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Physioex exercise 4 endocrine system problems worksheets

Correct answer: is a hormone important in the body's response to stress.1ACTHYou correctly answered: is a tropic hormone that stimulates cortisol release.2CRHYou correctly answered: has a tropic effect on the anterior pituitary gland.3Cushing's syndrome refers to You correctly answered: a hypercortisolism, which could be iatrogenic.4A condition of hypocortisolism You correctly answered: refers to low levels of cortisol in the blood.5Normally high levels of cortisol would inhibit release of You correctly answered: both ACTH and CRH.1Which hormone(s) stimulate(s) the pituitary gland to release ACTH? Steroids: produced by the gonads and part of the adrenal cortex. As a result of the structural differences, their mechanisms of action (e.g., whether they can enter their target cells and how they modulate the activity of those cells) also differ. The hormones then are carried via the blood to their target cells. Hypogonadism. Thus, blood sugar levels primarily regulate insulin and glucagon release by the pancreas. These hormones are found primarily in the hypothalamus, pituitary gland, and pancreas. This ultimately results in an increase in the production of steroid hormones called glucocorticoids, which include cortisol (a stress hormone). The hormone-receptor complexes then bind to certain regions of the cell's genetic material (i.e., the DNA), thereby regulating the activity of specific hormone-responsive genes. The levels of some of the hormones are regulated in a fairly straightforward manner by the end products that they influence. The thyroid gland and the adrenal medulla produce this type of hormone. Polypeptide and protein hormones: chains of amino acids of various lengths (from three to several hundred amino acids). Polycystic ovary syndrome (PCOS). Testosterone imbalance: Deficiency or excess. Regulation of Hormone Activity[edit | edit source] To maintain the body's homeostasis and respond appropriately to changes in the environment, hormone production and secretion must be tightly controlled. The target cells for each hormone are characterized by the presence of certain docking molecules (i.e., receptors) for the hormone that are located either on the cell surface or inside the cell. The interaction modifies the activity of the affected genes. They are water-soluble and connects with receptors at the membrane, as they can't diffuse through the membrane. You correctly answered: CRH.219/30/2020 PhysioEx Exercise 4 Activity 4media.pearsoncmg/bc/bc_0media_ap/physioex/10/ex4/act4/ 2/Experiment Data Patient Cortisol (mcg/dl)High or low ACTH (pg/ml) High or low 1 3 Low 19 Low 2 30 High 14 Low 3 46 High 82 High 4 2 Low 98 High 5 52 High 16 LowTable 4 and ACTH DisordersCortisol Level ACTH Level Cushing's syndrome (primary hypercortisolism) High Low Iatrogenic Cushing's syndrome High Low Cushing's disease (secondary hypercortisolism) High High Addison's disease (primary adrenal insufficiency) Low High Secondary adrenal insufficiency (hypopituitarism) Low LowPost-lab Quiz ResultsYou scored 100% by answering 6 out of 6 questions correctly. Cushing's Syndrome When a person perceives a situation to be challenging, threatening or uncontrollable, the brain initiates a cascade of events involving the hypothalamic-pituitary-adrenal (HPA) axis, which is the primary driver of the endocrine stress response. You correctly answered: CRH.27/2/2020 PhysioEx Exercise 4 Activity 4media.pearsoncmg/bc/bc_0media_ap/physioex/10/ex4/act4/ 2/Patient Cortisol (mcg/dl)High or low ACTH (pg/ml) High or low 1 3 Low 18 Low 2 32 High 11 Low 3 43 High 85 High 4 2 Low 103 High 5 45 High 19 LowTable 4 and ACTH DisordersCortisol Level ACTH Level Cushing's syndrome (primary hypercortisolism) High Low Iatrogenic Cushing's syndrome High Low Cushing's disease (secondary hypercortisolism) High High Addison's disease (primary adrenal insufficiency) Low High Secondary adrenal insufficiency (hypopituitarism) Low LowPost-lab Quiz ResultsYou scored 100% by answering 6 out of 6 questions correctly. The endocrine glands respond to specific stimuli and the the products of these glands are released into the bloodstream. The interaction between the hormone and its receptor triggers a cascade of biochemical reactions in the target cell that eventually modify the cell's function or activity[1]. This system overlaps with the nervous system and exocrine system, and its responsibilities include metabolism, growth and sexual development. Those hormone classes differ in their general molecular structures (e.g., size and chemical properties). Most animals that have advanced physiology, such as vertebrates and crustaceans, have an endocrine system.[2] Mechanism of Action[edit | edit source] Regulation of gene expression by steroid hormone receptor: Lipid-soluble and can diffuse easily into the cell membrane of the target cell. Several classes of hormones exist. The Endocrine System[edit | edit source] The Endocrine System is a collection of glands and organs that produce and regulate hormones in the bloodstream to control many functions of the body. Some hormones have only a few specific target cells, others affect numerous cell types throughout the body. Under normal conditions, if the amount of secreted CRH increases, then You correctly answered: the amount of secreted ACTH will increase.1Under normal conditions, if the amount of secreted ACTH increases, then You correctly answered: the amount of secreted CRH will likely decrease.2Under normal conditions, if the amount of secreted cortisol increases, then You correctly answered: the amount of secreted ACTH will likely decrease.3If a hypersecreting pituitary tumor develops, then an expected outcome is You correctly answered: a diagnosis of Cushing's disease.4If a hypersecreting adrenal cortex tumor develops, then an expected outcome is You correctly answered: abnormally low levels of CRH due to negative feedback.5 9/30/2020 PhysioEx Exercise 4 Activity 4media.pearsoncmg/bc/bc_0media_ap/physioex/10/ex4/act4/ 1/PhysioEx Lab ReportExercise 4: Endocrine System Physiology Activity 4: Measuring Cortisol and Adrenocorticotropic Hormone Name: David Talley Date: 30 September 2020 Session ID: session-0a6ca422-2ab0-8a16-ee49-e952755cd34bPre-lab Quiz ResultsYou scored 80% by answering 4 out of 5 questions correctly.Experiment ResultsPredict Questions No Predict Questions Stop & Think QuestionsCortisol Your answer: release is stimulated by the hypothalamic hormone CRH. As peptide hormones bind to receptors at the surface, their effect is faster than steroid hormones.[1][3]. Like steroids, amino acid derivatives can enter the cell, where they interact with receptor proteins that are already associated with specific DNA regions. Cell signaling pathways: steroid and protein hormonesAmino acid derivatives: modified versions of some of the building blocks of proteins. Further Reading[edit | edit source] See Endocrine System References[edit | edit source] The molecules interact with receptors in the cytoplasm or in the cell nucleus. Hormones are molecules that are produced by endocrine glands, eg the hypothalamus, pituitary gland, adrenal glands, gonads, (i.e., testes and ovaries), thyroid gland, parathyroid glands, and pancreas. Under normal conditions, if the amount of secreted CRH increases, then You correctly answered: the amount of secreted ACTH will increase.1Under normal conditions, if the amount of secreted ACTH increases, then You correctly answered: the amount of secreted CRH will likely decrease.2Under normal conditions, if the amount of secreted cortisol increases, then You correctly answered: the amount of secreted ACTH will likely decrease.3If a hypersecreting pituitary tumor develops, then an expected outcome is You correctly answered: a diagnosis of Cushing's disease.4If a hypersecreting adrenal cortex tumor develops, then an expected outcome is You correctly answered: abnormally low levels of CRH due to negative feedback.5i Stuck on a homework question? In addition, numerous indirect interactions exist between the various hormone systems governing body functioning. Chronic stress can result in impaired communication between the immune system and the HPA axis which are linked with chronic fatigue, metabolic disorders (e.g., diabetes, obesity), depression and immune disorders. No Frames Version 4: Endocrine System Physiology Web Site Navigation Navigation for 4: Endocrine System Physiology 7/2/2020 PhysioEx Exercise 4 Activity 4media.pearsoncmg/bc/bc_0media_ap/physioex/10/ex4/act4/ 1/PhysioEx Lab ReportExercise 4: Endocrine System Physiology Activity 4: Measuring Cortisol and Adrenocorticotropic Hormone Name: Melissa Roman Date: 2 July 2020 Session ID: session-d870d95c-8bd5-8aaa-b9e5-6afa8d94a3fdPre-lab Quiz ResultsYou scored 100% by answering 5 out of 5 questions correctly.Experiment ResultsPredict Questions No Predict Questions Stop & Think QuestionsExperiment DataCortisol You correctly answered: is a hormone important in the body's response to stress.1ACTHYou correctly answered: is a tropic hormone that stimulates cortisol release.2CRHYou correctly answered: has a tropic effect on the anterior pituitary gland.3Cushing's syndrome refers to You correctly answered: a hypercortisolism, which could be iatrogenic.4A condition of hypocortisolism You correctly answered: refers to low levels of cortisol in the blood.5Normally high levels of cortisol would inhibit release of You correctly answered: both ACTH and CRH.1Which hormone(s) stimulate(s) the pituitary gland to release ACTH? Our verified tutors can answer all questions, from basic math to advanced rocket science! You're Reading a Free Preview Page 3 is not shown in this preview. Other hormones (e.g.Hypothalamic-Pituitary-Adrenal (HPA) Axis) are parts of hormone cascades whose activities are controlled through elaborate feedback mechanisms. Types of Hormonal Problems[edit | edit source] Importance of Thyroid Gland Any small alteration to your hormones can lead to problems, including: Hyperthyroidism Hypothyroidism Estrogen imbalance: women sometimes suffer from an imbalance or increase in estrogen levels.

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