



Sports & Physical
Education

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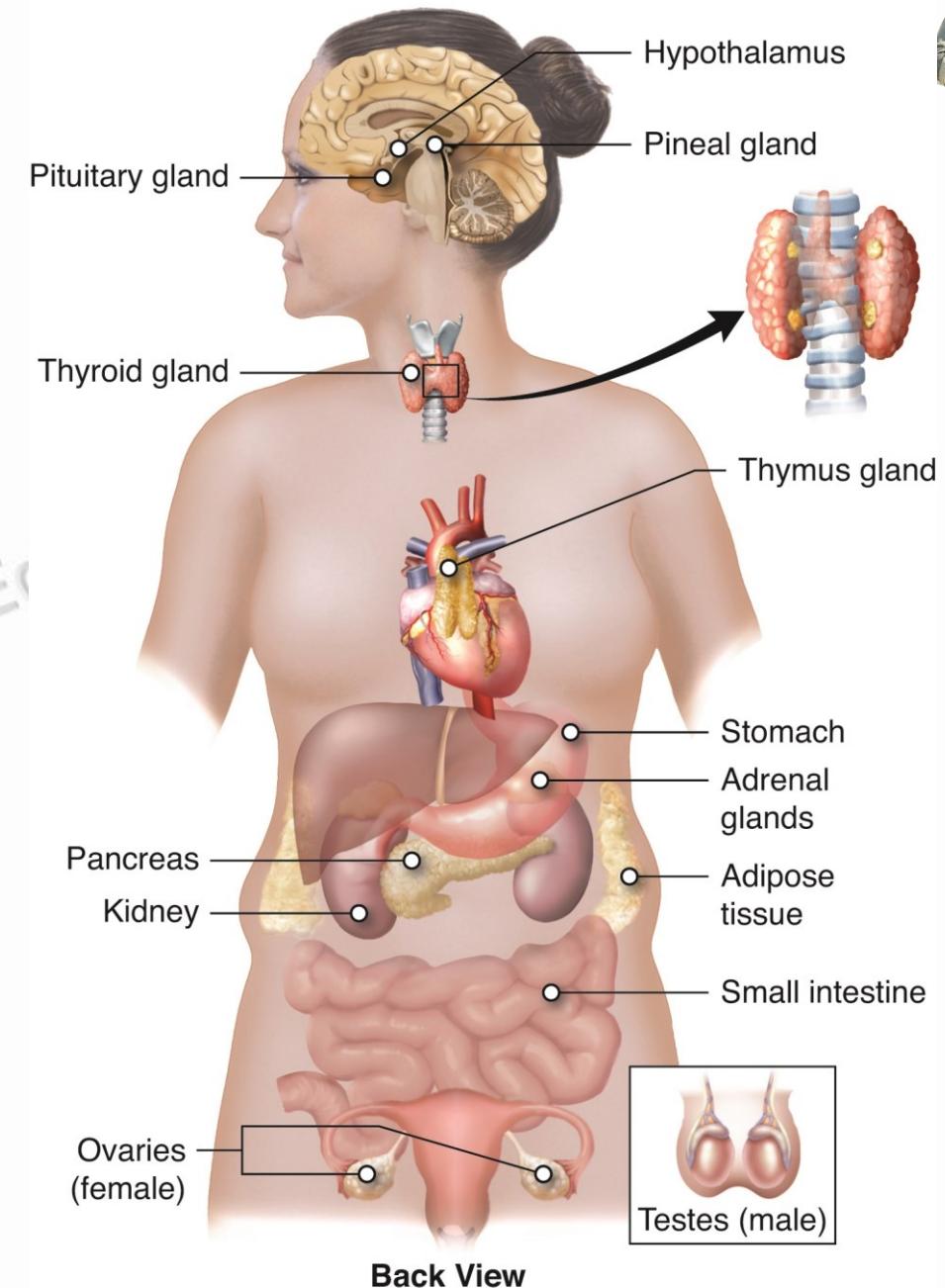


Endocrine System



Glands

- Glands are important organs located throughout the body. They produce and release substances such as hormones, digestive juices, sweat, tears, saliva, or milk. that perform certain functions.





Glands



Exocrine Glands

- Enzyme Secretion
- Duct Gland

- Sweat Gland
- Salivary Gland
- Mammary Gland
- Lacrimal Gland
- Sebaceous Gland
- Gastric Gland
- Cerumen Gland
- Meibomian Gland

Endocrine Glands

- Hormone Secretion
- Ductless Gland

- Pineal Gland
- Pituitary Gland
- Thyroid Gland
- Parathyroid Gland
- Thymus Gland
- Adrenal Gland
- Gonads Glands

Mixed Glands

- Hormone & Enzyme Secretion

- Pancreas Gland
- Liver



Endocrine Glands

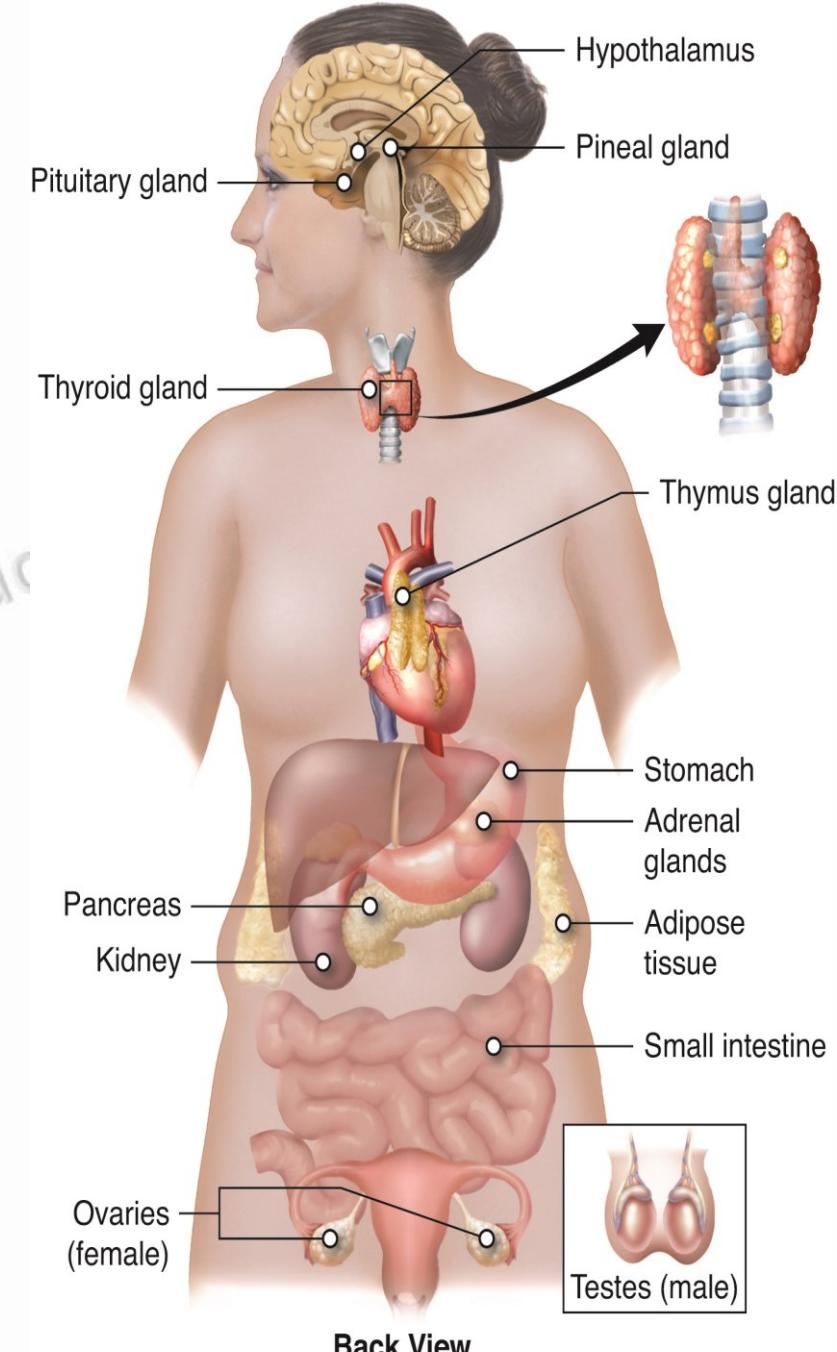


1. Pineal Gland

- **Smallest Gland**

(0.3 inches long and weighs 0.1 grams.)

Pineal gland is located deep in the center of your brain. It secretes and regulates certain hormones, including **melatonin**. Melatonin helps regulate your sleep patterns, which are also known as **circadian rhythms**.





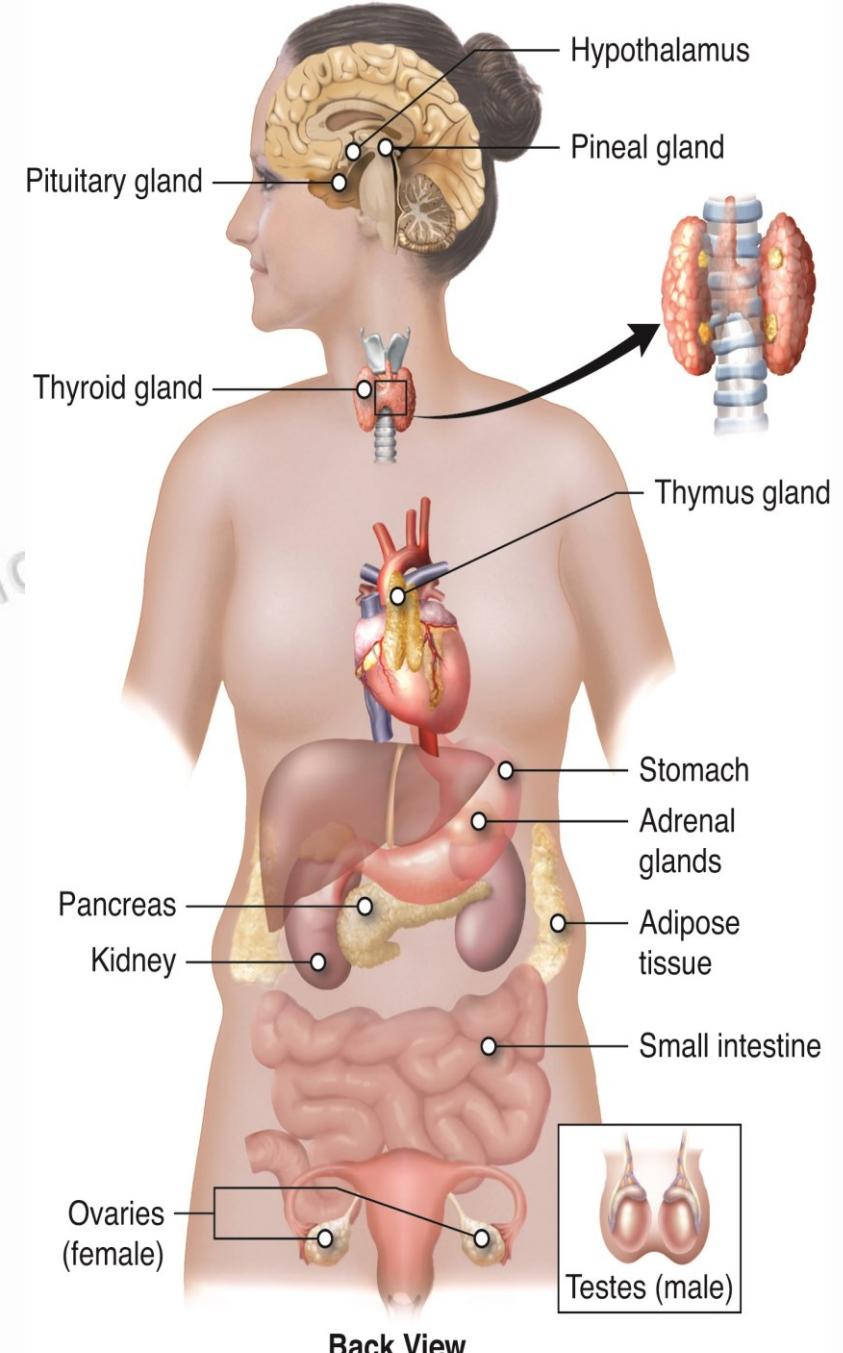
Endocrine Glands



2. Pituitary Gland

(Size of Pea, weight-0.5 grams.)

- **Master Gland**
- **Hypophysis**
- **Sphenoid Bone**





Pituitary Gland

Anterior Lobe



1. Somatotropic(SH) /Growth Hormone
2. Thyrotropic Hormone(TH)
3. Adrenocorticotropic Hormone(ACTH)
4. Gonadotropic Hormones(GH)



- a) Follicle Stimulating Hormone(FSH)
- b) Luteinising Hormone(LH)
- c) Prolactin Hormone(PH)

Posterior Lobe



1. Antidiuretic Hormone(ADH) or Arginine Vasopressin
2. Oxytocin Hormone



Endocrine Glands



3. Thyroid Gland

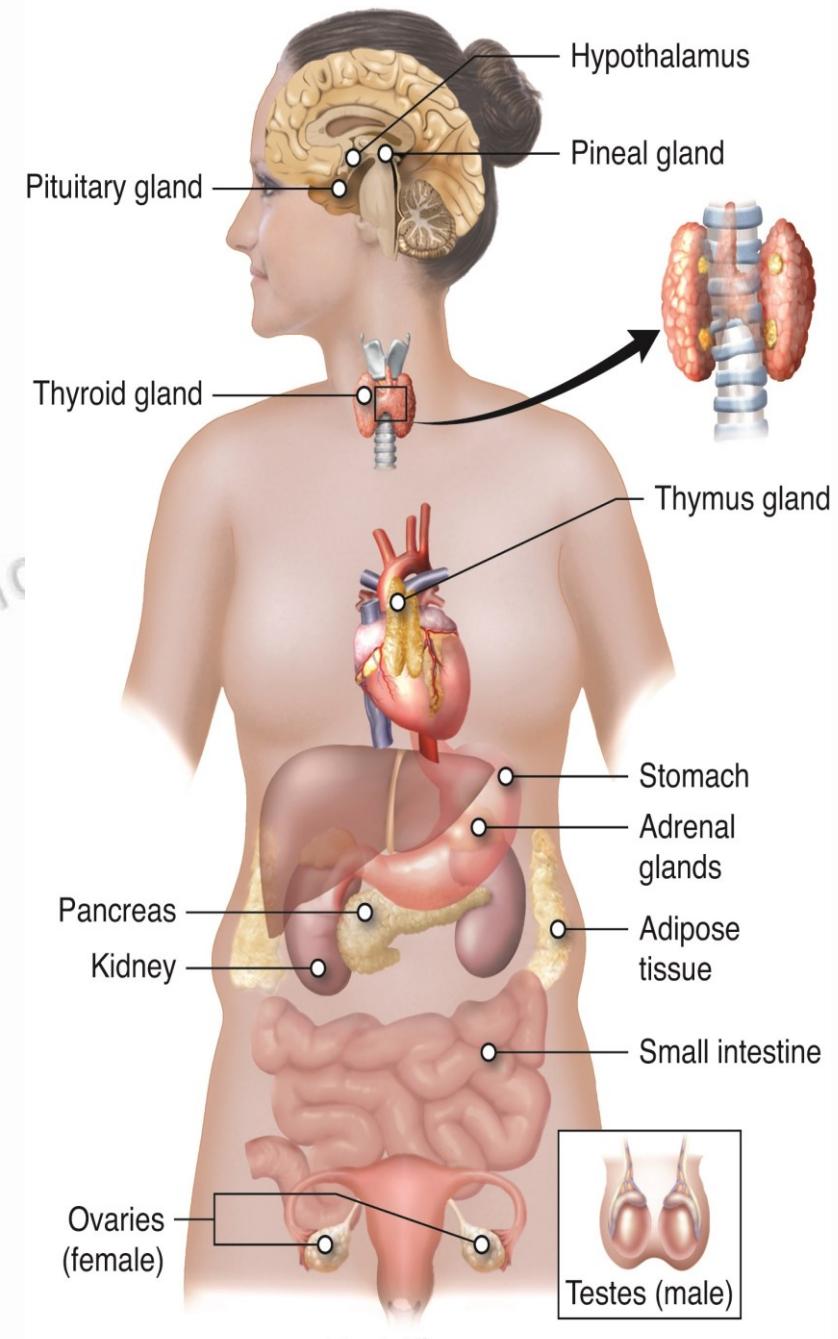
(weight-30-60 grams.)

- **Largest Endocrine Gland**
- **Function of Thyroid Gland-**

Secrete Two Hormones-

1. Triiodothyronine (T3) hormone
2. Thyroxine hormone (T4).

- Digestion
- Metabolism
- Heart and muscle function
- Brain development
- Maintenance of bones.





Endocrine Glands



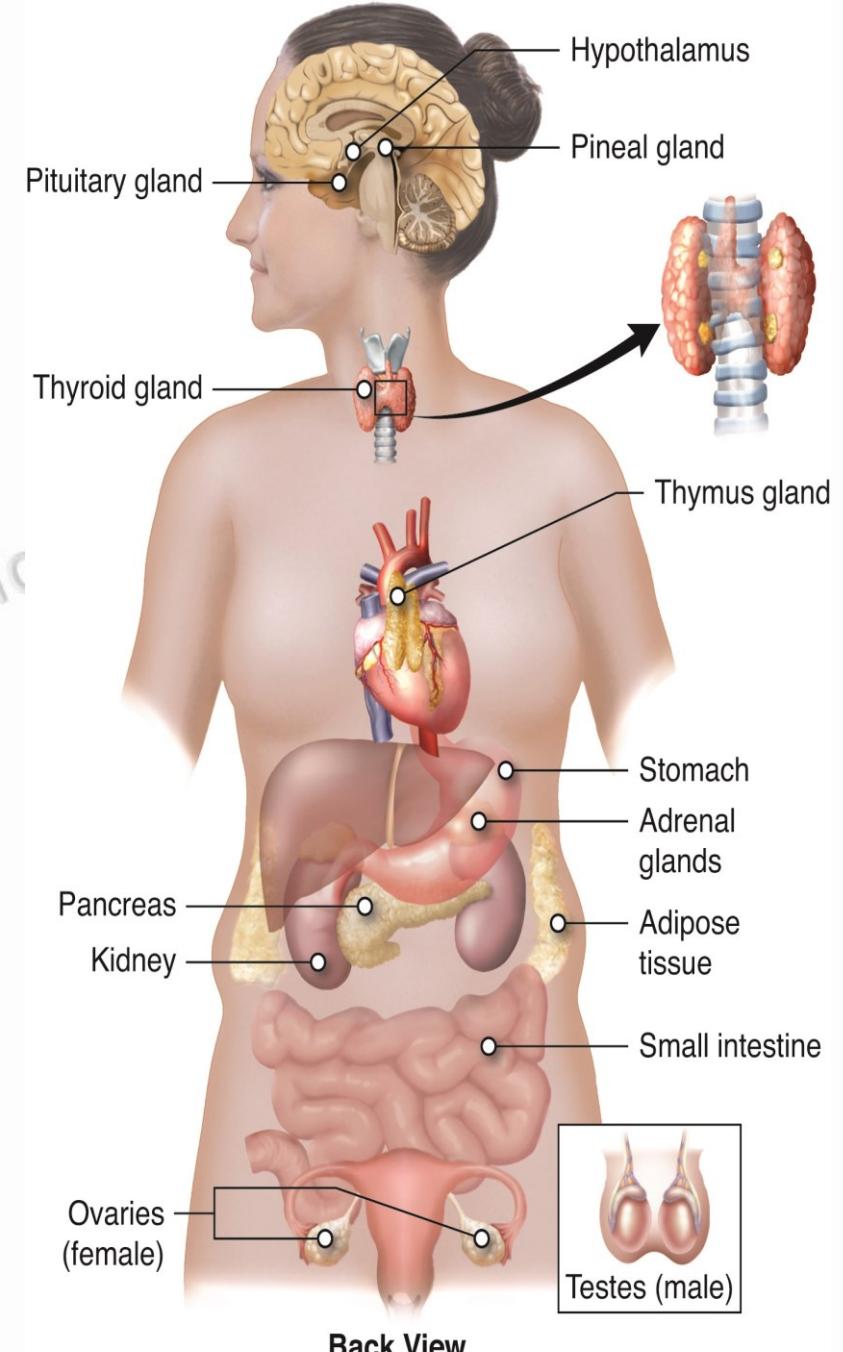
4. Parathyroid Gland (weight-30mg, Diameter-3-4mm)

Secretes – Two Hormone

- **Parathormone or Parathyroid Hormone**
- **Calcitonin Hormone**

➤ Function-

- Controls the level of calcium in the blood and bones.





Endocrine Glands

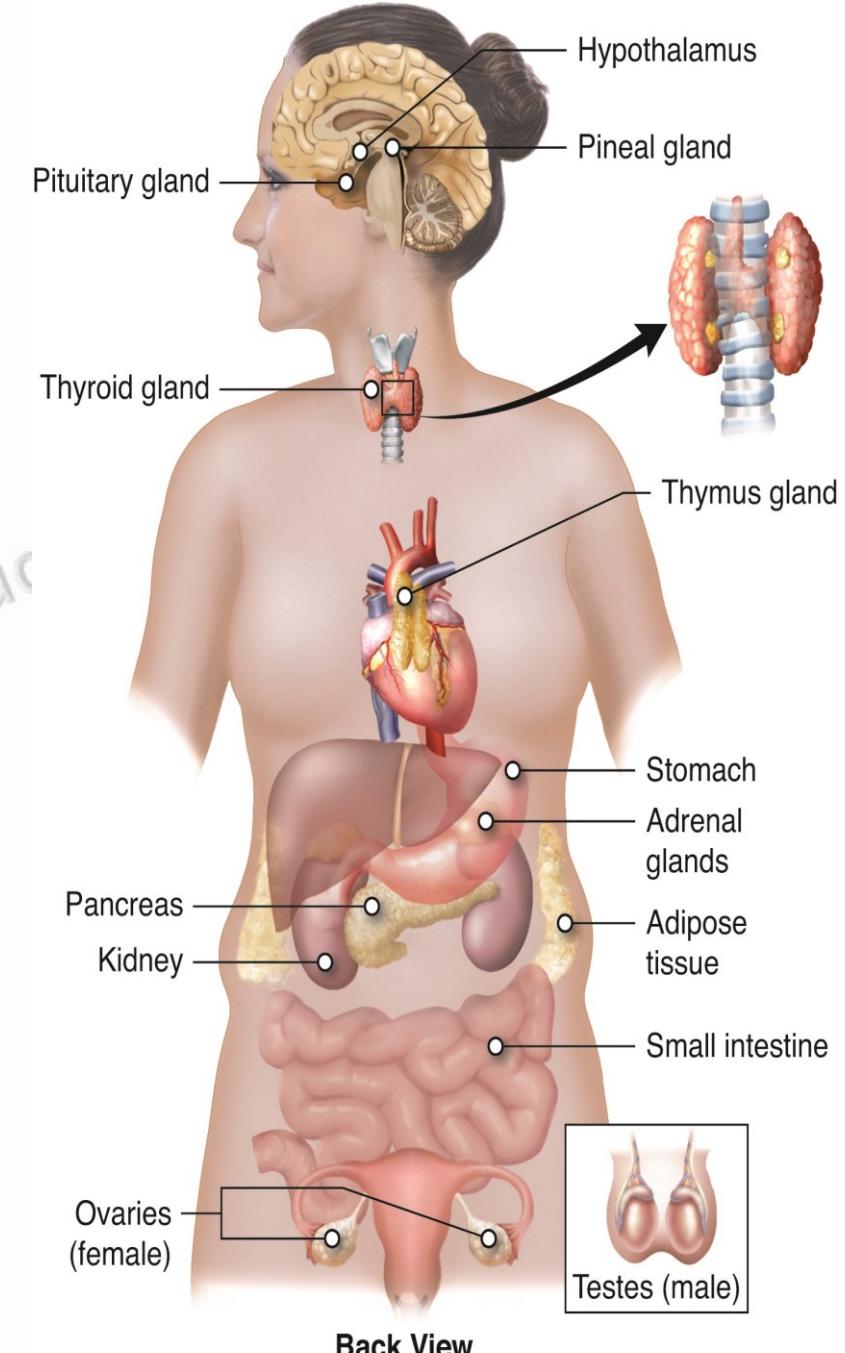
5. Thymus Gland

(weight-10g at the time of born, Teenage-30-40g)

Secretes – Thymosin Hormone

➤ Function-

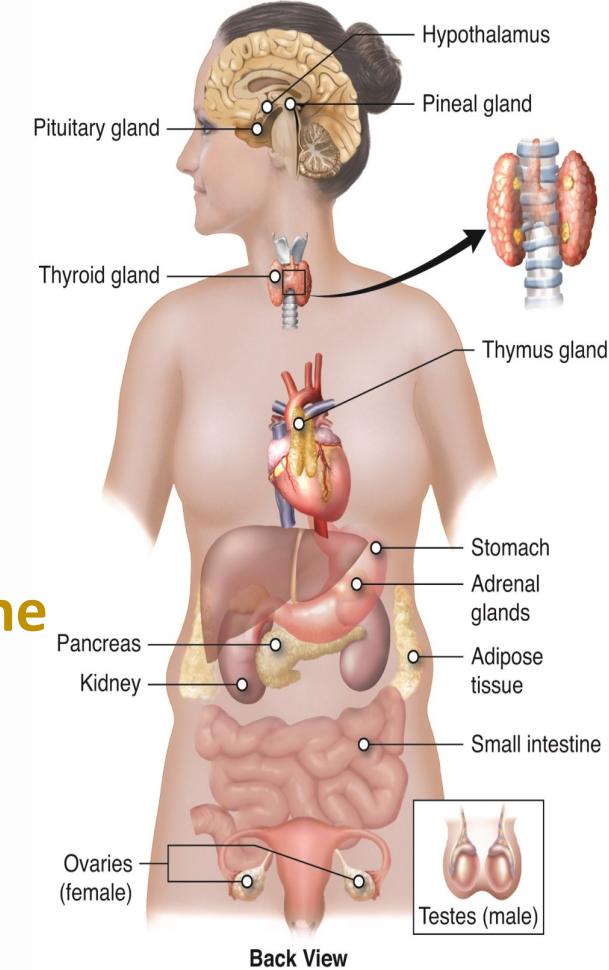
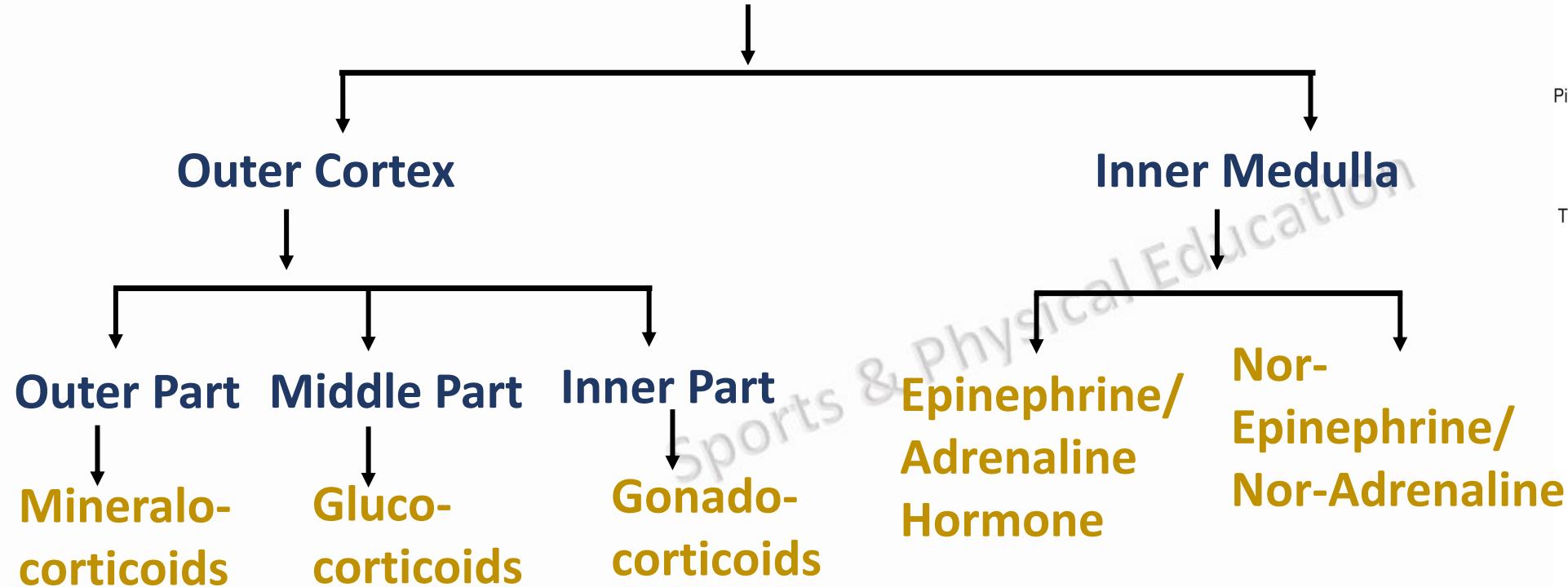
- Makes and trains special white blood cells called T-cells.
- The T-cells help your immune system fight disease and infection.





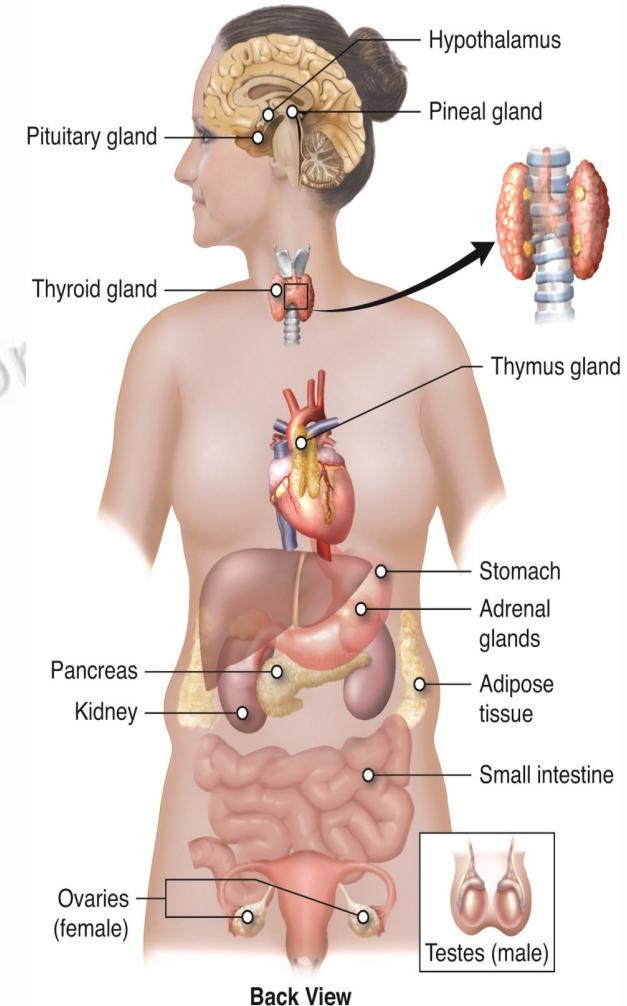
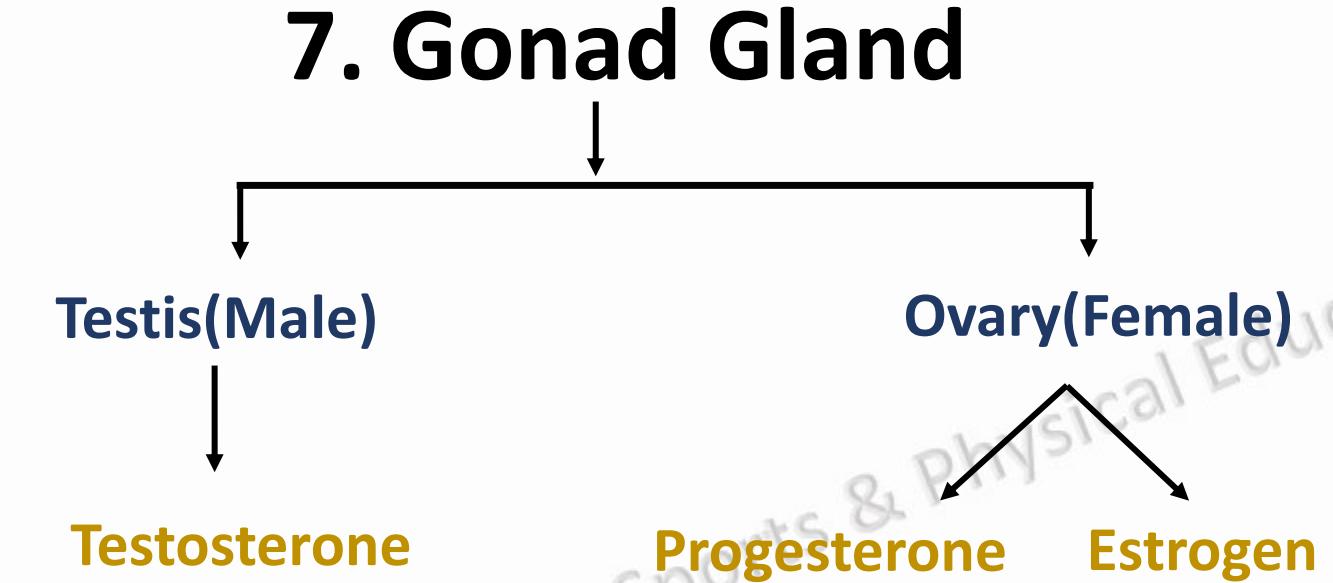
Endocrine Glands

6. Adrenal Gland





Endocrine Glands





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Thank You for Watching



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