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Endocrine System Summary

| Source | Hormone | Principal Effects |
|-----------------|---|--|
| Pancreas | Insulin | Stimulates glycogen formation and storage; stimulates glucose oxidation; stimulates cellular uptake of amino acids and fatty acids; synthesis of protein and fat |
| | Glucagon | Stimulates conversion of glycogen into glucose leading to increased blood glucose |
| Adrenal medulla | Adrenalin (Epinephrine) | Stimulates elevation of blood-glucose concentration; stimulates "fight-or-flight" reactions |
| | Noradrenalin (Noradrenaline) | Stimulates reactions similar to those produced by adrenalin, but causes more vasoconstriction and is less effective in conversion of glycogen into glucose |
| Adrenal cortex | Glucocorticoids (corticosterone, cortisol, cortisone, etc.) | Stimulate formation of carbohydrate from protein, thus elevating glycogen stores and helping maintain normal blood-sugar levels |
| | Mineralocorticoids (aldosterone, deoxycorticosterone, etc.) | Stimulate kidney tubules to reabsorb more sodium and water and less potassium |
| | Cortical sex hormones | Stimulate development of secondary sexual characteristics, particularly those of the male |
| Thyroid | Calcitonin | Prevents excessive rise in blood calcium |

INNATE IMMUNITY VERSUS ADAPTIVE IMMUNITY

Innate immunity refers to a naturally occurring immunity by the genetic constituents and the physiology of a person

Known as natural immunity

Generates a non-specific immune response

Always present in the body

Generates a rapid response

Plasma proteins, phagocytes, physical and chemical barriers are the components

Temperature, pH, skin, and mucous membranes are the barriers

Does not develop memory cells

Possesses a less diversity

Less potent

Does not produce allergic reactions

Ex: Redness and swelling caused by the white blood cells around a wound

Adaptive immunity refers to an acquired immunity, mediated by T cells and B cells and characterized by an immunological memory

Known as acquired immunity

Generates a specific immune response

Generated in response to exposure to an external factor

Delayed 5-6 days

Humoral and cell-mediated immunity are the components

Lymph nodes, spleen, and lymphoid tissues are the barriers

Develops memory cells

Possesses a higher diversity

Exhibits a higher potency

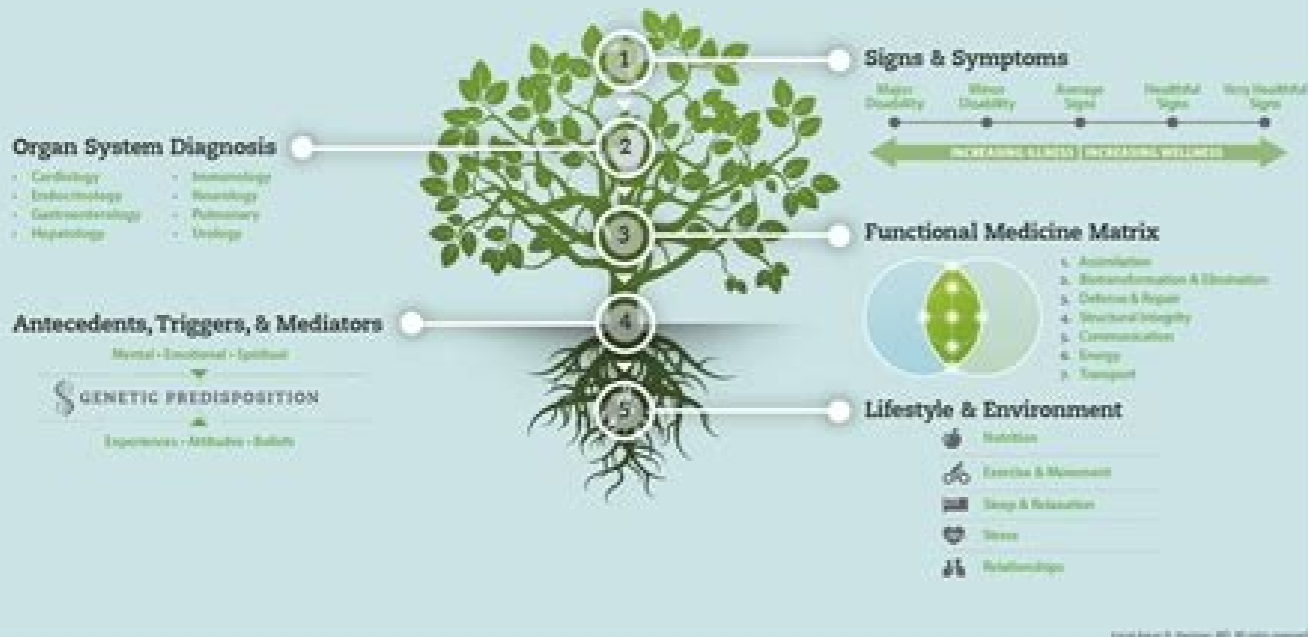
Develops allergic reactions; immediate and delayed hypersensitivity

Ex: Vaccination against a virus

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| Organ System | Diagnosis |
|--------------------|-------------------------|
| Cardiovascular | Cardiology |
| Endocrinology | Endocrinology |
| Gastroenterology | Gastroenterology |
| Hematology | Hematology |
| Immunology | Immunology |
| Infectious Disease | Infectious Disease |
| Neurology | Neurology |
| Nephrology | Nephrology |
| Oncology | Oncology |
| Orthopedics | Orthopedics |
| Pediatrics | Pediatrics |
| Psychiatry | Psychiatry |
| Pulmonology | Pulmonology |
| Rheumatology | Rheumatology |
| Urology | Urology |
| Women's Health | Obstetrics & Gynecology |

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These hormones hormones The body of a boy when it is time to make changes associated with puberty, such as penis and height growth, the voice that deepens, and growth in facial and pubic hair. They make the eggs and secrete female hormones (pronounced: Ess-Truh-Jen) and (pronounced: Pro-Jess-Tuh-Rone). The thyroid hormones are important because they help the bones of children and adolescents to grow and develop, and also play a role in the development of the brain and the nervous system. The endocrine system (pronounced: en-duh-krin) affects almost every cell, organ and function of our body. This allows hormones to travel to cells in other parts of the body. Most people don't realize it, but both the boys and girls have the gonads. The endocrine system regulates the quantity of each hormone released. Go do regular medical checks. Estrogen and progesterone are also involved in the regulation of a girl's menstrual cycle. The hypothalamus collects information detected by the brain (such as the surrounding temperature, exposure to light and sensations) and sends them to the hypophysis. In boys the male gonads, or testicles (pronounced: Tes-Teez), I am in the scrotum. They secrete hormones called androgens (pronounced: An-Drub-Junz), the most important of which is (pronounced: Tess-Toss-Tuh-Rone). Working with hormones from the pituitary gland, testosterone also says to a boy's body when it's time to sperm in the testicles. Insulin helps keep the body powered by energy reserves. Tell your doctor if: drinking lots of water but they are still thirsty, they must do piggies often have frequent belly pain or nausea are very tired or weak they are gaining or losing a lot of weight they have tremors or sweat a lot are constipated they do not grow or develop as an expected hypothalamus : The hypothalamus (pronounced: It is located in the lower central part of the brain. The hypophysis also secretes hormones that report the reproductive organs to make sex hormones. The body uses this energy stored to do exercise exercise activity, and it also helps organs work as they should. Pancreas: The pancreas (pronounced: PAN-kree-us) makes insulin (pronounced: IN-suh-lin) and glucagon (pronounced: GLOO-kuh-gawn), which are hormones that control the level of glucose, or sugar, in the blood. Parathyroids: Attached to the thyroid are four tiny glands that work together called the parathyroids (pronounced: par-uh-THY-roydz). Despite its small size, the pituitary is often called the "master gland." The hormones it makes control many other endocrine glands. The endocrine system is made up of glands that make hormones. It secretes melatonin (pronounced: meh-luh-TOE-nin), a hormone that may help regulate when you sleep at night and when you wake in the morning. Adrenal Glands: These two triangular adrenal (pronounced: uh-DREE-nul) glands sit on top of each kidney. A girl's gonads, the ovaries (pronounced: OH-vuh-reez), are in her pelvis. How Can I Help Keep My Endocrine System Healthy? Pituitary: The pituitary (pronounced: puh-TOO-uh-ter-ee) gland is at the base of the brain, and is no bigger than a pea. While many parts of the body make hormones, the major glands that make up the endocrine system are the: hypothalamus pituitary thyroid parathyroids adrenals pineal body the ovaries the testes The pancreas is part of the endocrine system and the digestive system. They carry information and instructions from one set of cells to another. When Should I Call the Doctor? These hormones also play a role in pregnancy. These hormones control the rate at which cells burn fuels from food to make energy. This information influences the hormones that the pituitary makes and releases. What Are the Parts of the Endocrine System? What Does the Endocrine System Do? Too much or too little of any hormone can harm the body. Pineal: The pineal (pronounced: pah-NEE-ul) body, also called the pineal gland, is in the middle of the brain. The adrenal glands have two parts, of which it makes a set of hormones and has a different function: the outer part is the adrenal cortex. Nerve cells in the hypothalamus make chemical substances that control the release of hormones secreted by the pituitary gland. The inner part is the Adrenal Medulla (pronounced: Muh-duh-luh). The pituitary gland has many hormones, such as: growth hormone, which stimulates the growth of bone and other body tissues and plays a role in the management of the body of nutrients and minerals prolactin (pronounced: pro-lak-tin) , which activates milk production in women who are breastfeeding Thyrotropin (pronounced: Thy-Ruh-Tro-PIN), which stimulates the thyroid gland to make the short-ended thyroid hormone (pronounced: Kor-Tih-Ko-Tro-PIN) , which stimulates the adrenal gland to ensure antidiuretic hormones (pronounced: AN-TY-DY-UH-REH-REH-TIK), which helps control body water balancing through its effect on the OxyTocina kidneys (pronounced: AHK-See-toe-sin), which triggers the contractions of the uterus that happens during work the pituitary also secreting endorphins (pronounced: en-dor-pins), chemicals that act on the nervous system and reduce the feelings of pain. Eat a nutritious diet many things influence hormone levels, such as stress, infection and changes in fluid scale and blood minerals. Reproductive glands: The gonads are the main source of sex hormones. To help keep your endocrine system healthy: get a lot of exercise. exercise.

Test your understanding of Endocrine system concepts with Study.com's quick multiple choice quizzes. Missed a question here and there? All quizzes are ... s-y-tem (sis'täm) n. 1. A group of interacting, interrelated, or interdependent elements forming a complex whole, especially: a. An organism as a whole, especially with regard to its vital processes or functions: The animal's entire system seems to be affected by the disease. b. A group of physiologically or anatomically related organs or parts ... Oct 11, 2021 · What is the Epidermis? When we think of protecting our bodies from the elements, we may think of putting on a jacket, or shoes and socks. Perhaps you use sunscreen, and wear a hat and sunglasses. May 13, 2017 · DEFINITION OF ENDOCRINE SYSTEM The endocrine system is the collection of glands that produce hormones that regulate metabolism, growth and development, tissue function, sexual function, reproduction, sleep, and mood, among other things. The word endocrine derives from the Greek words "endo," meaning within, and "crinis," meaning to secrete. Jan 15, 2021 · Overview. Endocrine system glands are spaced throughout the entire body. They release a wide number of hormones which control the metabolism and function of other cells. Exocrine glands, by comparison, secrete substances inside and outside of the body using ducts. These two methods of transport mark the difference between exocrine and endocrine ... Oct 09, 2021 · The endocrine system uses hormones to manage many essential bodily functions, such as mood, energy levels, growth, and more. Explore the endocrine system and discover how its feedback loops and ... Feb 28, 2022 · Sympathetic nervous system (diagram) The autonomic system is made up of two divisions, the sympathetic and parasympathetic systems. They usually work antagonistically in the organs, but in a well integrated manner. It is the balance of the actions of both divisions that maintains a stable internal environment in the body. Jan 15, 2021 · Definition. The endocrine system is a collection of ductless glands that produce hormones and secrete them into the circulatory system. Endocrine glands work without ducts for carrying secretions towards target organs. Instead, hormones can act as chemical messengers for a large number of cells and tissues simultaneously. Jan 24, 2022 · Endocrine disruptors are natural or man-made chemicals that may mimic or interfere with the body's hormones, known as the endocrine system. These chemicals are linked with many health problems in both wildlife and people. Jul 30, 2017 · Definition. Endocrine Glands: Endocrine glands are a type of glands that secrete substances (hormones) into the blood stream. Exocrine Glands: Exocrine glands are a type of glands which release its secretion external to or at the surface of an organ with the help of a canal or duct. Ducts. Endocrine Glands: Endocrine glands are a type of ... Apr 22, 2021 · Neuroscience: Brain, Limbic System ; Limbic System: Definition, Parts, Functions, and Location . By Olivia Guy-Evans, published April 22, 2021 . Fact checked by Saul McLeod, PhD . The limbic system is a collection of structures involved in processing emotion and memory, including the hippocampus, the amygdala, and the hypothalamus. The limbic system is located ... Exocrine glands are glands that secrete substances on to an epithelial surface by way of a duct. Examples of exocrine glands include sweat, salivary, mammary, ceruminous, lacrimal, sebaceous, prostate and mucous. Exocrine glands are one of two types of glands in the human body, the other being endocrine glands, which secrete their products directly into the bloodstream. Oct 11, 2021 · GTPAL is the acronym for Gravidity, Term births, Preterm births, Abortion, and Living Children. Discover the definition of these medical terms represented by ... Endocrine glands are ductless glands of the endocrine system that secrete their products, hormones, directly into the blood. The major glands of the endocrine system include the pineal gland, pituitary gland, pancreas, ovaries, testes, thyroid gland, parathyroid gland, hypothalamus and adrenal glands. The hypothalamus and pituitary glands are neuroendocrine organs. The endocrine system secretes hormones in response to environmental stimuli and to orchestrate developmental and reproductive changes. The adjustments brought on by the endocrine system are biochemical, changing the cell's internal and external chemistry to bring about a long term change in the body. These systems work together to maintain the ... The endocrine system is a network of glands that produce and release hormones that help control many important body functions, including the ... Jul 30, 2017 · Definition. Endocrine Glands: Endocrine glands are a type of glands that secrete substances (hormones) into the blood stream. Exocrine Glands: Exocrine glands are a type of glands which release its secretion external to or at the surface of an organ with the help of a canal or duct. Ducts. Endocrine Glands: Endocrine glands are a type of ... Dec 12, 2019 · The endocrine system is a complex network of glands and organs that produce different types of hormones. Let's talk about them here. RELATED: Peptide Synthesis Without Amino Acids Shines Light On Origin Of Life List of Hormones Secreted by the Endocrine System: The 3 Major Types Sep 14, 2017 · Definition. Endocrine System: Endocrine system refers to the collection of glands that produce hormones to control the functions of the body. Nervous System: Nervous system refers to the network of nerve cells that coordinate the functions of the body by transmitting nerve impulses. Composition. Endocrine System: Endocrine system is composed of ... The pineal gland, thymus gland, pituitary gland, thyroid gland, and the two adrenal glands are all endocrine glands. Exocrine glands. Exocrine glands secrete their products through a duct onto an outer or inner surface of the body, such as the skin or the gastrointestinal tract. Secretion is directly onto the ... The endocrine system consists of a series of organs and glands throughout the body that produce, store, and secrete special chemical messengers. These chemical messengers are hormones. Hormones travel through the blood to specific target cells throughout the body. This article will contain a list of word roots, and a few additional suffixes and ...

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