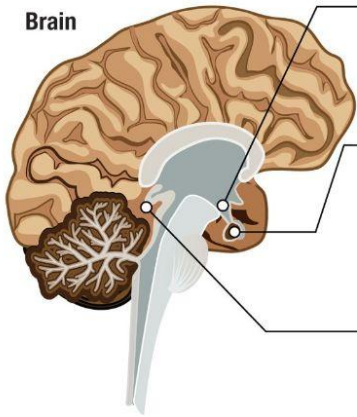


Human Body: Endocrine System

The endocrine system contains 9 major glands and organs that produce, store, and secrete hormones.

Brain



1 Hypothalamus

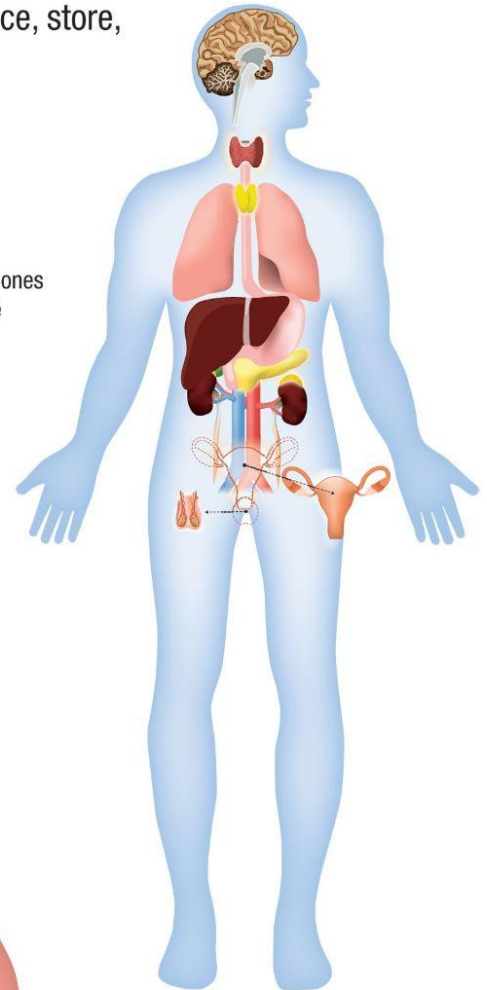
Maintains the body's homeostasis and regulates body temperature, heart rate, and blood pressure.

2 Pituitary Gland

Composed of 2 lobes: the anterior, which secretes hormones involved in the body's growth and development, and the posterior, which secretes hormones that increase the reabsorption of water into the kidneys.

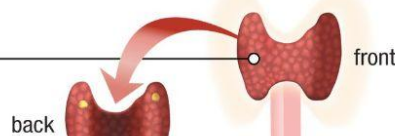
3 Pineal Gland

Responsible for the production of melatonin, which plays a major role in the body's sleep-wake cycle.



Thyroid

This butterfly-shaped gland produces 3 major hormones: calcitonin, triiodothyronine (T3), and thyroxine (T4). They help regulate the body's energy and metabolism.

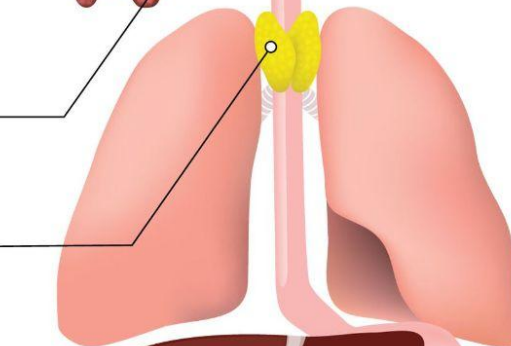


Parathyroid

The parathyroid secretes hormones necessary for calcium absorption.

Thymus

The thymus controls production of T-cells (white blood cells) and plays a vital role in the body's ability to fight diseases.



Ovaries/Testes

The male and female reproductive organs release hormones responsible for blood circulation, mental vigor, and sex drive.

Ovary

Secretes estrogen and progesterone, which play a key role in the health of the female reproductive system.

Testis

Secretes testosterone, which is vital for physical development, bone density, and libido in males.

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8 Pancreas

Aids in the digestion of proteins, fats, and carbohydrates. Responsible for the production of insulin and glucagon, which regulate the level of glucose in the blood.

9 Adrenal Gland

Produces hormones that allow the body to react to stress, such as adrenaline and cortisol.

