

Health - Endocrine System Cheat Sheet by Autumn (Autumn) via cheatography.com/145676/cs/32176/

Endocrine Basics

C Endocrine glands/organs aren't physically connected

Functions

Controls growth, metabolism, sexual activity, mental functions & emotions

Hormones

Causes an action

organ/gland

Acts as a lock & key on specific organs

Glands	
Endocrine Glands	Exocrine Glands
☼ Ductless	Has ducts connecting to another structure
Hormones directly into bloodstream	Hormones directly between structures

Thyroid Gland

Makes T₃ & T₄ hormones

T₃ & T₄ (Thyronine) Hormones

Controls metabolism

for Influences growth, liver, brain & heart function

Makes O2 more available in mitochondria → ATP increase

Calcitonin

Parathyroid Gland

Calcium Roles

Parathyroid Hormone

☼ Increases Ca⁺ levels in blood

Pancreas

Functions

Endocrine: Exocrine: Digestive Regulates related

glucose levels

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C Glucagon Alpha Beta Insulin

Glucagon	Insulin
♪ Increases	☼ Decreases glucose
glucose levels	levels

Glucose-Increasing Methods

Gluconeogenesis: release Muscle turned into sugar

Hypothalamus

Control centre for homeostasis & pituitary gland

feedback

Release-Inhibiting Hormones
For high hormone levels
⇔ Stops hormone release

Negative Feedback

Hormone Levels		
Too High	Too Low	
1. Releasing hormones (hypothalamus)	Release-inhibiting hormones (hypothal-amus)	
2. Stimulating hormones (pituitary gland)	2. Inhibiting hormones (pituitary gland)	
3. Hormones made	3. Hormone production stopped	

Pineal Gland

Controls sleep-wake cycle

Releases melatonin

Melatonin

☼ Induces sleepiness

Calcitonin Vs Parathyroid Hormone

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Calcitonin	Parathyroid Hormone
Stimulates Ca* excretion from intestines	Stimulates Ca* absorption from intestines
	Stimulates Ca* removal from bones into blood
Stimulates Ca* excretion from blood to urine via kidneys	Stimulates Ca* reabsorption in kidneys

By Autumn (Autumn)

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Not published yet. Last updated 2nd June, 2022. Page 1 of 2.

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Gonads

- Releases sex hormones

Posterior (Back) Pituitary Gland

Antidieuretic Hormone (ADH)

- Stimulates water reabsorption in kidneys
- Results in less water urinated

Oxytocin

- Causes uterine contractions and breast milk release
- €7 Stimulates love & attachment

Anterior (Front) Pituitary Gland

Prolactin

Stimulates breast milk production

Adrenocorticotropic Hormone (ACTH)

☼ Stimulates adrenal cortex to release cortisol

Gonadotropins (FSH, LH)

 ☼ Stimulates sperm & ova production

Thyroid Stimulating Hormone (TSH)

Stimulates thyroid glands to release thyroid hormones

Growth Hormone

🖒 Stimulates muscle, bone & skin growth

Adrenal Gland

Cortisol

Deals with chronic stress

Aldosterone

- C Stimulates salt reabsorption
- ☼ Increases Na⁺ levels in blood

Adrenal Gland (cont)

Sex Hormones (Oestrogen, Testosterone)

- Stimulates secondary sex characteristics
- Overridden by gonadotropins

Blood Glucose Measurement

Clinical Indications

- Diabetes screening
- Checking blood glucose levels (BGL)
- Assessing treatment effectiveness in clients with diabetes

Normal BGL Range

Hyperglycaemia	Hypoglycaemia
Abnormally high BGL	Abnormally low BGL
€ BGL above 8 mmol/L	



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