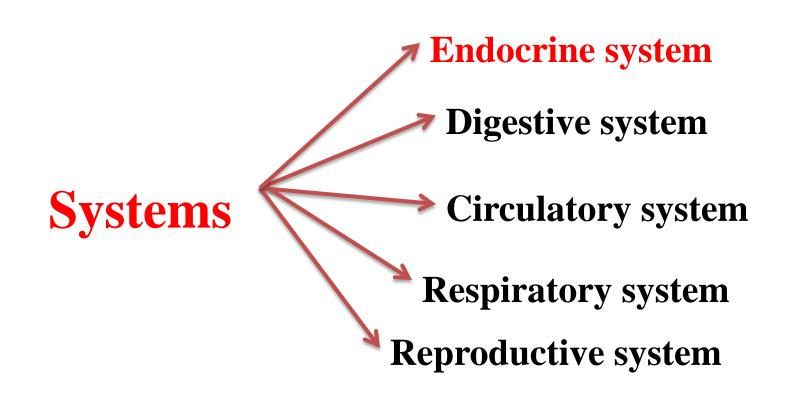
Systems

Lab: 6

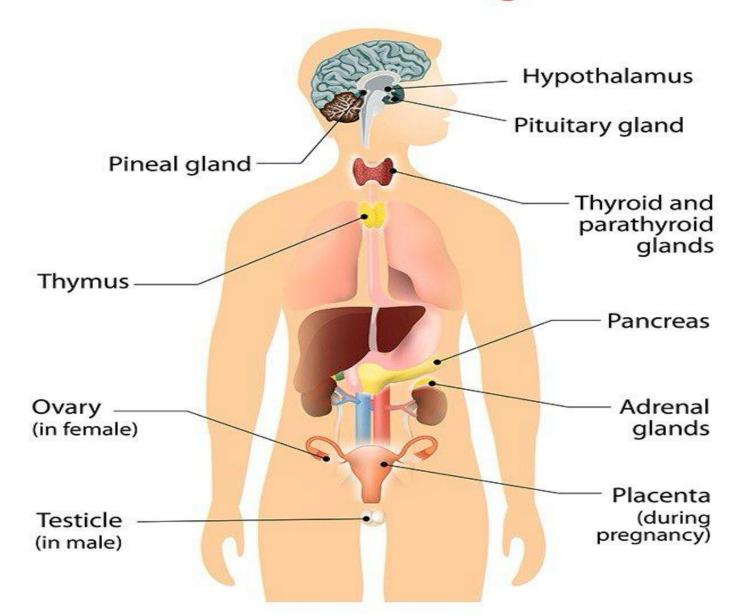
Stage: 1st

Course: 1st

By Assistant lecturer
Huda Muhammed Muzher
Sarah Mussa Mahmood



Endocrine System



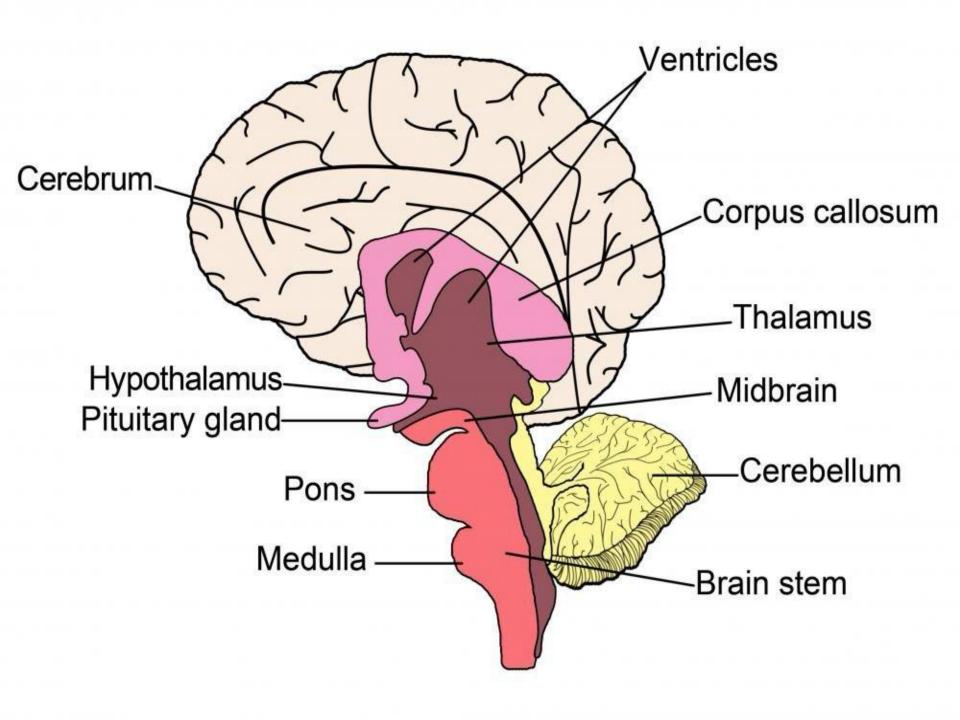
1- Hypothalamus

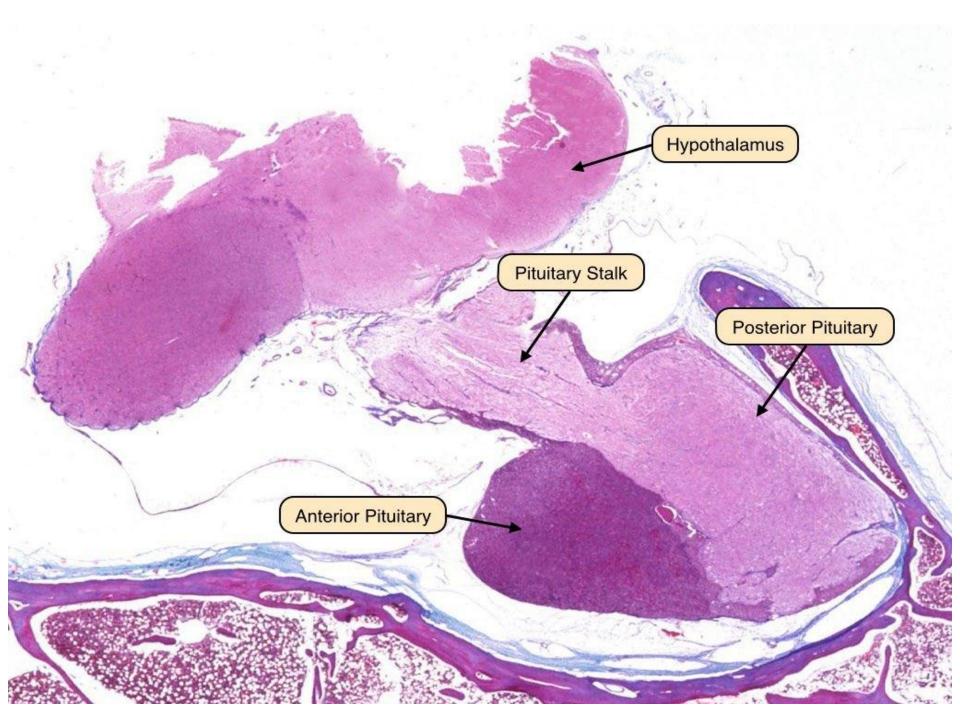
Location

in ventral brain above the pituitary gland and below ventricles

Hormones

- 1. Growth hormone releasing hormone (GHRH)
- 2. Gonadotropin-releasing hormone (GnRH)
- 3. Corticotropin-releasing hormone (CRH)
- 4. Thyrotropin-releasing hormone (TRH)
- 5. Dopamine
- 6. Oxytocin
- 7. Somatostatin





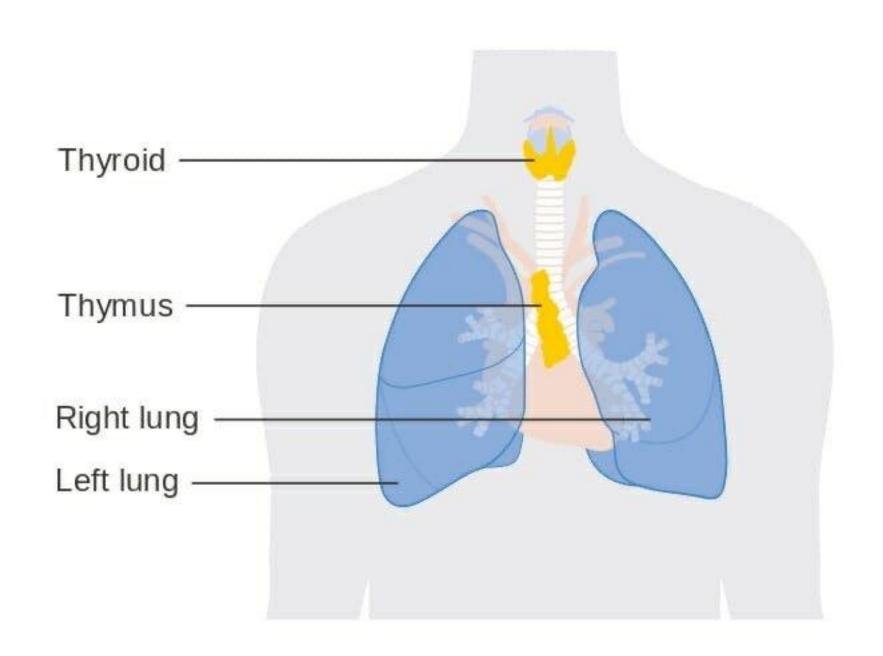
2- Thymus gland

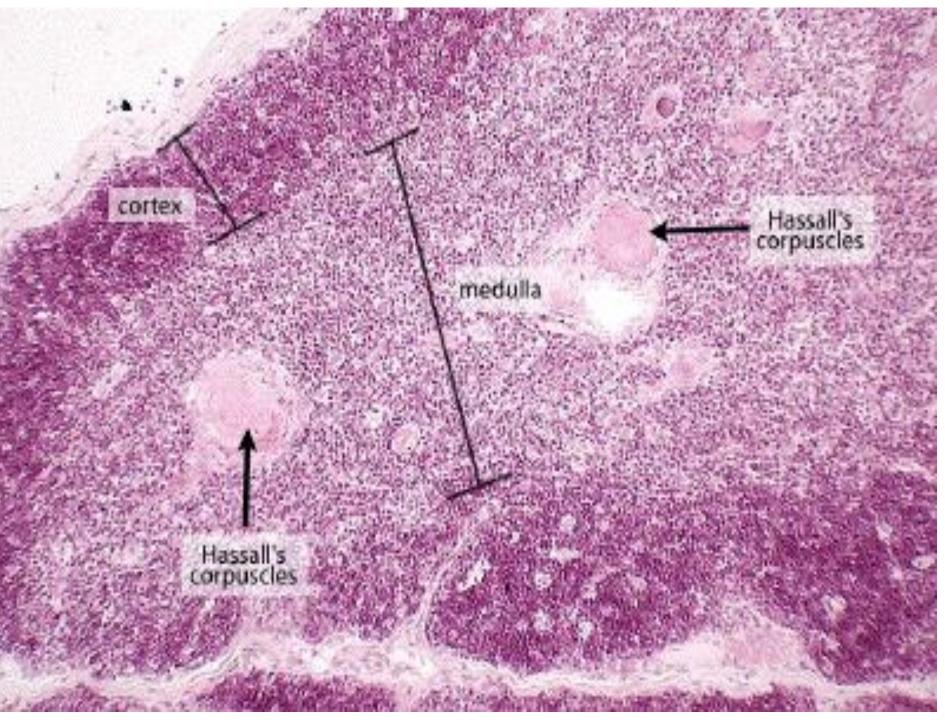
Location

Behind sternum, below thyroid

Hormones

- 1. Thymosin
- 2. Thymopoietin
- 3. Thymulin





3- Adrenal glands

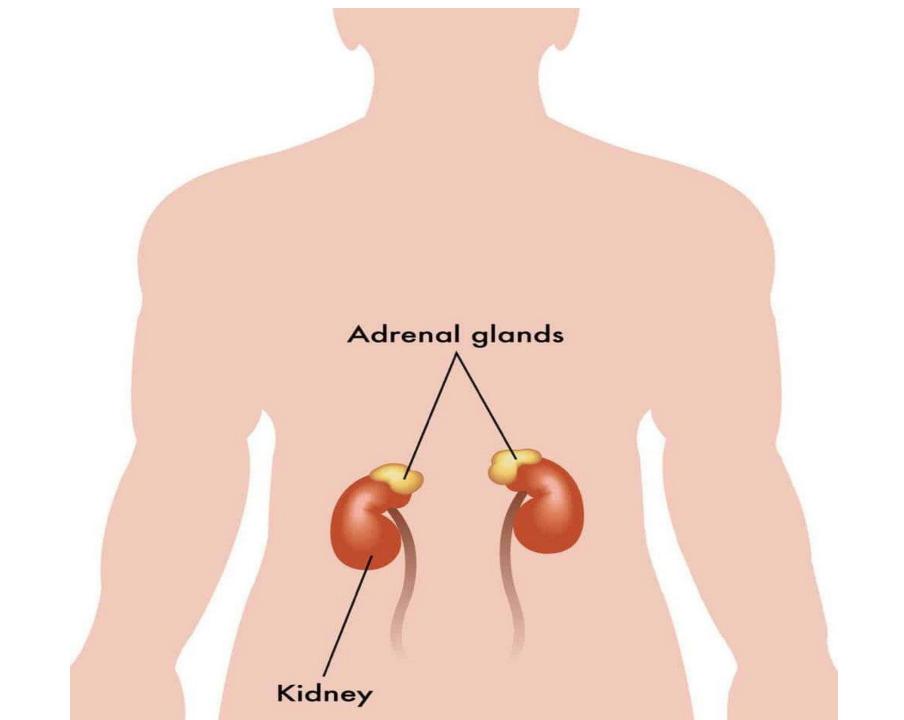
Also known as **suprarenal glands**.

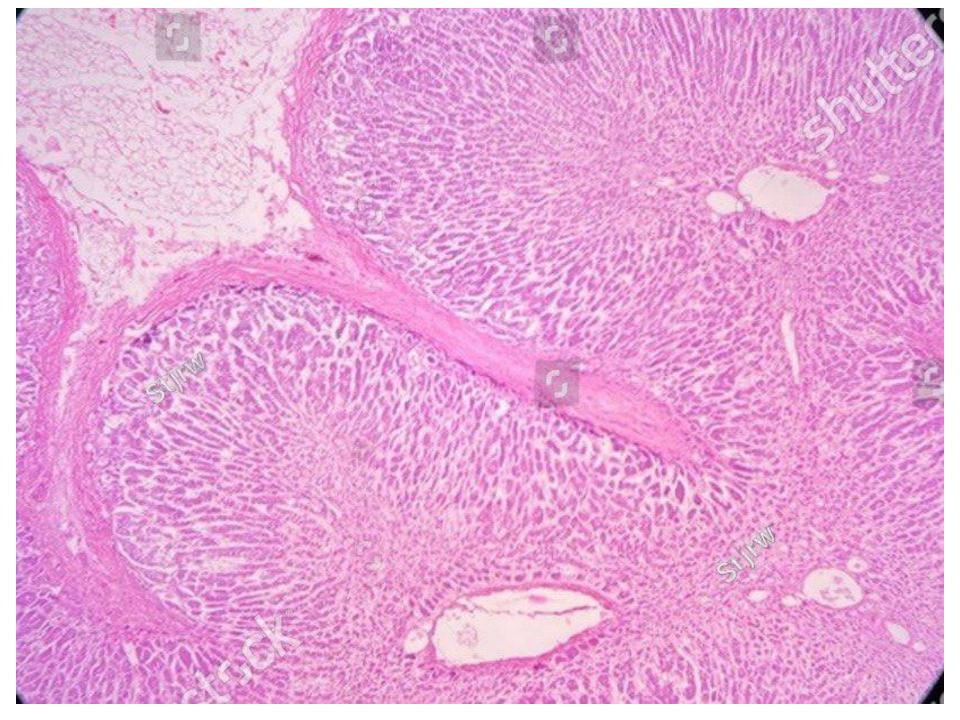
Location

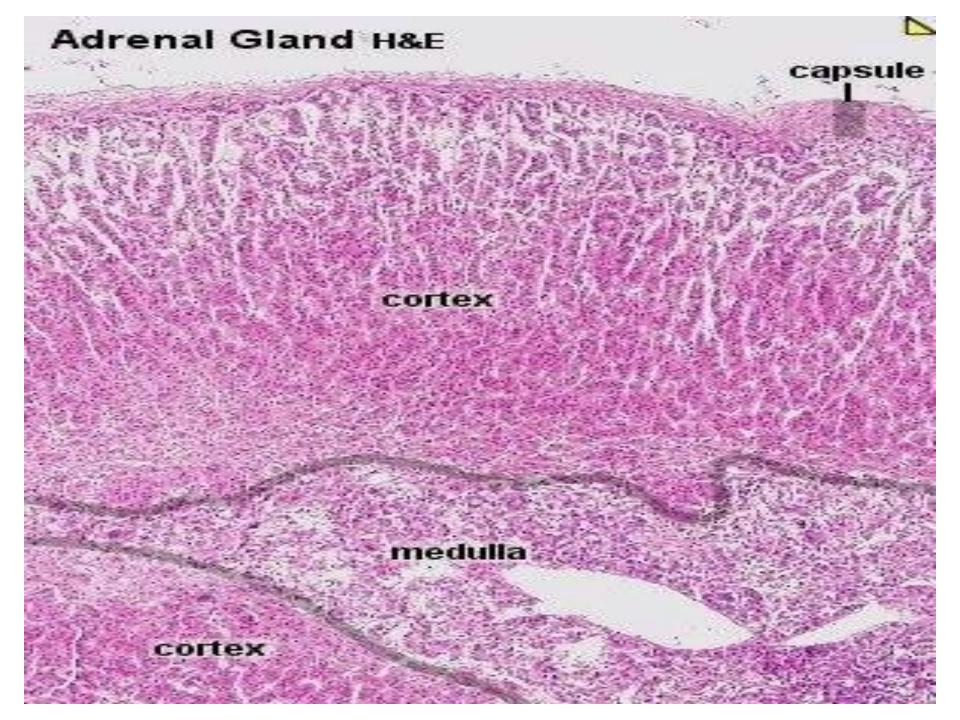
They are found above the kidneys.

Hormones

Aldosterone, cortisol, androgens, estrogen, epinephrine (adrenaline) and Norepinephrine (noradrenaline).







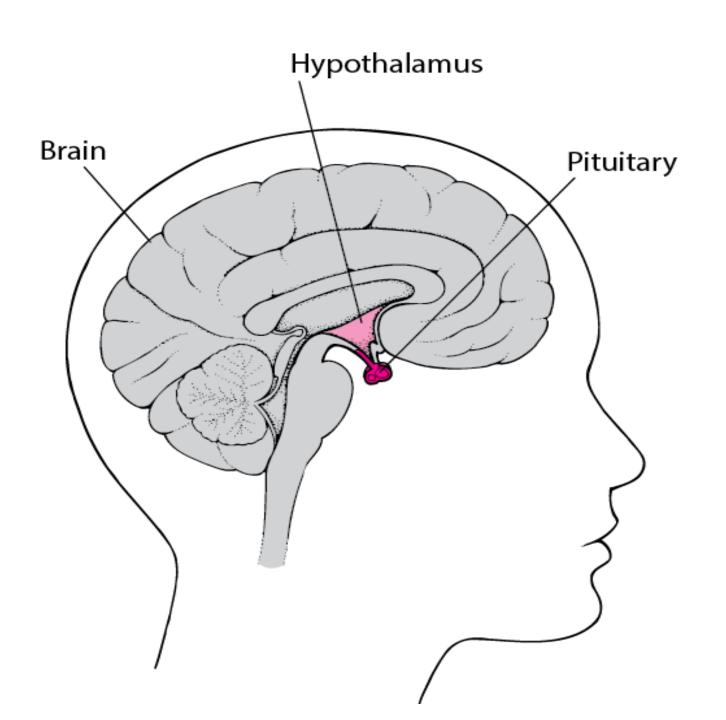
4- Pituitary gland

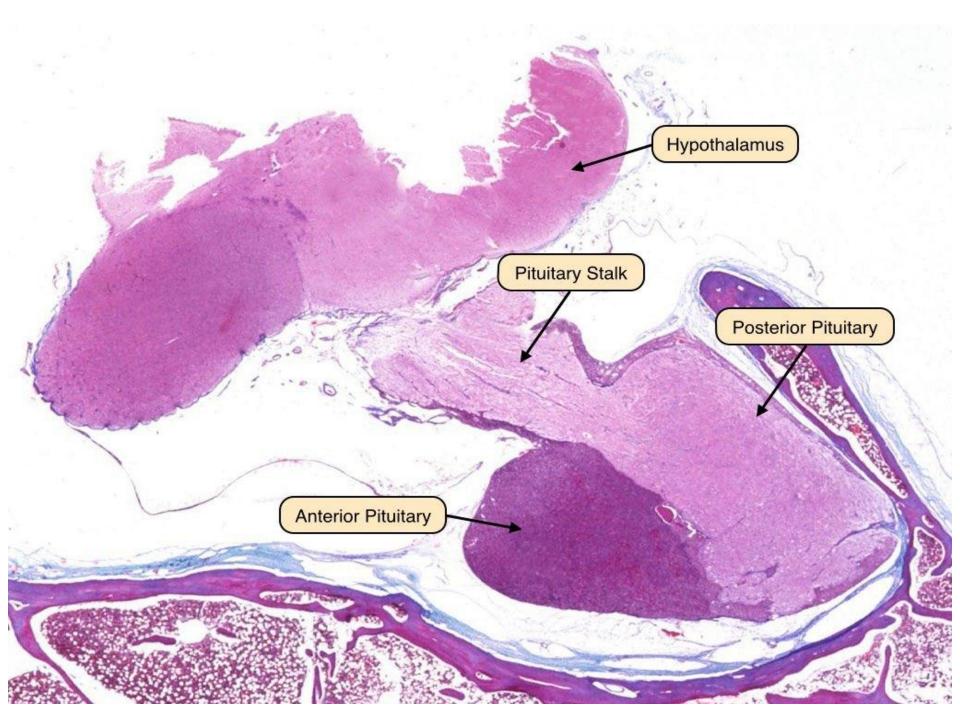
Location

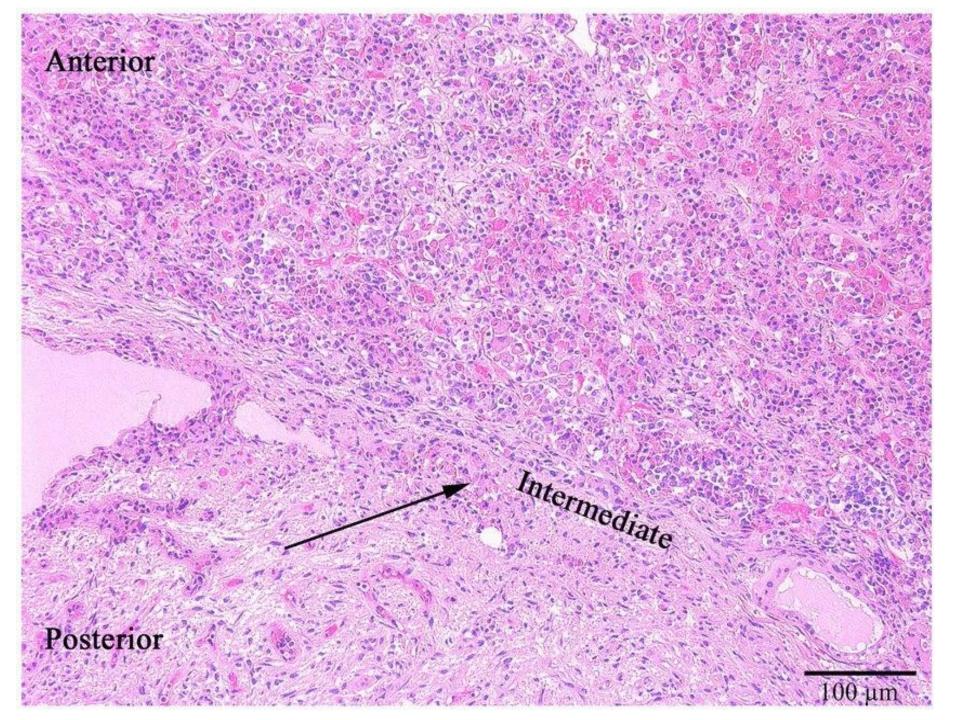
Attached to a stalk (infindibulum) at base of hypothalamus

Hormones

<u>Growth hormone</u>, thyroid stimulating hormone (TSH), prolactin, adrenocorticotrophic hormone (ACTH), <u>follicle</u> stimulating hormone (FSH), luteinising hormone (LH)







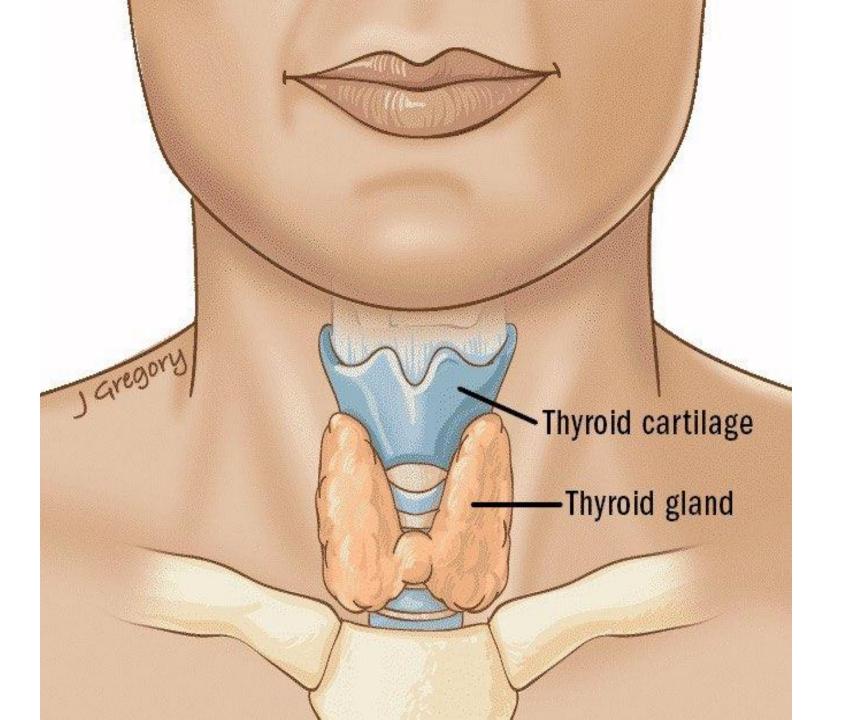
5- Thyroid gland

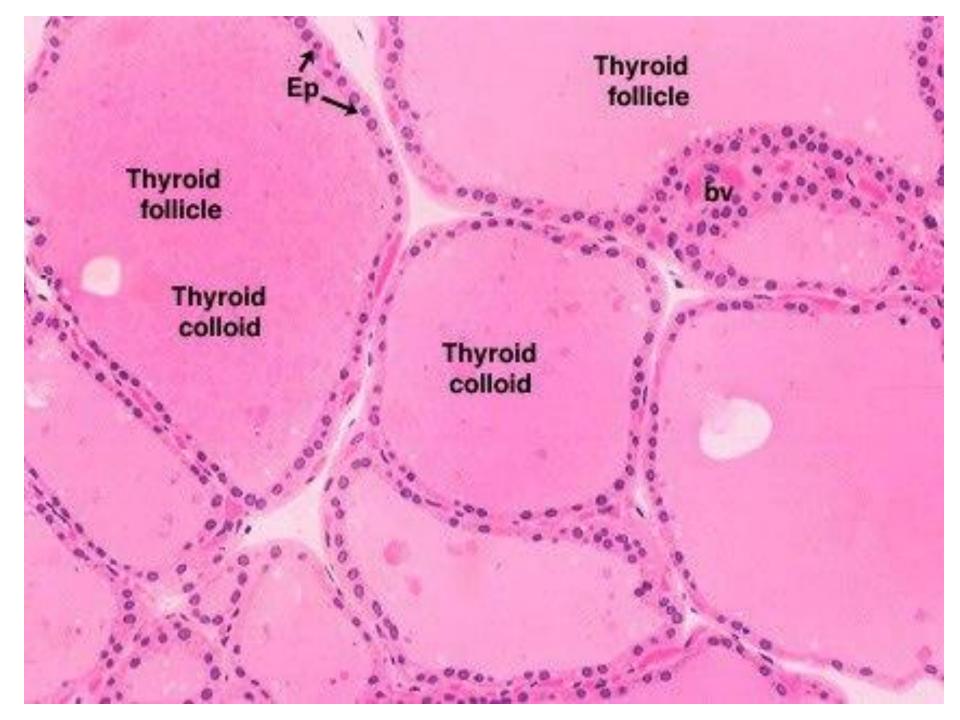
location

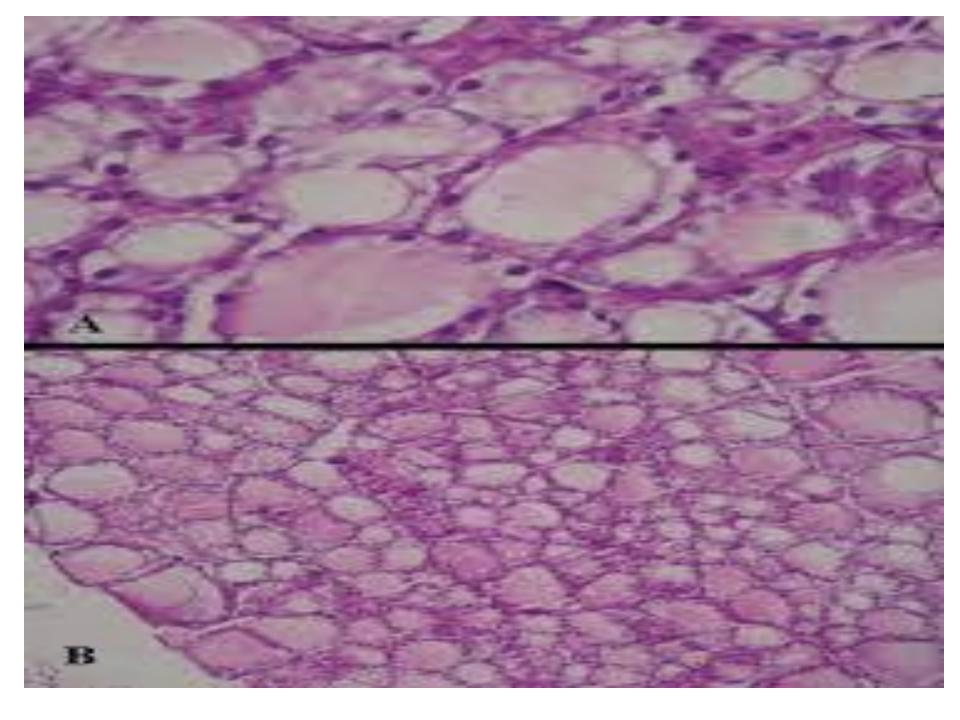
In the front of the neck, in front of the <u>thyroid</u> <u>cartilage</u>, and is shaped like a butterfly

Hormones

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







6- Parathyroid glands

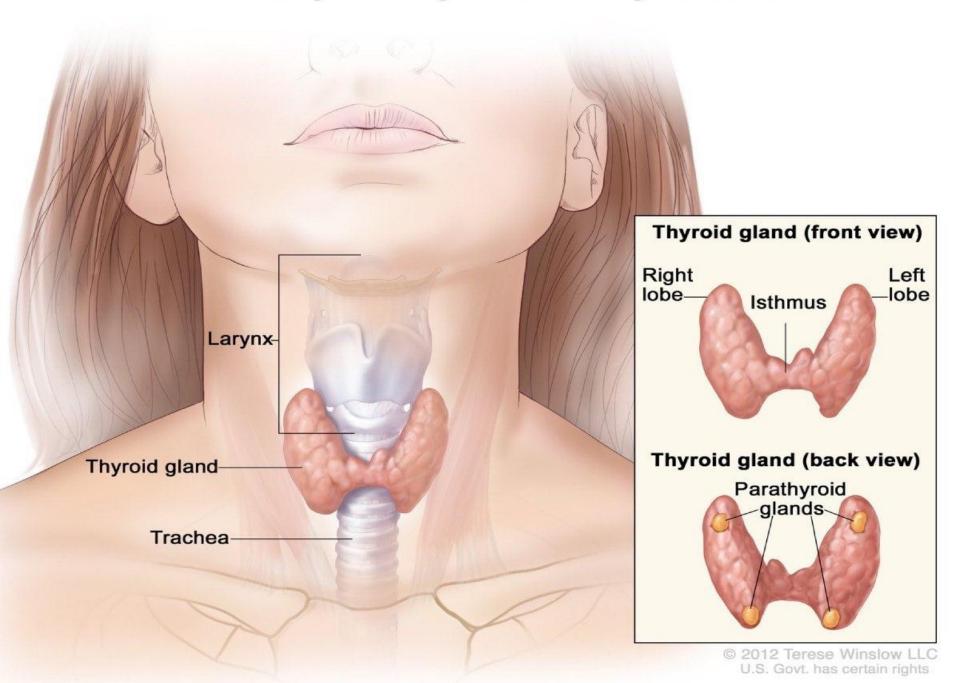
Location

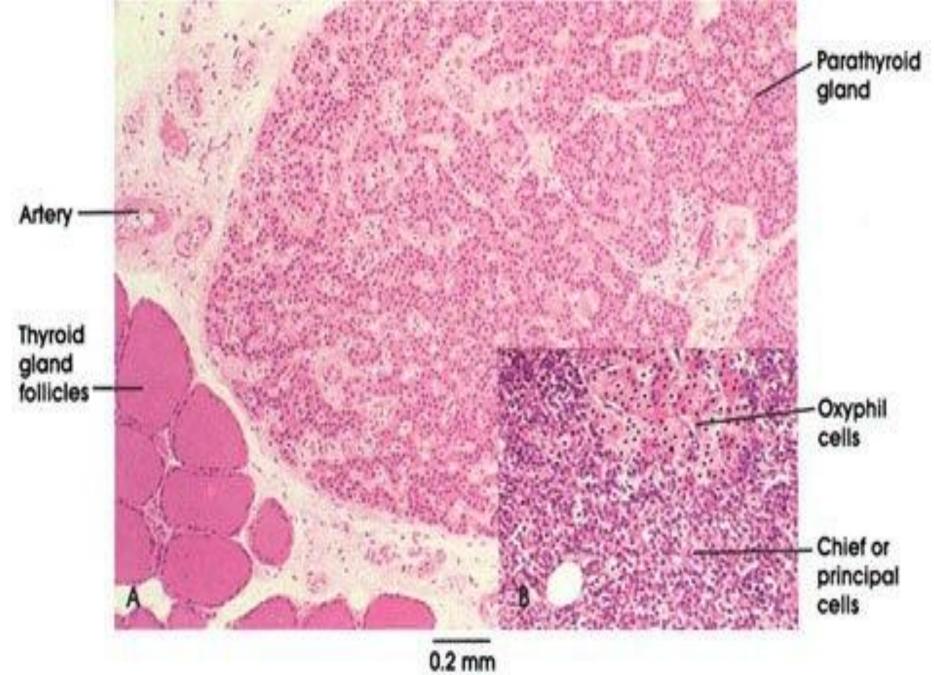
On the back of the thyroid glands

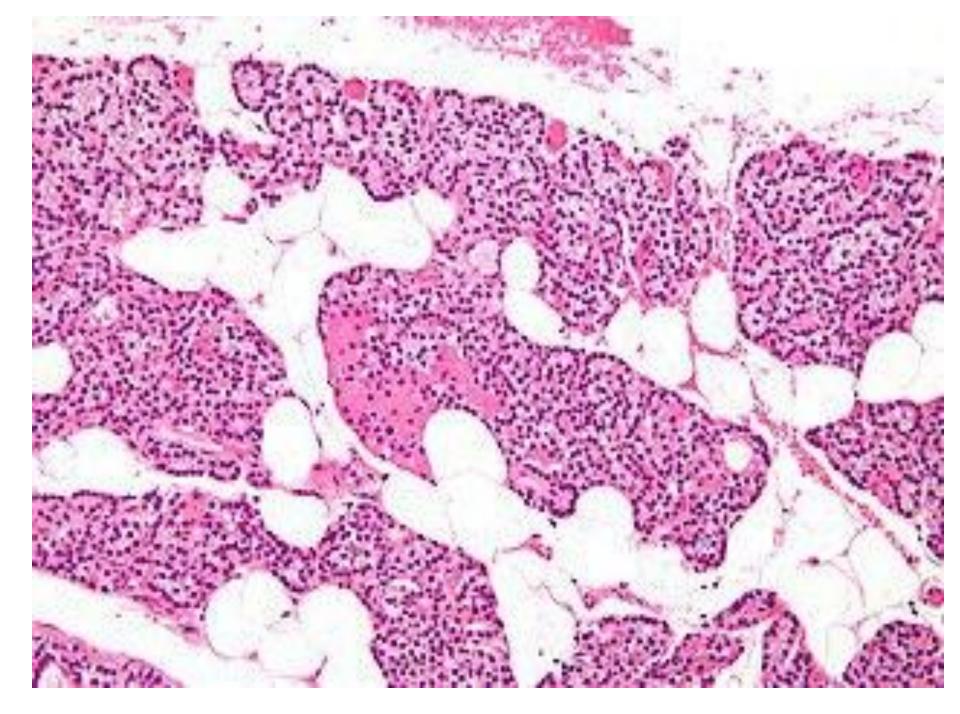
Hormones

Parathyroid hormone [PTH]

Anatomy of the Thyroid and Parathyroid Glands







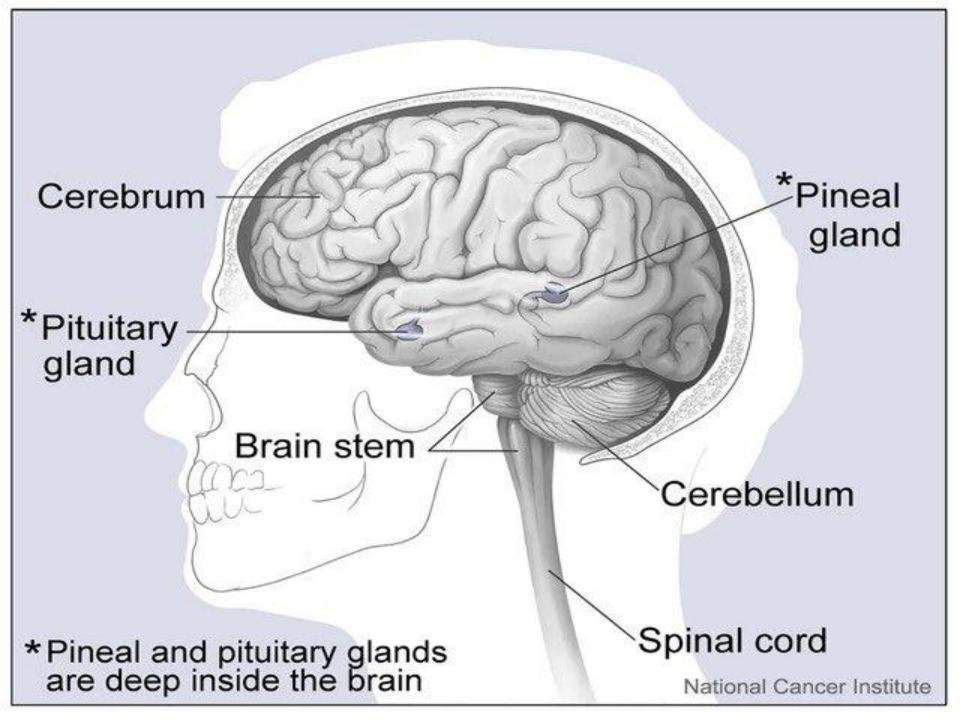
7- Pineal gland

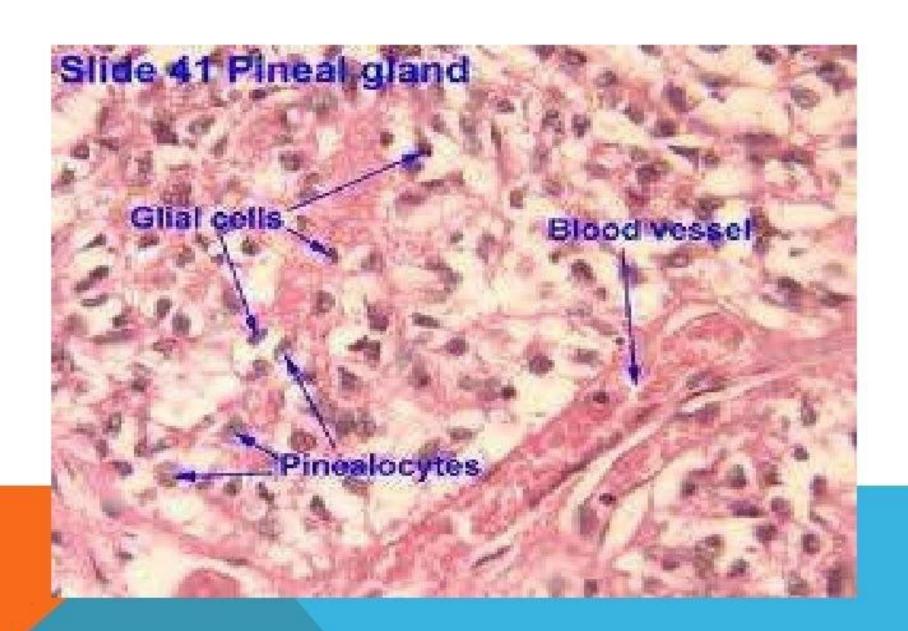
Location

In the <u>diencephalon</u> of the brain

Hormones

Hormone melatonin





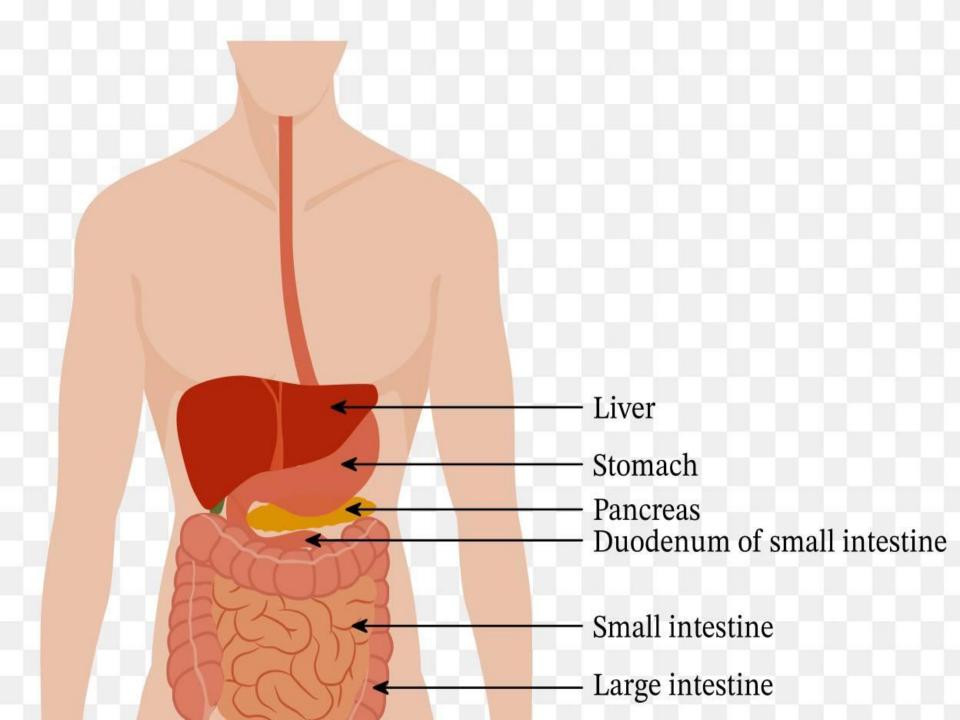
8- Pancreas

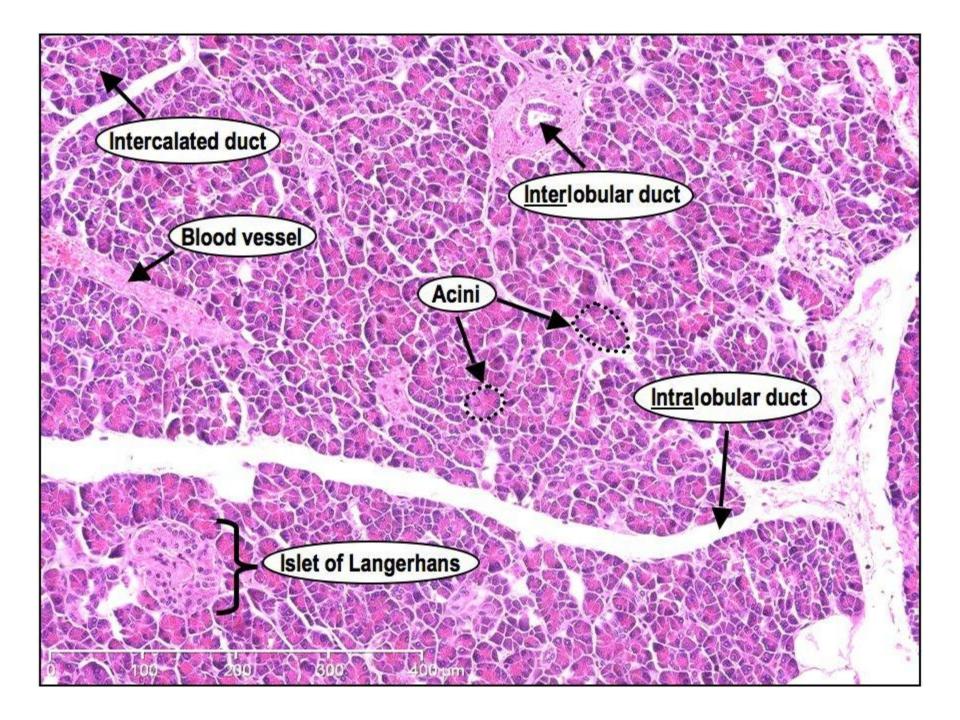
location

In the abdomen, below and behind the stomach, is both an <u>exocrine</u> and an endocrine gland.

Hormones

Insulin and Glucagon





9- Gonads

- Also called sex gland, or reproductive gland
- Include the male reproductive gonads or testes and female reproductive gonads or ovaries

Hormons

 Androgens, estrogens, and progestins, all of which are found in both males and females but at different levels. • The **ovaries** of the female, located in the pelvic cavity, release two main **hormones**

1- estrogens

2- Progesterone

• The **testes** of the male **produce** <u>testosterone</u> at puberty

Male Gonads Female Gonads Ovary Testes

THANK YOU FOR LISTENING