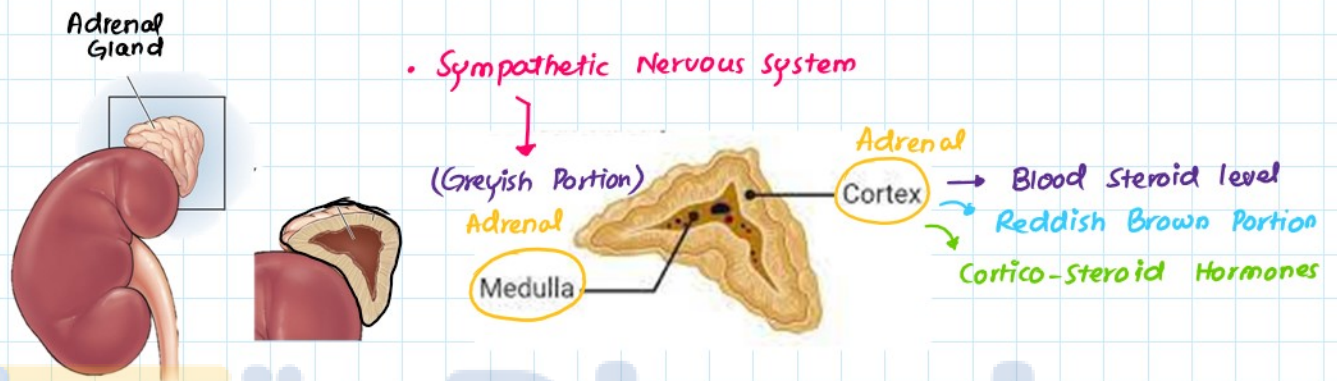


ADRENAL GLAND

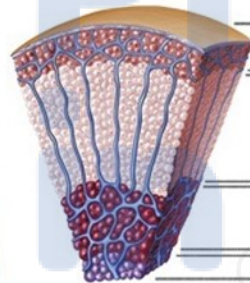


ADRENAL CORTX

Zona Reticularis

Tumor (Female)

- Resemble with male body
- It affects female fertility



Capsule

Zona Glomerulosa

Zona Fasciculata

Zona Reticularis

Medulla

Mineralo corticoid

Glucocorticoid

Androgens (Secreted in both Sexes)

- Sec. male characters
- Facial Hairs
- Deepening of voice
- Muscle Mass ↑↑

CORTICO- STEROID HORMONES

GLUCOCORTICOID

GLUCO-MINERALO

MINERALOCORTICOID

- Anxiety ↑↑
- Fever ↑↑
- Disease ↑↑
- CORTISOL
- Glucose metabolism
- Hydrolysis of A-Acid ↑↑
- Inflammatory Response ↓↓
- Pain ↓↓

CORTICO- STERONE

Whenever there is absence of Hormone

ALDOSTERONE

- Reabsorption of Na^+ & Cl^-
- Maintains
- Blood Volume
- Blood Pressure

CUSHING'S DISEASE (Moon-Faced Disease)

- Obesity
- Muscle Wasting
- Hypertension
- Diabetes

↑↑ CORTISOL SECRETION ↓↓

ADDISON'S DISEASE (Auto-immune disorder)

- Weakness
- Weight loss
- Low Blood Sugar
- Blood Pressure ↓↓ (Hypo-tension)

Aggressive Behaviour ↑↑

↓↓ Failure to Face Stress

ADRENAL MEDULLA

Aggressive Behaviour ↑↑

Failure to Face Stress

ADRENAL MEDULLA

ADRENALINE

(Epi-nephrine)

Vaso-dilator

Synergistically Action

→ Site of Action

different

→ Ultimate affect

is same

- HEART BEAT
- BLOOD GLUCOSE
- BREATHING RATE
- METABOLISM

NOR-ADRENALINE

(Nor- Epinephrine)

Vaso-constrictor

Gland	Secretion	Control of production	Function	Over-secretion	Under-secretion
Adrenal (2 on top of kidneys) Adrenal Medulla	Adrenalin	Stress	Vasodilation (skeletal muscles), increase in cardiac output, release of glucose from glycogen, reinforcing sympathetic system, increase in blood pressure	Overactivity	Person cannot face and prepare in emergency condition
	Noradrenalin	Stress along with adrenalin	Vasoconstriction (Gut)	Same as above	
Adrenal Cortex	Corticosterone (glucocorticoid and mineralocorticoid) Cortisol (glucocorticoid) and aldosterone & androgens (testosterones)	ACTH	Increase in blood glucose level antagonistic to insulin, Na^+ uptake, secondary sexual characters.	Cushing's disease (excessive protein breakdown, muscular & bone weakness, disturbance in metabolism, high blood glucose causing diabetes. Over secretion of testosterone in female (rare) causing appearance of male characters	Addison's disease (general metabolic disturbance, muscle weakness, loss of salts, loss to deal stress).

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