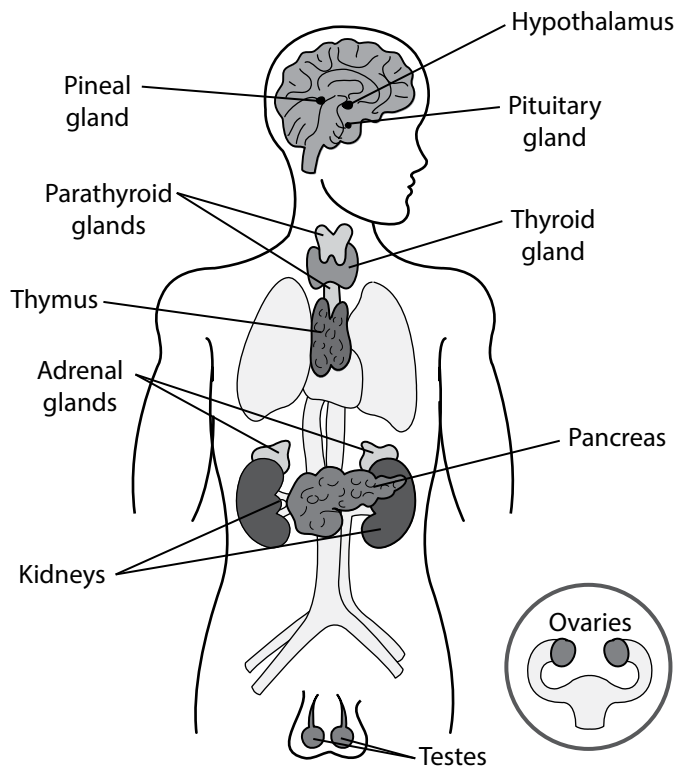


Anatomy & Physiology: THE ENDOCRINE SYSTEM



► The **endocrine system** makes and secretes hormones that control functions throughout the body.

GLANDS OF THE ENDOCRINE SYSTEM



HORMONES AND THEIR FUNCTIONS

Gland/Organ	Hormone(s) secreted	Hormone functions
Hypothalamus	Antidiuretic hormone (ADH) Oxytocin	Regulates water absorption in kidneys; regulates uterine contractions during labor and delivery
Pituitary gland	Growth hormone (hGH) Oxytocin Antidiuretic hormone (ADH) Trophic hormones	Stimulates cell growth, uterine contractions, water absorption in kidneys; stimulates other glands to produce hormones
Pineal gland	Melatonin	Controls sleep and wake cycles
Thyroid	Thyroxin Calcitonin	Regulates cellular energy metabolism; regulates calcium levels in blood
Parathyroid	Parathyroid hormone (PTH)	Increases and regulates calcium levels
Thymus	Thymosin	Produces white blood cells
Adrenal glands	Adrenaline Glucocorticoids Mineralocorticoids	Regulates glucose use and release from liver, artery contraction and heart rate increase, and sodium absorption in kidneys
Pancreas	Insulin Glucagon	Regulates glucose levels in the bloodstream
Gonads	Testosterone (males) Estrogen (females) Progesterone (females)	Controls gamete maturation and sexual development