

Physiology

Proximal tubule: all electrolytes, glucose and amino acids

Descending Henle: WATER

Ascending Henle: Na-K-2Cl
Ca, Mg (passively)

Distal tubule: Na-Cl
Ca (PTH)

Collecting duct: Water (ADH)
Na (aldosterone)
K, H excretion (aldosterone)

Physiology

acid-base balance: HCO_3^- reabsorption, H^+ excretion

electrical neutrality: Cl^- follows Na^+

PTH \rightarrow Ca reabsorption, PO_4 excretion

Failure

Hypervolemia

hypoNa

HyperK

hypoCa

HyperPO₄

HyperMg

Metabolic acidosis



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