

Endocrine System Study Guide

I. Endocrine Overview

- a. The endocrine system consists of glands which secrete **hormones directly into the blood**
 - i. These glands include:
 1. Hypothalamus, pituitary gland, thyroid, parathyroid, pancreas, adrenal glands, placenta (during pregnancy), ovaries, testes, thymus, and pineal gland
 2. The hormones secreted by these glands regulate the functions of different organs and tissues
- b. Glands and their hormones:

i. Pituitary:

1. Anterior pituitary:

- a. TSH
- b. ACTH
- c. LH
- d. GH
- e. Prolactin

2. Posterior pituitary:

- a. Oxytocin
- b. Vasopressin

ii. Thyroid:

1. T4, T3
2. Calcitonin

iii. Parathyroids:

1. Parathyroid hormone (PTH)

iv. Pancreas:

1. Insulin
2. Glucagon
3. Somatostatin
4. Pancreatic polypeptide (PP)

v. Adrenal glands:

1. Epinephrine
2. Norepinephrine
3. Aldosterone
4. Cortisol
5. Androgens

vi. Ovaries:

1. Estrogen

vii. Testes:

1. Testosterone

II. Pituitary Gland:

a. Morphology and overall functions:

i. Gross Anatomy:

1. Well-protected gland, located in a pocket of the sphenoid bone at the base of the brain

ii. Histology:

1. Posterior:

- a. Made up largely of the endings of axons from the hypothalamus
- b. Stores hormones from hypothalamus

2. Anterior:

- a. Contains endocrine cells that synthesize and store hormones
- b. Different cell types produce different hormones →



Guided Endocrine System Study

Ying-Ying Zheng



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