

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

Endocrine Basics

♠ Endocrine glands/organs aren't physically connected

Functions

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

Hormones

- Causes an action
- ☼ Endocrine gland → bloodstream → target 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

- Makes O₂ more available in mitochondria
 ATP increase

Calcitonin

Parathyroid Gland

Calcium Roles

- Strengthens bones

Parathyroid Hormone

☼ Increases Ca⁺ levels in blood

Pancreas

glucose levels

Functions

Endocrine: Exocrine: Digestive Regulates related

GABI Of The Islet Of Langerhan

C Glucagon Alpha Beta Insulin

Glucagon	Insulin
	☼ Decreases glucose
glucose levels	levels

Glucose-Increasing Methods

C→ Glycogen Gluconeogenesis:
release Muscle turned into sugar

Hypothalamus

- Control centre for homeostasis & pituitary gland
- ♠ Releases 2 hormone types for negative feedback

Releasing Hormones	Release-Inhibiting Hormones
For low hormone levels	
⇔ Stimulates hormone release	☆ Stops hormone release

Negative Feedback

Hormone Levels...

Hormone Levels		
Too High	Too Low	
1. Releasing hormones (hypot- halamus)	Release-inhibiting hormones (hypothal- amus)	
 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

Calottomin vo i aratifyrola mornione	
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) cheatography.com/autumn/

Not published yet. Last updated 2nd June, 2022. Page 1 of 2. Sponsored by **CrosswordCheats.com** Learn to solve cryptic crosswords!

http://crosswordcheats.com



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

Gonads

- ☼ Includes testes & ovaries
- 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 low BGL



By **Autumn** (Autumn)

Not published yet. Last updated 2nd June, 2022. Page 2 of 2. Sponsored by **CrosswordCheats.com** Learn to solve cryptic crosswords!