
PATHOPHYSIOLOGY I - Endocrine system – Case studies

Discussion:

- 1) Define the endocrine system. Discuss the concepts of hormones and their target binding receptors of the endocrine system? How does the endocrine system differ from the nervous system? (SLIDES 3-6)

The endocrine system is the system that releases and secretes hormones. It differs from the nervous system because the endocrine system send out signals by the hormones that they target in the bloodstream.

- 2) Discuss the hypothalamic-pituitary-axis (HPA) anatomy and sequence of hormone stimulation. What is secreted from the anterior and posterior pituitary? (SLIDES 7-10)

The HPA is a complex set of direct influenced and feedback interactions between the hypothalamus the pituitary and adrenal gland. The anterior pituitary stimulates the thyroid and produces thyroid hormones, and the posterior pituitary gland stores hormones from the hypothalamus. Stimulates the ovaries and testes, secretes ACTH and stimulates CRH. Secretes growth hormone and prolactin. The posterior pituitary gland Stimulates the kidney with an antidiuretic hormone and Oxytocin secretion which acts on uterus and kidneys.

- 3) Select an endocrine system NOT related to the HPA and discuss its regulation.

Adrenal gland cortex produces 3 steroid hormones. Gets stimulated by ACTH from pituitary gland

- 4) Explain some common hypothalamus functions other than its endocrine function. (SLIDE 8)

Other functions of the endocrine system are temperature regulation, regulation of the autonomic nervous system, and the control of appetite.

- 5) Discuss the following hormones and their effects on the body.

A) Cortisol- stress hormone

Function: blood sugar increase and use of glucose in the brain. Increase in tissue repair availability.

Excess (ie. Cushing's): (SLIDES 24-30) The increase corticosteroids like prednisone= Crushings Syndrome. Crashing's disease is a subsection of crushing's syndrome that is caused by excessive ACTH which is triggered by a tumor on the pituitary gland.

Deficient (ie. Addison's): (SLIDES 32-35)

Adrenal gland failure which is severely low levels of cortisol.

B) Thyroid Hormone (stimulated by TSH) (SLIDES 40-62) - Affects almost every cell

Function: Controls other hormones and stimulates T4 and T3

10 Case Studies In Pathophysiology Answers

VIRUTI SHIVAN



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Electrocardiography Shel Levine, Brian J. Coyne, Lisa Cooper Colvin, 2015-02-13 *Clinical Exercise Electrocardiography* addresses the needs of exercise physiologists working in a clinical setting and highlights static interpretation and rhythm strips and 12 leads Not only does it include the traditional basic electrocardiography ECG arrhythmia myocardial infarction and pacemaker chapters it also provides easy to read chapters on cardiac pathophysiology cardiovascular testing procedures cardiac pharmacology and structural health disease and inflammatory processes The authors also address the differences in ECG interpretation in women children and athletes and examine the use of ECGs in exercise stress testing situations

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