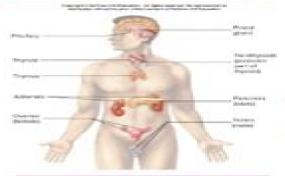
Chapter 10: Endocrine System.

Anatomy and Physiology

Endocrine System Glands



Cell Secretion Types

Autocrine

- released by cells and a have local effect on same cell type
- Essample er cosanoids

Paracrine

- released by cells that affect other cell types in close proximaty
- Example somatostatin

4. Neurotransmitter and Neuromodulators

- secreted by nerve cells
- Example nervous system function.

4 Hormones and Neurobormones

- secreted into blood and bind to receptor sites.
- Example epinephrine and impulin.

Endocrine System Function

- 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 outrients.

- (8) Control of Reproductive Functions:
- (9) Utenine Contraction and Milk Release
- (10) Immune System Regulation
- The target tissues have receptors for a specific hormone.
- Hormones produce a particular remonee in the barget hiceses

Characteristics

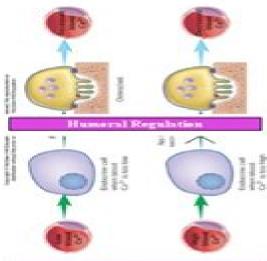
Water-soluble hormones:

- includes proteins, peptides, amino acids
- most commons
- Examples growth hormone. anti-dispreti c. prola-ctini Types of Harmones

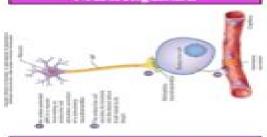
- provide a provide de la companya del la companya de ei cossenoi de
- Examples LH, FSH, androgens
- Blood-borne chemicals can directly stimulate the release of some hormones
- These chemicals are referred to as humoral stimuli because they circulate in the blood.

Centrel of Hormone Release

- → Hormone release can also be under neural control
- → Following action potentials. neurons release a neurotransmitter into the symapse 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 flanction.
 - → 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 atna secrete atnal natriuretic peptide.
 - → They work together to maintain homeostasis of blood pressure.
 - Neurons inhibit targets just as often as they stimulate targets.

Chapter 10 Endocrine System Packet

Linda Lane Lilley, Scott
Harrington, Julie S. Snyder

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