

## 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 →



# Endocrine System Worksheet Study Guide

**Arturo Cuomo**



## **Endocrine System Worksheet Study Guide:**

## Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Endocrine System Worksheet Study Guide**

In some sort of inundated with displays and the cacophony of fast conversation, the profound energy and emotional resonance of verbal beauty frequently disappear into obscurity, eclipsed by the regular assault of sound and distractions. However, situated within the musical pages of **Endocrine System Worksheet Study Guide**, a fascinating perform of literary beauty that pulses with raw feelings, lies an wonderful trip waiting to be embarked upon. Written with a virtuoso wordsmith, that interesting opus manuals viewers on a mental odyssey, gently revealing the latent possible and profound influence embedded within the delicate web of language. Within the heart-wrenching expanse of this evocative evaluation, we can embark upon an introspective exploration of the book is key themes, dissect its interesting publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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