

### 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:**  $\text{HCO}_3^-$  reabsorption,  $\text{H}^+$  excretion

**electrical neutrality:**  $\text{Cl}^-$  follows  $\text{Na}^+$

PTH → Ca reabsorption,  $\text{PO}_4$  excretion

### Failure

**Hypervolemia**

**hypoNa**

HyperK

**hypoCa**

Hyper $\text{PO}_4$

HyperMg

**Metabolic acidosis**



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