-shaped organs that filter blood to produce urine and maintain fluid homeostasis.
- **Ureters** Two muscular tubes that transport urine from the renal pelvis to the bladder via peristalsis.
- **Urinary Bladder** A hollow, muscular sac that serves as a reservoir for urine storage until micturition.
- **Urethra** The canal through which urine is expelled from the body.

Renal Internal Structures

- **Renal Cortex** The outer layer where ultrafiltration occurs and erythropoietin is produced.
- **Renal Medulla** The inner region containing renal pyramids and the Loops of Henle.
- **Nephron** The functional unit of the kidney (approx. 1 million per kidney).
- **Renal Pelvis** A funnel-shaped cavity that collects urine before it moves into the ureter.

Key Physiological Processes

Filtration
Reabsorption
Secretion
Excretion

Clinical Observations / Notes

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