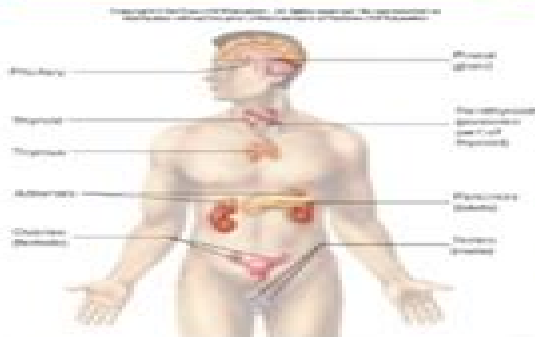


Chapter 10: Endocrine System Anatomy and Physiology

Endocrine System Glands



Cell Secretion Types

- **Autocrine**
 - released by cells and have a local effect on same cell type
 - Example - eicosanoids
- **Paracrine**
 - released by cells that affect other cell types in close proximity
 - Example - somatostatin
- **Neurotransmitter and Neuromodulators**
 - secreted by nerve cells
 - Example - nervous system function
- **Hormones and Neurohormones**
 - secreted into blood and bind to receptor sites
 - Example - epinephrine and insulin

Endocrine System Function

- (1) Metabolism
- (2) Control of Food Intake and Digestion
- (3) Tissue Development
- (4) Ion Regulation
- (5) Water Balance
- (6) Heart rate and Blood pressure regulation
- (7) Control of Blood Glucose and other nutrients

- (8) Control of Reproductive Functions
- (9) Uterine Contraction and Milk Release
- (10) Immune System Regulation

- The target tissues have receptors for a specific hormone.
- Hormones produce a particular response in the target tissue

Characteristics

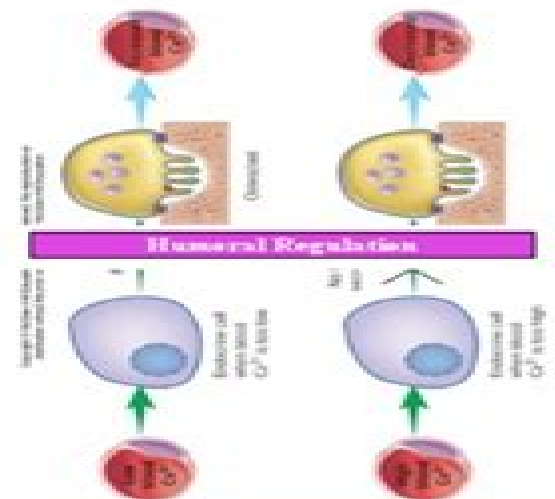
- **Water-soluble hormones:**
 - includes proteins, peptides, amino acids
 - most common
 - Examples - growth hormone, antidiuretic, prolactin

Types of Hormones

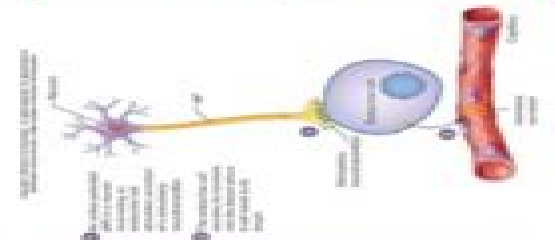
- **soluble hormones** bind to **cytosolic** receptors
 - Examples - LH, FSH, androgens
- Blood-borne chemicals can directly stimulate the release of some hormones.
 - These chemicals are referred to as **humoral stimuli** because they circulate in the blood.

Control of Hormone Release

- Hormone release can also be under **neural** control.
- Following action potentials, neurons release a neurotransmitter into the synapse with the cells that produce the hormone.
- Hormone release can also be controlled by other hormones.
- It occurs when a hormone is secreted that, in turn, stimulates the secretion of other hormones.
- The same three types of stimuli (humoral, neural, and hormonal) can stimulate or inhibit hormone release.



Neural Regulation



Inhibition of Hormone Release

- **Humoral inhibition** of hormone release generally involves the actions of companion hormones.
- Usually each of the companion hormones performs an opposite function.
 - For example, to raise blood pressure, the adrenal cortex secretes the hormone aldosterone in response to low blood pressure, but to lower it the heart atria secrete atrial natriuretic peptide.
 - They work together to maintain homeostasis of blood pressure.
 - Neurons inhibit targets just as often as they stimulate targets.

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ML Yell



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Endocrine System Speedy Study Guides Speedy Publishing, 2014-07-10 Everyone has an endocrine system made up of the hypothalamus pituitary gland pineal gland thyroid gland parathyroid gland pancreas gonads and the thymus Each gland has an important function in providing hormones to the human body The components of each part of the endocrine are in depth and a pamphlet about this system breaks down each gland into important and easy to remember functions for the biology student

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Endocrine Physiology, Fifth Edition Patricia E. Molina, 2018-04-09 The principles of endocrinology and metabolism clearly and simply explained on a system by system organ by organ basis ESSENTIAL FOR USMLE STEP 1 REVIEW A Doody's Core Title for 2022 Applauded by medical students for its clarity comprehensiveness and portability Endocrine Physiology Fifth Edition delivers unmatched coverage of the fundamental concepts of hormone biological actions These concepts provide a solid foundation for first and second year medical students to understand the physiologic mechanisms involved in neuroendocrine regulation of organ function With its emphasis on must know principles Endocrine Physiology is essential for residents and fellows and is the single best endocrine review available for the USMLE Step 1 Here's why this is essential for USMLE Step 1 review Informative first chapter describes the organization of the endocrine system as well as general concepts of hormone production and release transport and metabolic rate and cellular mechanisms of action Boxed case studies help you apply principles to real world clinical situations Each chapter includes bulleted Objectives Key Concepts Study Questions Suggested Readings and diagrams encapsulating key concepts If you've been looking for a student tested basic yet comprehensive review of endocrinology and metabolism your search ends here

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