

The Nephron

Biology

Filtration, reabsorption and secretion, region by region.

What happens in each part of the nephron.

Region	Process
Glomerulus	Ultrafiltration by pressure
Bowman's capsule	Collects the filtrate
Proximal tubule	Reabsorbs ~65%: glucose, amino acids, ions
Loop of Henle	Creates the medullary concentration gradient
Distal tubule	Fine ion control; aldosterone acts here
Collecting duct	Water reabsorption under ADH

ADH from the posterior pituitary makes the collecting duct permeable to water. Alcohol suppresses ADH, which is why it dehydrates.