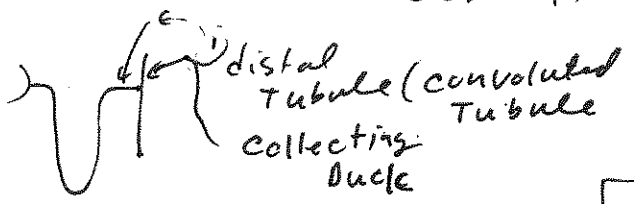
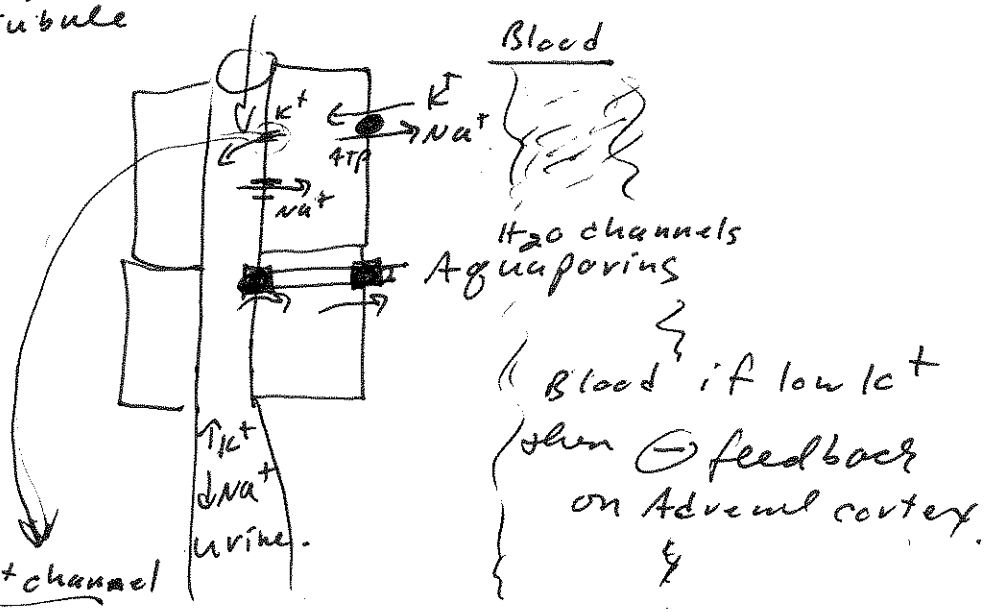
From.
Aldosterone. (Adrenal Cortex) Na^+ Reabsorbtion H_2O follows.

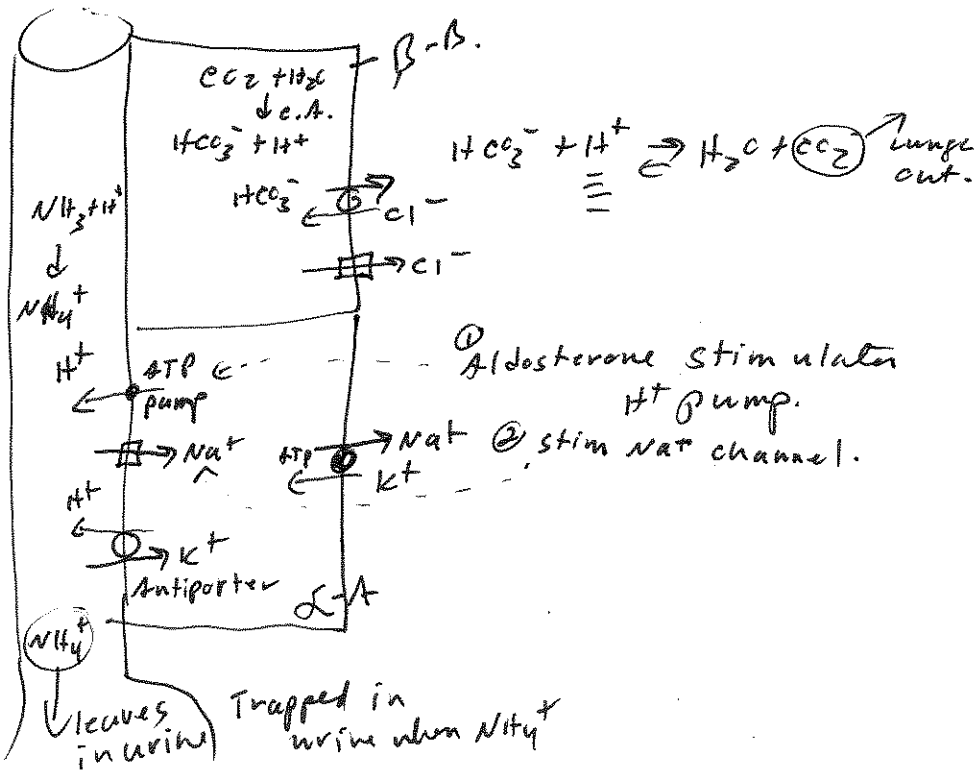




Adrenal cortex
cholesteral
↓
Aldosterone
Actions 1. ↑ Na^+ channel
2. ↑ K^+ channel in membran.
↑K^+ Stim.
Angiotension-2
↳ post. pit.
↳ ADH
↳ collecting Duct
↑ Aquaporins.

α-cell acid loss

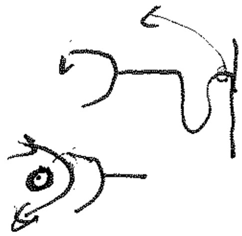
β-Hold acid.

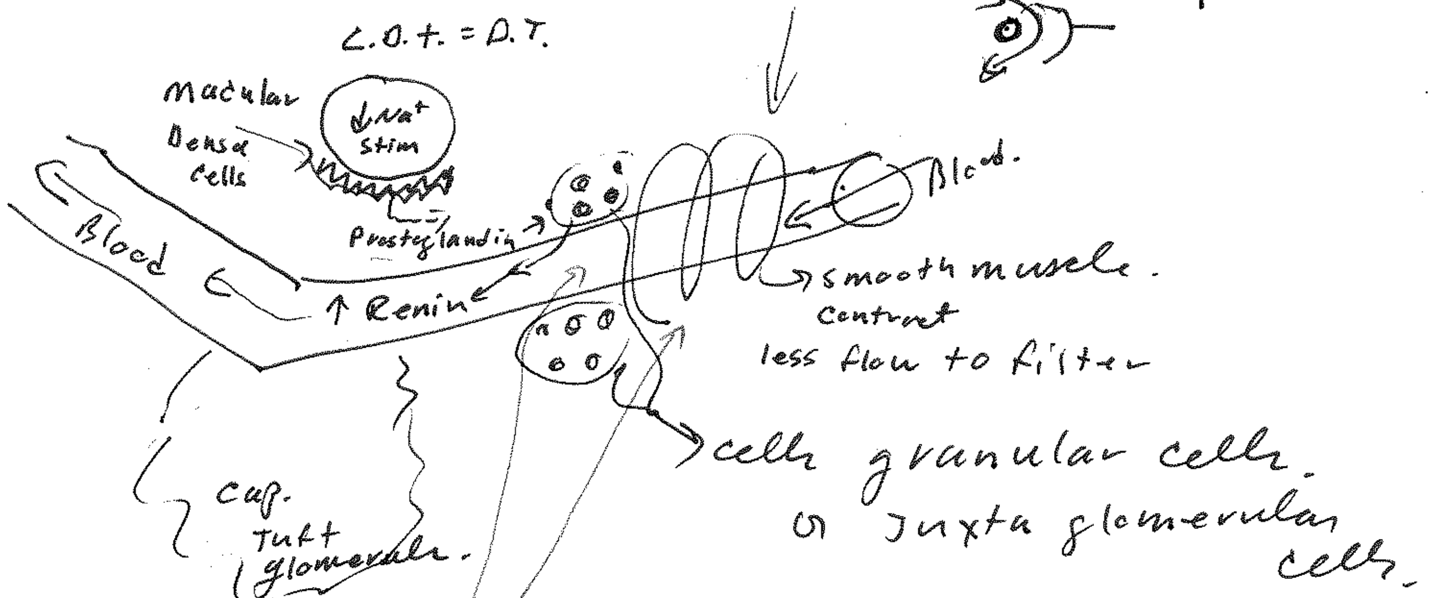


$HCO_3^- + H^+ \rightleftharpoons H_2O + CO_2$ lungs out.

① Aldosterone stimulates H^+ pump.
② stim Na^+ channel.

Juxtaglomerular Apparatus





1. Sympathetic N.S. → ↑ Renin.
2. ↓ BP → ↑ Renin
3. ↓ Na^+ (macular densa) ↳ prost → granular ↑ Renin

(prus) Ace inhibitors ↓BP.

Lungs/kidneys other tissues.

A.C.E. converting Enzyme.

<u>Liver</u>

Angiotensinogen. Inactive (Large Pr.) —Renin→ Angiotensin 1 —A.C.E.→ Angiotensin 2 (<u>Active</u>) <u>vaso.constrict.</u>

Ango-2 Hormone → ↑ B P, ↑ vaso constrict, ↑ B.vol.

* smooth muscle.
* pit. gland (post) → ↑ ADH → ↑ B.V.
* <u>Na^+ Reabsorbtion</u> kidney → ↑BV → ↑BP.

Via Adrenal cortex → ↑ Aldosterone ↑ Na^+ → ↑BV → ↑BP.

RAAS
Renin-Angio-Aldos-system