

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 →



Interactive Endocrine System Study Guide

David Kirk



Interactive Endocrine System Study Guide:

The Top Books of the Year Interactive Endocrine System Study Guide The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. Interactive Endocrine System Study Guide : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Interactive Endocrine System Study Guide : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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