Chapter 16 Endocrine System

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Chapter 16: The Endocrine System

Objectives

1. What is the functional significance of the differences between the two systems?
2. Endocrine System vs. Nervous System

Overview

Endocrine system functions
Endocrine vs. neural control
Types of hormones and their receptors
Hypothalamic – pituitary regulation
Anterior pituitary
Specific endocrine organs
Endocrine diseases

Two types of glands in the body

Exocrine – secrete products through a duct

Chapter 16 Raging Hormones: The Endocrine System

In This Chapter!
Absorbing what endocrine glands do!

Checking out the ringmasters: Pituitary and hypothalamus glands!
Surveying the supporting glands!

Understanding how the body balances under stress

The human body has two separate command and control systems that work in harmony

Overview

Nervous control is fast but short-lived
Hormonal control is slow and lasts a long time

Organs: hypothalamus, pituitary (hypophysis), thyroid, parathyroid, adrenal, pineal, thymus

Other organs have more than one role: pancreas, testis, ovary

Chemistry of hormones:

2 main classes

- Steroid hormones
- Peptide hormones

Table 16-2 summarizes the names and locations of these major endocrine glands. After you are familiar with the basic principles of endocrinology and the major examples of glands and their hormones, you will be prepared for additional examples that you will encounter as you continue your study of the human body.

Endocrine System

Chapter 16 Lecture Outline

- What is the endocrine system?
- Compare and contrast exocrine and endocrine glands.
- What are steroid and peptide hormones?
- Name the major glands and their functions in the Figure 16.2 The endocrine system

Chapter 17 The Endocrine System, Part 1

An overview of hormones and the endocrine system
Describe the structural and functional organization of the hypothalamus and the pituitary and explain their relationship
Discuss the locations and structures of the thyroid and parathyroid glands

Definitions

- Male sex cell
- Fertilized egg
- Joining of a sperm and an egg
- Carries the information that controls inherited characteristics
- Female sex cell
- Process by which living things produce new individuals of the same type

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Author: Jennifer
Created Date: 8/25/2011 11:45:57 AM