Physiological Effects Of Hormones

on Body Function

This is a Story to help Memorize the Points, don't memorize the story just understand it! Points are colored in Red.

After Food Intake, Digestion takes Place to break Food into smaller substrates, thus Transporting The Substrates To Tissue which leads to Metabolism, Metabolism Produces Reproduction Hormones necessary for Growth and Behavior.

Neutrophils, which mediate the body's Defense Against Pathogens are abundant in the Blood Circulation.

Stress Response

Chemical Classes Of Hormones

Physiology - Lecture 1

	Examples	Size	Solubility Water/Lipid Soluble	Membrane Penetration Of Cell + Nuclear Membrane
Proteins	Many Examples	Large Peptide Hormone: <20 AA Protein Hormone: >20 AA	Water – soluble	Can't Penetrate
A A. Derivatives	Catecholamines Epinephrine, Norepinephrine, Dopamine Thyroid Hormones T4 (aka thyroxine), T3	Small 1-2 AA	Lipid – soluble Except catecholamines = Water Soluble	Can Penetrate Except catecholamine
Steroids	AdrenalCortex H. Cortisol, Aldosterone Sex H. Testosterone, Progesterone, Estrogen Vitamin D	-	Lipid – Soluble	Can Penetrate

- -AA = Amino Acid
- -H. = Hormone/s
- -The Ability To Penetrate the Cell/Nuclear Membrane is affected by the lipid solubility of the Hormone, An Increase in the Lipid solubility will increase the ability of the Hormone to Penetrate, while an Increase in the Water Solubility will Decrease the Ability to Penetrate.

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Dont Forget Your Prayers