A&P Key Terms 17 Endocrine System

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- 4. Chapter: A&P Key Terms 17 Endocrine System
- 1. A&P Key Terms 17 Endocrine System Questions

acromegaly	disorder in adults caused when abnormally high levels of GH trigger growth of bones in the face, hands, and feet
adenylyl cyclase	membrane-bound enzyme that converts ATP to cyclic AMP, creating cAMP, as a result of G-protein activation
adrenal cortex	outer region of the adrenal glands consisting of multiple layers of epithelial cells and capillary networks that produces mineralocorticoids and glucocorticoids
adrenal glands	endocrine glands located at the top of each kidney that are important for the regulation of the stress response, blood pressure and blood volume, water homeostasis, and electrolyte levels
adrenal medulla	inner layer of the adrenal glands that plays an important role in the stress response by producing epinephrine and norepinephrine
adrenocorticotropic hormone	(ACTH) anterior pituitary hormone that stimulates the adrenal cortex to secrete corticosteroid hormones (also called corticotropin)
alarm reaction	the short-term stress, or the fight-or-flight response, of stage one of the general adaptation syndrome mediated by the hormones epinephrine and norepinephrine
aldosterone	hormone produced and secreted by the adrenal cortex that stimulates sodium and fluid retention and increases blood volume and blood pressure
alpha cell	pancreatic islet cell type that produces the hormone glucagon
angiotensin-converting enzyme	the enzyme that converts angiotensin I to angiotensin II
antidiuretic hormone	(ADH) hypothalamic hormone that is stored by the posterior pituitary and that signals the kidneys to reabsorb water
atrial natriuretic peptide	(ANP) peptide hormone produced by the walls of the atria in response to high blood pressure, blood volume, or blood sodium that reduces the reabsorption of sodium and water in the kidneys and promotes vasodilation
autocrine	chemical signal that elicits a response in the same cell that secreted it
beta cell	pancreatic islet cell type that produces the hormone insulin

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calcitonin	peptide hormone produced and secreted by the parafollicular cells (C cells) of the thyroid gland that functions to decrease blood calcium levels
chromaffin	neuroendocrine cells of the adrenal medulla
colloid	viscous fluid in the central cavity of thyroid follicles, containing the glycoprotein thyroglobulin
cortisol	glucocorticoid important in gluconeogenesis, the catabolism of glycogen, and downregulation of the immune system
cyclic adenosine monophosphate	(cAMP) second messenger that, in response to adenylyl cyclase activation, triggers a phosphorylation cascade
delta cell	minor cell type in the pancreas that secretes the hormone somatostatin
diabetes mellitus	condition caused by destruction or dysfunction of the beta cells of the pancreas or cellular resistance to insulin that results in abnormally high blood glucose levels
diacylglycerol	(DAG) molecule that, like cAMP, activates protein kinases, thereby initiating a phosphorylation cascade
downregulation	decrease in the number of hormone receptors, typically in response to chronically excessive levels of a hormone
endocrine gland	tissue or organ that secretes hormones into the blood and lymph without ducts such that they may be transported to organs distant from the site of secretion
endocrine system	cells, tissues, and organs that secrete hormones as a primary or secondary function and play an integral role in normal bodily processes
epinephrine	primary and most potent catecholamine hormone secreted by the adrenal medulla in response to short- term stress; also called adrenaline
erythropoietin	(EPO) protein hormone secreted in response to low oxygen levels that triggers the bone marrow to produce red blood cells
estrogens	class of predominantly female sex hormones important for the development and growth of the female reproductive tract, secondary sex characteristics, the female reproductive cycle, and the maintenance of pregnancy

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exocrine system	cells, tissues, and organs that secrete substances directly to target tissues via glandular ducts
first messenger	hormone that binds to a cell membrane hormone receptor and triggers activation of a second messenger system
follicle-stimulating hormone	(FSH) anterior pituitary hormone that stimulates the production and maturation of sex cells
<u>G protein</u>	protein associated with a cell membrane hormone receptor that initiates the next step in a second messenger system upon activation by hormone- receptor binding
general adaptation syndrome	(GAS) the human body's three-stage response pattern to short- and long-term stress
gigantism	disorder in children caused when abnormally high levels of GH prompt excessive growth
glucagon	pancreatic hormone that stimulates the catabolism of glycogen to glucose, thereby increasing blood glucose levels
glucocorticoids	hormones produced by the zona fasciculata of the adrenal cortex that influence glucose metabolism
goiter	enlargement of the thyroid gland either as a result of iodine deficiency or hyperthyroidism
gonadotropins	hormones that regulate the function of the gonads
growth hormone	(GH) anterior pituitary hormone that promotes tissue building and influences nutrient metabolism (also called somatotropin)
hormone receptor	protein within a cell or on the cell membrane that binds a hormone, initiating the target cell response
hormone	secretion of an endocrine organ that travels via the bloodstream or lymphatics to induce a response in target cells or tissues in another part of the body
hyperglycemia	abnormally high blood glucose levels
hyperparathyroidism	disorder caused by overproduction of PTH that results in abnormally elevated blood calcium
hyperthyroidism	clinically abnormal, elevated level of thyroid hormone in the blood; characterized by an increased metabolic rate, excess body heat, sweating, diarrhea, weight loss, and increased heart rate

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hypoparathyroidism	disorder caused by underproduction of PTH that results in abnormally low blood calcium
hypophyseal portal system	network of blood vessels that enables hypothalamic hormones to travel into the anterior lobe of the pituitary without entering the systemic circulation
hypothalamus	region of the diencephalon inferior to the thalamus that functions in neural and endocrine signaling
hypothyroidism	clinically abnormal, low level of thyroid hormone in the blood; characterized by low metabolic rate, weight gain, cold extremities, constipation, and reduced mental activity
infundibulum	stalk containing vasculature and neural tissue that connects the pituitary gland to the hypothalamus (also called the pituitary stalk)
inhibin	hormone secreted by the male and female gonads that inhibits FSH production by the anterior pituitary
inositol triphosphate	(IP3) molecule that initiates the release of calcium ions from intracellular stores
insulin-like growth factors	(IGF) protein that enhances cellular proliferation, inhibits apoptosis, and stimulates the cellular uptake of amino acids for protein synthesis
insulin	pancreatic hormone that enhances the cellular uptake and utilization of glucose, thereby decreasing blood glucose levels
leptin	protein hormone secreted by adipose tissues in response to food consumption that promotes satiety
luteinizing hormone	(LH) anterior pituitary hormone that triggers ovulation and the production of ovarian hormones in females, and the production of testosterone in males
melatonin	amino acid-derived hormone that is secreted in response to low light and causes drowsiness
mineralocorticoids	hormones produced by the zona glomerulosa cells of the adrenal cortex that influence fluid and electrolyte balance
neonatal hypothyroidism	condition characterized by cognitive deficits, short stature, and other signs and symptoms in people born to women who were iodine-deficient during pregnancy

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norepinephrine	secondary catecholamine hormone secreted by the adrenal medulla in response to short-term stress; also called noradrenaline
osmoreceptor	hypothalamic sensory receptor that is stimulated by changes in solute concentration (osmotic pressure) in the blood
oxytocin	hypothalamic hormone stored in the posterior pituitary gland and important in stimulating uterine contractions in labor, milk ejection during breastfeeding, and feelings of attachment (also produced in males)
PP cell	minor cell type in the pancreas that secretes the hormone pancreatic polypeptide
pancreas	organ with both exocrine and endocrine functions located posterior to the stomach that is important for digestion and the regulation of blood glucose
pancreatic islets	specialized clusters of pancreatic cells that have endocrine functions; also called islets of Langerhans
paracrine	chemical signal that elicits a response in neighboring cells; also called paracrine factor
parathyroid glands	small, round glands embedded in the posterior thyroid gland that produce parathyroid hormone (PTH)
parathyroid hormone	(PTH) peptide hormone produced and secreted by the parathyroid glands in response to low blood calcium levels
phosphodiesterase	(PDE) cytosolic enzyme that deactivates and degrades cAMP
phosphorylation cascade	signaling event in which multiple protein kinases phosphorylate the next protein substrate by transferring a phosphate group from ATP to the protein
pineal gland	endocrine gland that secretes melatonin, which is important in regulating the sleep-wake cycle
pinealocyte	cell of the pineal gland that produces and secretes the hormone melatonin
pituitary dwarfism	disorder in children caused when abnormally low levels of GH result in growth retardation
pituitary gland	bean-sized organ suspended from the hypothalamus that produces, stores, and secretes hormones in response to hypothalamic stimulation (also called hypophysis)

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progesterone	predominantly female sex hormone important in regulating the female reproductive cycle and the maintenance of pregnancy
prolactin	(PRL) anterior pituitary hormone that promotes development of the mammary glands and the production of breast milk
protein kinase	enzyme that initiates a phosphorylation cascade upon activation
second messenger	molecule that initiates a signaling cascade in response to hormone binding on a cell membrane receptor and activation of a G protein
stage of exhaustion	stage three of the general adaptation syndrome; the body's long-term response to stress mediated by the hormones of the adrenal cortex
stage of resistance	stage two of the general adaptation syndrome; the body's continued response to stress after stage one diminishes
testosterone	steroid hormone secreted by the male testes and important in the maturation of sperm cells, growth and development of the male reproductive system, and the development of male secondary sex characteristics
thymosins	hormones produced and secreted by the thymus that play an important role in the development and differentiation of T cells
<u>thymus</u>	organ that is involved in the development and maturation of T-cells and is particularly active during infancy and childhood
thyroid gland	large endocrine gland responsible for the synthesis of thyroid hormones
thyroid-stimulating hormone	(TSH) anterior pituitary hormone that triggers secretion of thyroid hormones by the thyroid gland (also called thyrotropin)
thyroxine	(also, tetraiodothyronine, T4) amino acid-derived thyroid hormone that is more abundant but less potent than T3 and often converted to T3 by target cells
triiodothyronine	(also, T3) amino acid-derived thyroid hormone that is less abundant but more potent than T4
upregulation	increase in the number of hormone receptors, typically in response to chronically reduced levels of a hormone

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zona fasciculata	intermediate region of the adrenal cortex that produce hormones called glucocorticoids
zona glomerulosa	most superficial region of the adrenal cortex, which produces the hormones collectively referred to as mineralocorticoids
zona reticularis	deepest region of the adrenal cortex, which produces the steroid sex hormones called androgens