



A microscopic view of tissue, likely a histological section, showing various cellular structures. The tissue is stained with pink and blue dyes, highlighting different components. A white horizontal line is visible in the upper right corner of the image.

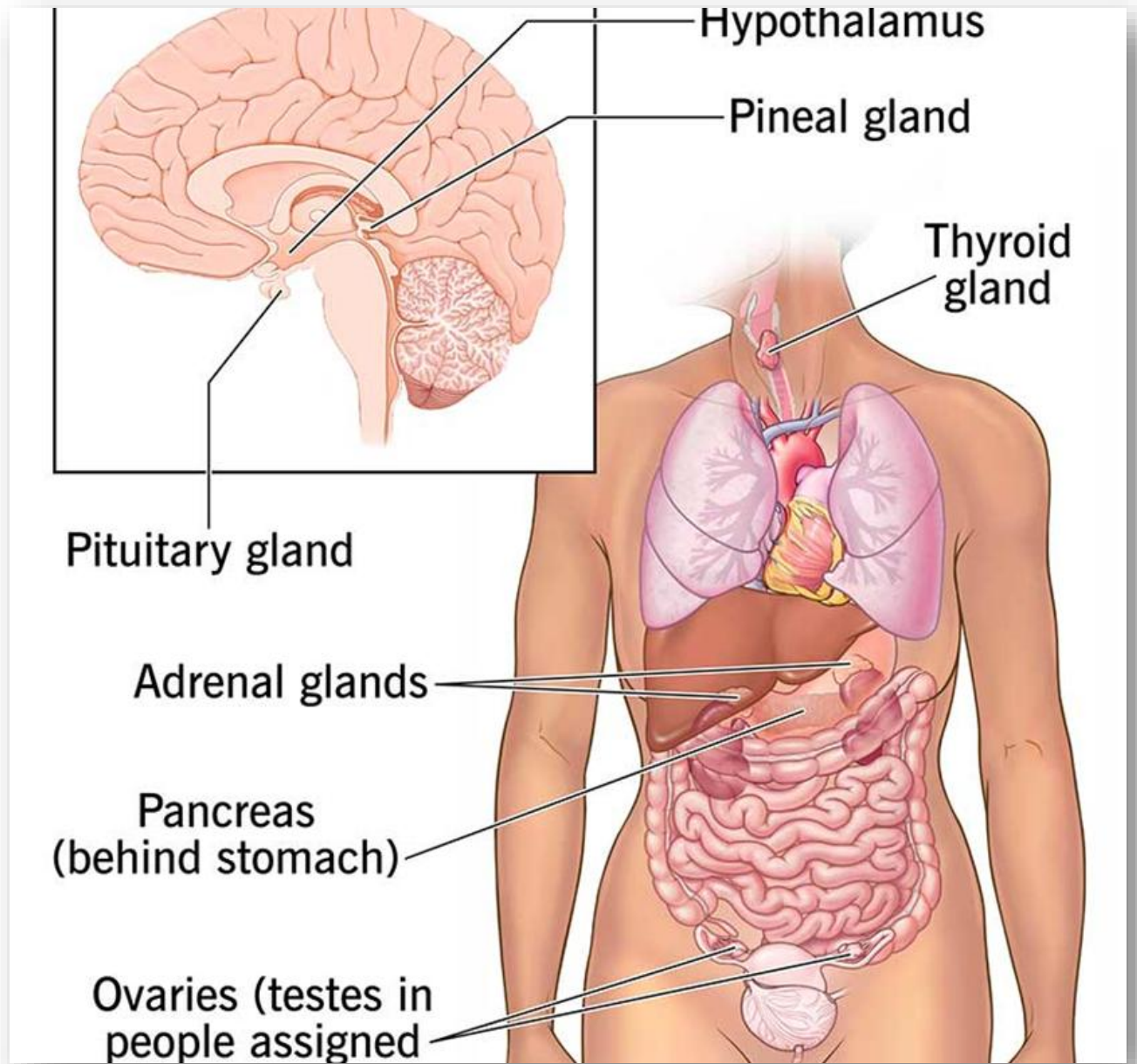
Endocrine System in Medical Terminology

Presented by: Dr. Huda Saad



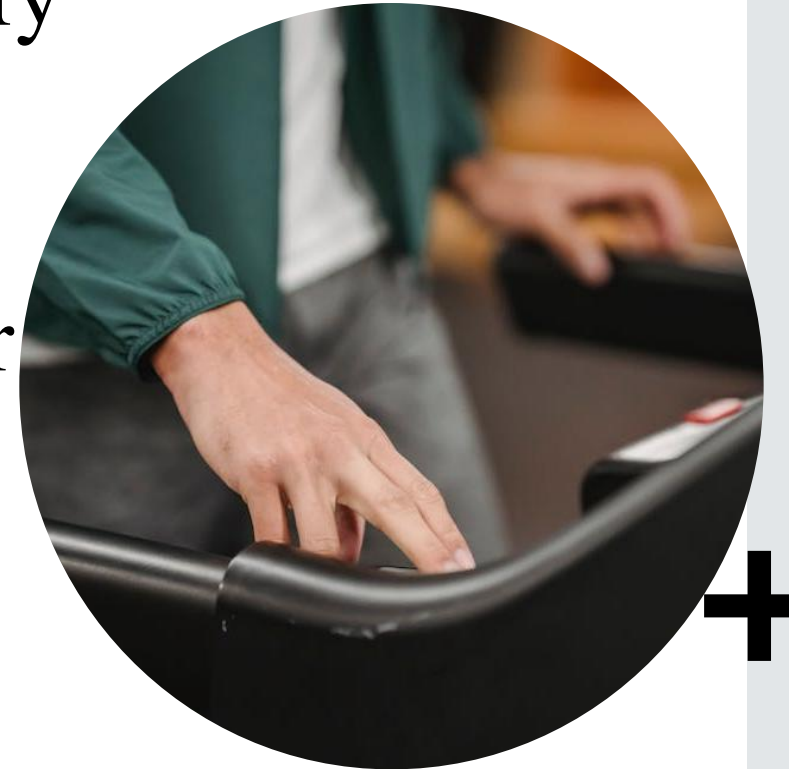
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1. Introduction

Endocrine system is in charge of creating and releasing hormones to maintain countless bodily functions. Endocrine tissues include your pituitary gland, thyroid, pancreas and others. There are several conditions related to endocrine system issues — usually due to a hormone imbalance or problems directly affecting the tissue. a central nervous system (CNS) structure.



2. Major Endocrine Glands



Gland	Medical Terminology	Function
Pituitary Gland (Hypophysis)	<i>Hypophys/o, Pituitar/o</i>	"Master gland" controlling other glands
Thyroid Gland	<i>Thyr/o, Thyroid/o</i>	Regulates metabolism
Parathyroid Glands	<i>Parathyroid/o</i>	Controls calcium levels
Adrenal Glands	<i>Adren/o, Adrenal/o</i>	Produces stress hormones (e.g., cortisol)
Pancreas (Islets of Langerhans)	<i>Pancreat/o</i>	Regulates blood sugar with insulin & glucagon
Pineal Gland	<i>Pineal/o</i>	Controls sleep-wake cycles (melatonin)
Thymus	<i>Thym/o</i>	Involved in immune system function
Gonads (Ovaries & Testes)	<i>Oophor/o (ovaries)</i> 	Produces sex hormones

3. Hormones and Their Medical Terminology

Hormone	Medical Terminology	Function
Growth Hormone (GH)	<i>Somatotropin</i>	Stimulates growth
Thyroid Hormones (T3, T4)	<i>Triiodothyronine (T3), Thyroxine (T4)</i>	Regulate metabolism
Insulin	<i>Insulin/o</i>	Lowers blood sugar
Glucagon	<i>Glucagon/o</i>	Raises blood sugar
Cortisol	<i>Cortic/o</i>	Stress response
Epinephrine (Adrenaline)	<i>Epinephrin/o</i>	"Fight or flight" response
Testosterone	<i>Test/o</i>	Male sexual development
Estrogen & Progesterone	<i>Estr/o, Progest/o</i>	Female reproductive function



4. Medical Abbreviations Related to Endocrinology

Abbreviation	Full Form
TSH	Thyroid-Stimulating Hormone
ACTH	Adrenocorticotrophic Hormone
GH	Growth Hormone
FSH	Follicle-Stimulating Hormone
LH	Luteinizing Hormone
HbA1c	Hemoglobin A1c (diabetes test)
DM	Diabetes Mellitus
T3/T4	Thyroid Hormones



5. Many activities influenced by the endocrine glands

1. Reproduction and lactation
2. Immune system
3. Acid-base balance
4. Fluid intake and fluid balance
5. Carbohydrate, protein, and lipid metabolism
6. Digestion, absorption, and nutrient distribution
7. Blood pressure
8. Stress resistance
9. Adaptation to environmental change, for example, changes in temperature

6. Conclusion



An interconnected glandular system is vital for homeostasis. Dysregulation leads to systemic disorders; advancements in endocrinology improve patient outcomes.



Thank you for
your attention

