

ANATOMICAL KIDNEY FUNCTION

Clinical Reference Chart

PRIMARY FUNCTIONS

Filtration

Removal of metabolic waste products (urea, creatinine) from the bloodstream.

Homeostasis

Regulation of electrolyte balance (Sodium, Potassium) and fluid volume.

Endocrine

Production of Erythropoietin (RBC production) and Renin (Blood pressure).

Acid-Base Balance

Reabsorption of bicarbonate and excretion of hydrogen ions to maintain pH.

ANATOMICAL STRUCTURES

- Renal Cortex *Outer layer*
- Renal Medulla *Inner pyramids*
- Nephron *Functional unit*
- Glomerulus *Capillary network*
- Bowman's Capsule *Filtrate collection*
- Renal Pelvis *Funnel to ureter*
- Loop of Henle *Urine concentration*

NOTES

TEMPLATE ONLY - NOT FOR CLINICAL DIAGNOSIS