

Endocrinology Flashcards PDF

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What is the primary hormone produced by the pancreas that regulates blood glucose levels?

Insulin

What condition is characterized by the body's inability to produce sufficient insulin?

Type 1 Diabetes

What is the term for the condition where the body becomes resistant to insulin?

Type 2 Diabetes

What hormone is secretin and what is its primary function?

Secretin is a hormone that stimulates the pancreas to release bicarbonate to neutralize stomach acid.

What is the role of glucagon in the body?

Glucagon raises blood glucose levels by promoting the conversion of glycogen to glucose in the liver.

What is the main function of cortisol?

Cortisol helps regulate metabolism, reduce inflammation, and control the body's sleep-wake cycle.

What is Addison's disease?

Addison's disease is a disorder that occurs when the adrenal glands do not produce enough hormones, particularly cortisol.

What is Cushing's syndrome?

Cushing's syndrome is a condition caused by excessive levels of cortisol in the blood.

What is the function of thyroid hormones?

Thyroid hormones regulate metabolism, energy generation, and overall growth and development.

What is hyperthyroidism?

Hyperthyroidism is a condition where the thyroid gland is overactive and produces excessive amounts of thyroid hormones.

What is hypothyroidism?

Hypothyroidism is a condition where the thyroid gland is underactive and does not produce enough thyroid hormones.

What is the role of parathyroid hormone (PTH)?

PTH regulates calcium levels in the blood by increasing calcium absorption in the intestines and kidneys.

What is the function of the adrenal medulla?

The adrenal medulla produces catecholamines, such as adrenaline and noradrenaline, which are involved in the body's fight-or-flight response.

What is the primary function of the hormone oxytocin?

Oxytocin is involved in childbirth and lactation, promoting uterine contractions and milk ejection.

What is the role of antidiuretic hormone (ADH)?

ADH helps regulate water balance in the body by promoting water reabsorption in the kidneys.

What is the function of the hormone leptin?

Leptin is involved in regulating energy balance and inhibiting hunger.

What is the role of the hormone ghrelin?

Ghrelin stimulates appetite and promotes food intake.

What is the primary function of the hormone estrogen?

Estrogen is involved in the development of female secondary sexual characteristics and regulation of the menstrual cycle.

What is the primary function of the hormone testosterone?

Testosterone is involved in the development of male secondary sexual characteristics and reproductive functions.

What is the role of insulin-like growth factor (IGF)?

IGF promotes growth and development in various tissues throughout the body.

What is the function of the hormone calcitonin?

Calcitonin helps lower blood calcium levels by inhibiting osteoclast activity in the bones.