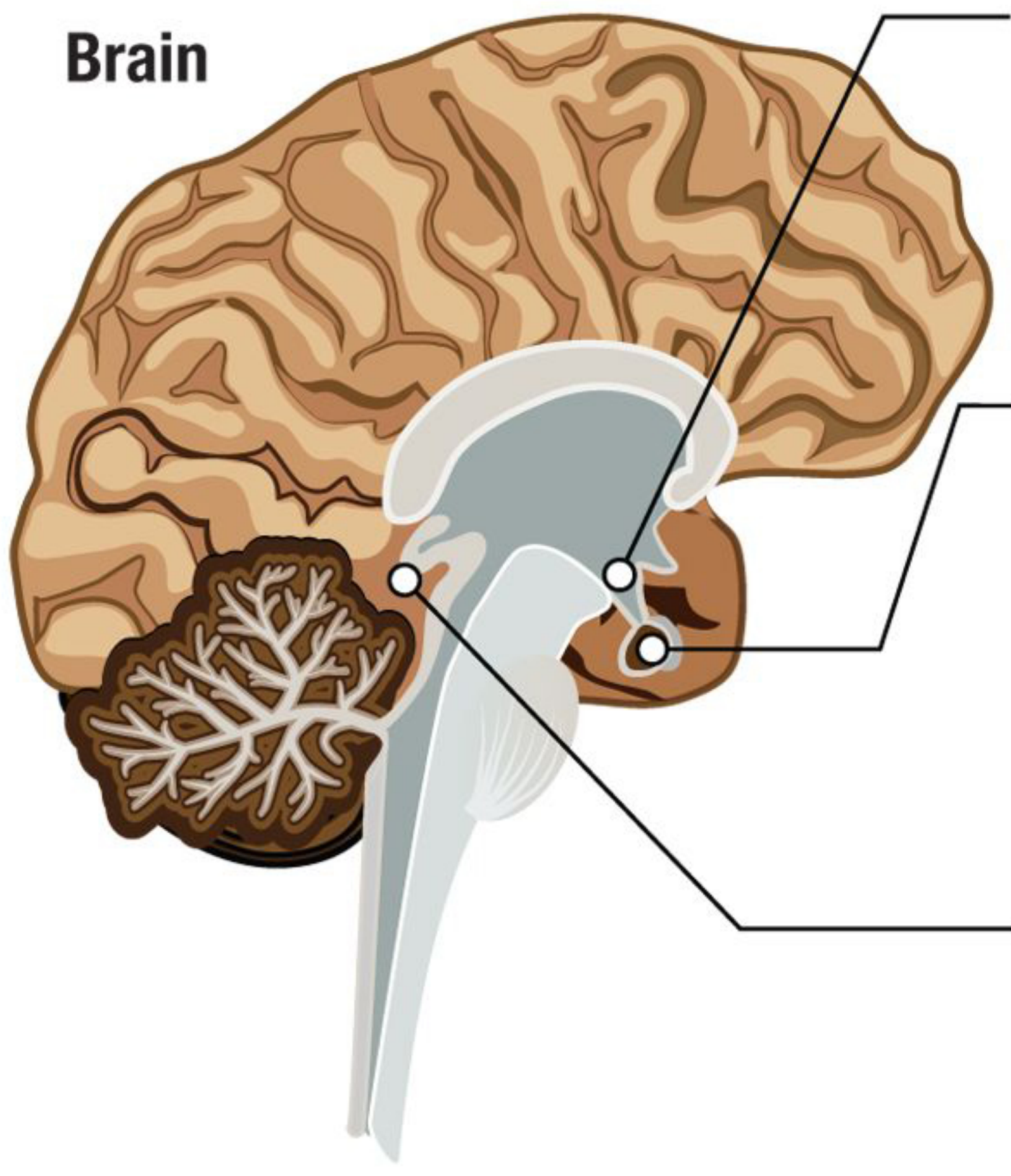
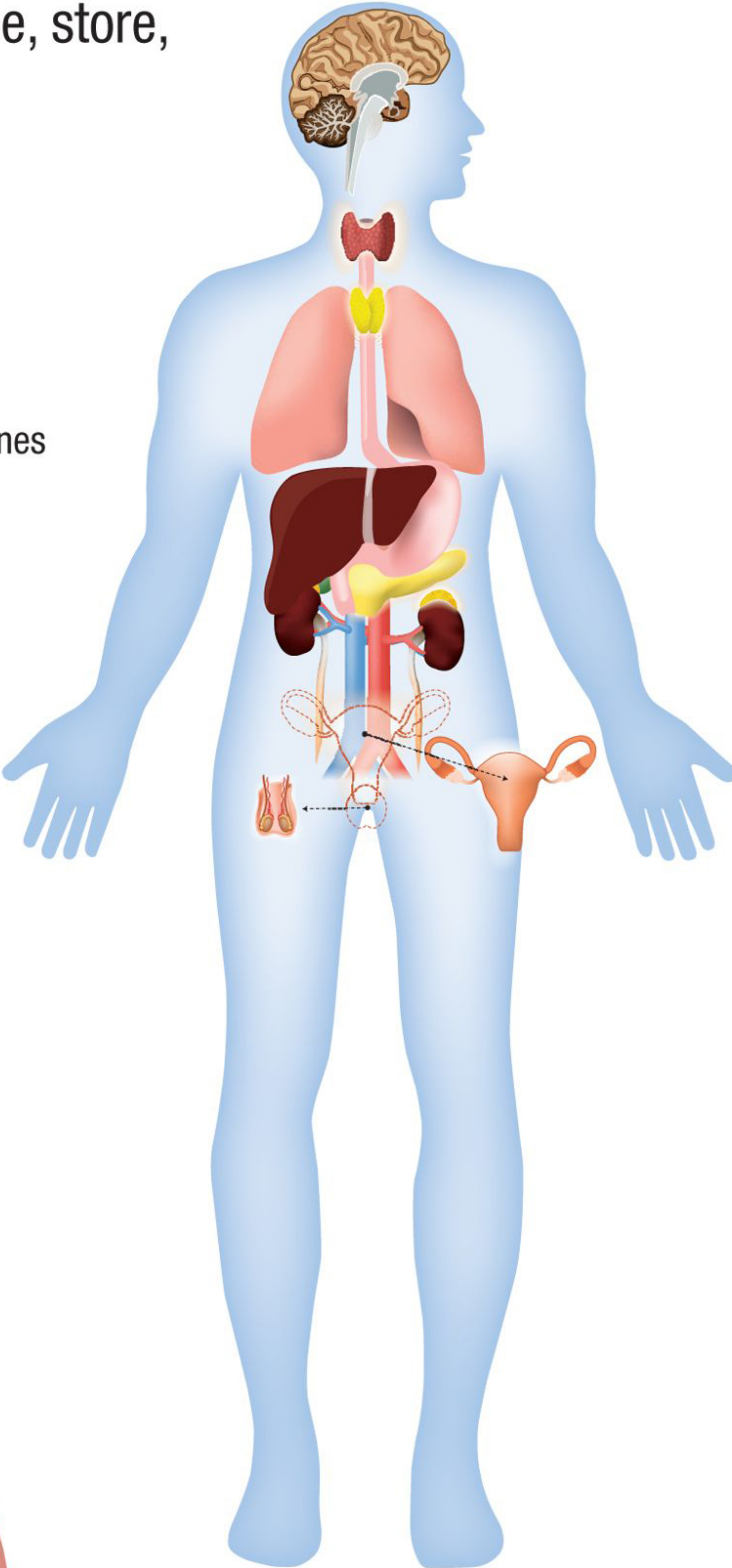


# Human Body: Endocrine System

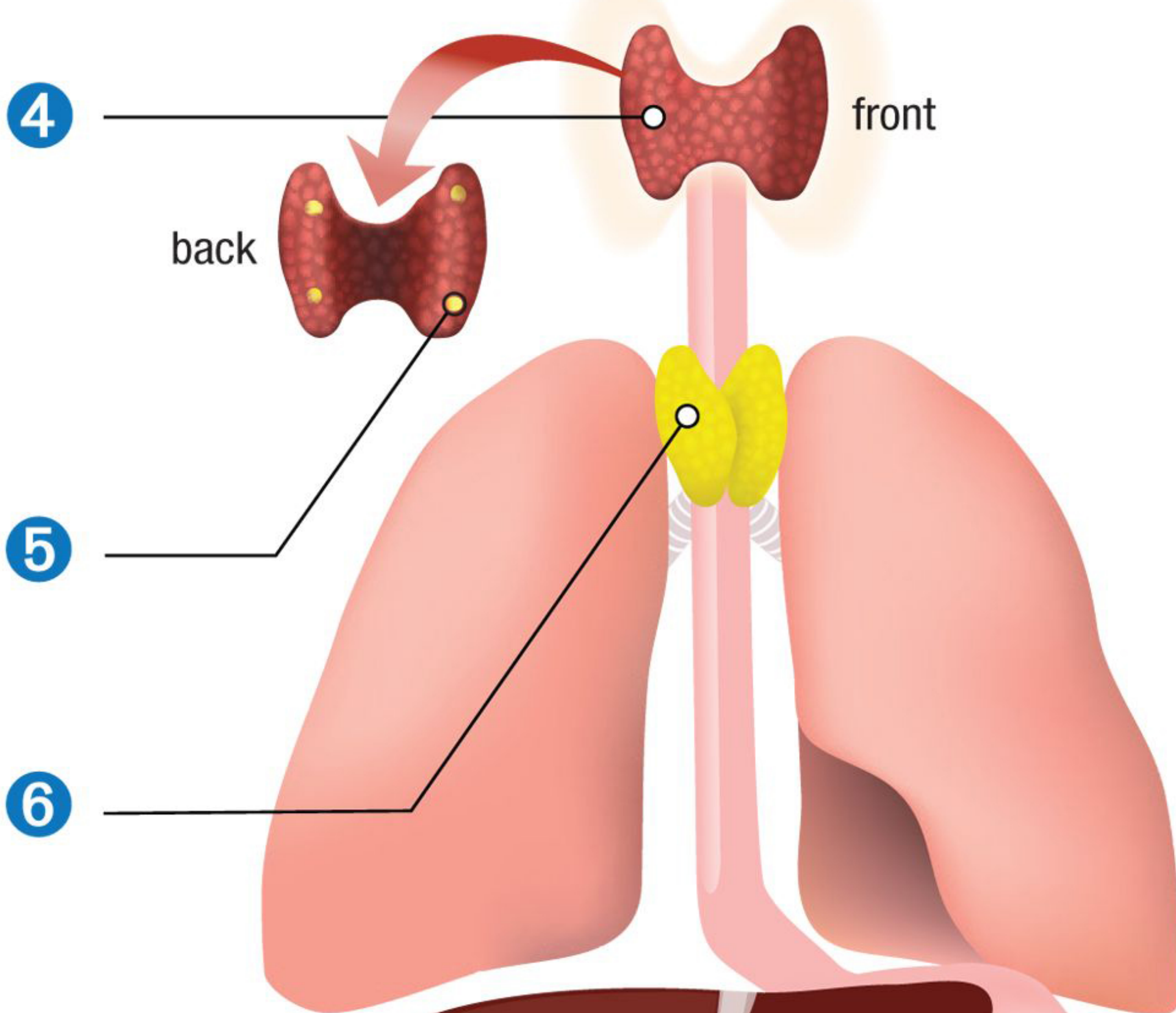
The endocrine system contains 9 major glands and organs that produce, store, and secrete hormones.



- 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.



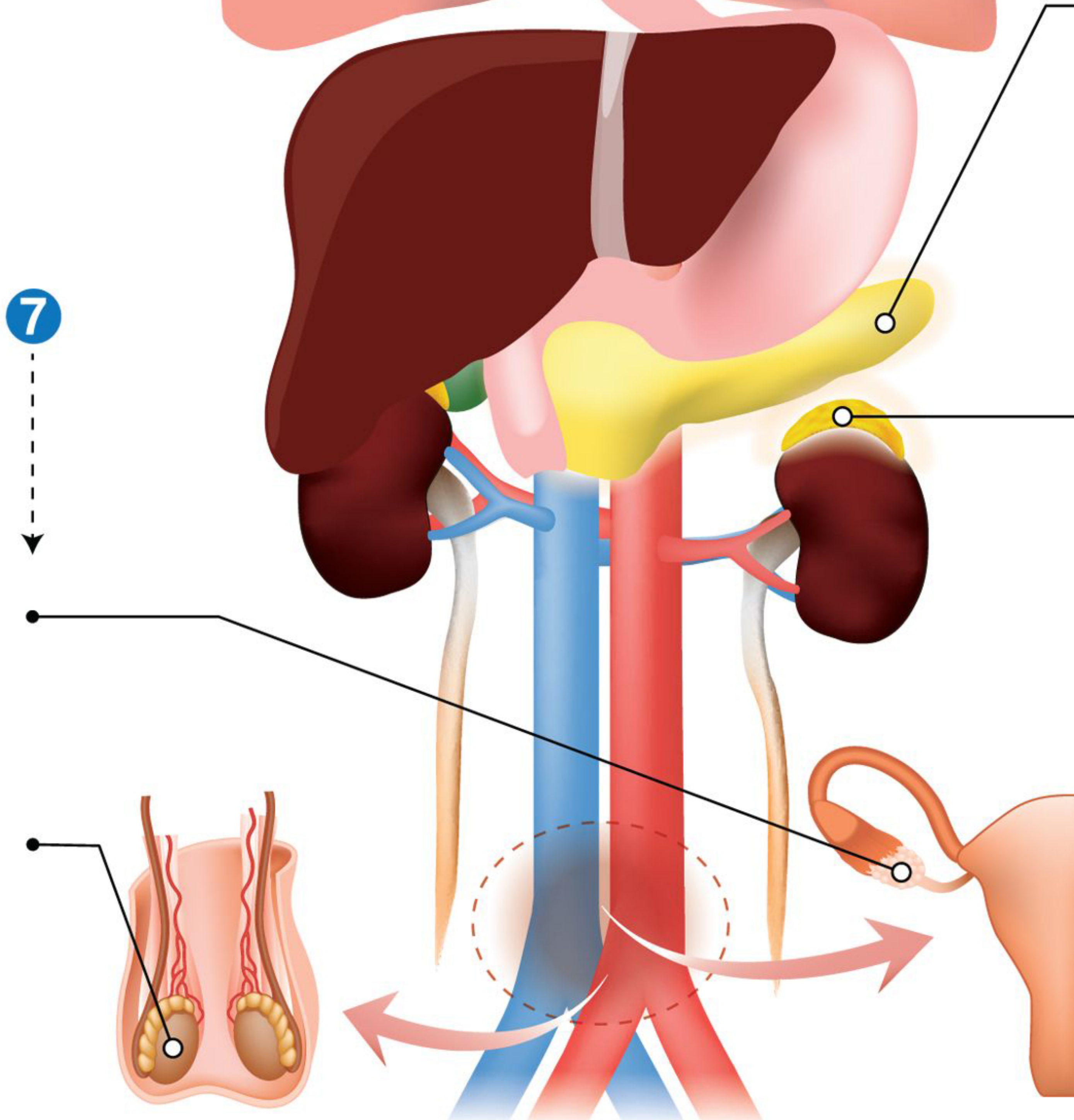
**Thyroid**  
This butterfly-shaped gland produces 3 major hormones: calcitonin, triiodothyronine (T3), and thyroxine (T4). They help regulate the body's energy and metabolism.



- 4**
- 5**
- 6**

**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.



- 7**

**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.

- 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.