

Kidney

Secretion from an organ

Stimulatory signal

Passive transport

Active transport

Reaction

Inhibitory signal

Tubular NA+ CI- reabsorption and K+ excretion. H2O retention.

Adrenal gland cortex

Aldosterone secretion

Arteriole

Arteriolar vasoconstrictionIncrease in blood pressure.

ADH secretion

Pituitary gland: posterior lobe

Angiotensinogen

Water and salt retention. Effective circulating volume increases. Perfusion of the juxtaglomerular apparatus increases.

Sympathetic activity

Collecting duct: H2O absorption

Surface of pulmonary and renal endothelium: ACE

Decreases in renal perfusion (juxtaglorular apparatus)

Renin

Kidney

Kidney

Lungs

Liver

Angiotensin II

Angiotensin I