

Adrenal gland

or.
Supra-renal gland. (on the basis of its location)

3F gland ^{or} (Fear, Fright & Fight)

✓ 45 gland (Hormonal function) Flight

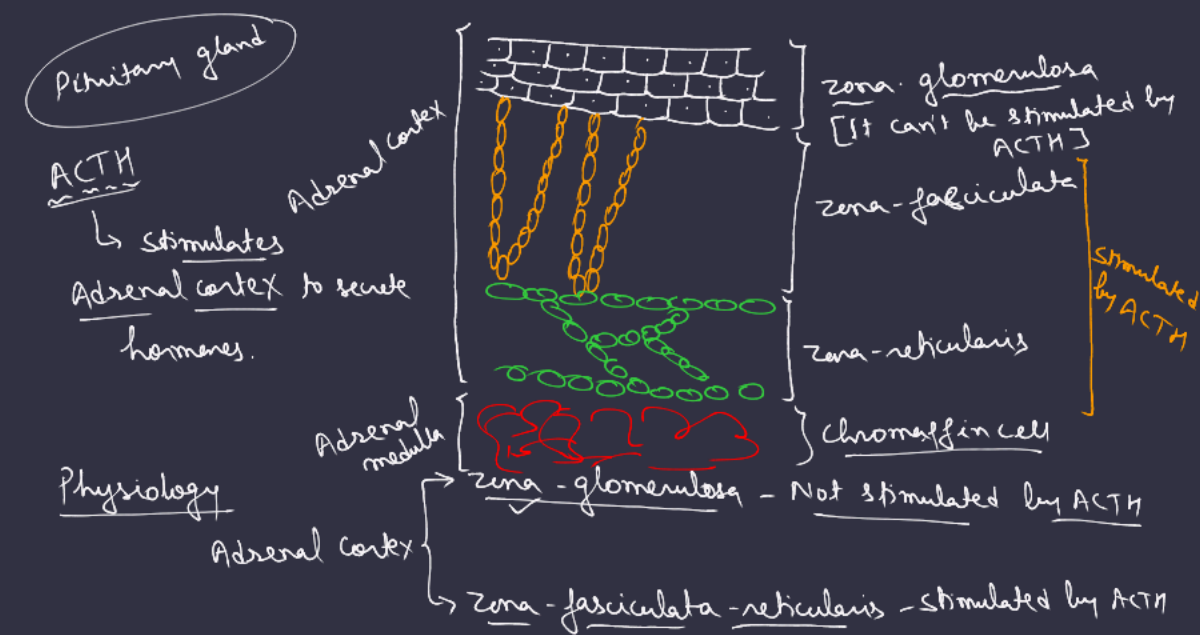


Origin - Dual in Origin.

Adrenal cortex - mesodermal in origin

Adrenal medulla - Ectodermal in origin.

Structure :-



Hormones of Adrenal Cortex:-

① Control:-

Glucocorticoids :-

It increases level of sugar in blood.

→ Glycogenolysis :- Conversion of glycogen into glucose.

→ Gluconeogenesis: Increases.

↓ ↓ ↓
Carbohydrate New Generate
Non-Carbohydratic

[All hormones secreted by adrenal glands are steroid.]



2. Aldosteron :-

mineralocorticoides - minerals - Balance.

Na⁺ Reabsorption in nephron/kidney

3. Sexocorticoids :-

(Androgen)

It develops secondary sexual character of both male & female.

Disorder :-

Cushing's disease :- Hypersecretion of glucocorticoids.
(oversecretion)

Addison's disease :- Hyposecretion of mineralocorticoids
(mineral - imbalance)

Gynecomastia:- Hypersecretion of sexosteroides in male.

⇒ Increase in size of breast.

⇒ Absence of boldness.

Adrenal virilism :- Hypersecretion of sexosteroids in female.

⇒ Beard, moustache in female.

