ATI TEAS 6 Exam Science Study Guide Version 4

ANATOMY AND PHYSIOLOGY

Endocrine System

Gland/Organ	Hormone Secreted	Function
Hypothalamus	Releasing/Inhibiting hormones	Stimulate Pituitary
Anterior Pituitary (base of brain; controls growth and development	Adrenocorticotropic Hormone (ACTH)	Stimulate adrenal cortex to secrete glucocorticoids
	Thyroid Stimulating Hormone (TSH)	Stimulate the Thyroid gland
	Follicle Stimulating Hormone (FSH)	Stimulates production of ova (females) and sperm (males)
	Luteinizing Hormone (LH)	Stimulates Ovaries (females) and Testes (males)
	Prolactin	Stimulates milk production
	Growth Hormone (GH)	Stimulates growth (bones) and metabolic functions
Posterior Pituitary (back of anterior pituitary)	Antidiuretic Hormone (ADH)	Promotes retention of water by the kidneys
	Oxytocin	Stimulates contraction of uterus and mammary gland cells
Pineal Gland (center of brain)	Melatonin	Sleep cycles; biorhythms
Thyroid (neck; hormones regulate growth, development, and metabolism)	Triiodothyronine (T3)	Metabolism
	Thyroxine (T4)	Metabolism and temperature
	Calcitonin	Inhibits release of Calcium from bones
Parathyroid (4 glands on Thyroid)	Parathyroid Hormone (PTH)	Stimulates release of calcium from bones, back into blood.
Thymus (lymphoid organ that produces T-Cells)	Thymosin	Stimulates T-Cell Development
Adrenal Glands (Above Kidneys; regulate HR, BP, and other functions)	See below	See below
Adrenal Cortex (stimulates fight or flight response)	Cortisol/Glucocorticoids	Stress response; Increase blood glucose, Decrease immune response; metabolism
	Aldosterone	Regulates Na content in blood
Adrenal Medulla (stimulates fight or flight response)	Epinephrine	Fight
	Norepinephrine	Flight
Ovaries (female gonads)	Estrogen	Stimulates egg maturation, controls 2nd sex characteristics
	Progesterone	Prepares uterus to receive fertilized egg
Testes (male gonads)	Testosterone	Regulates sperm production and 2nd sex characteristics
Kidneys	Erythropoietin	Response to cellular hypoxia
	Renin	Promotes production of Angiotensin
Liver	Angiotensin II	Vasoconstriction, Increase BP
Pancreas	Glucagon (Alpha Cells)	Increase blood glucose
	Insulin (Beta Cells)	Decrease blood glucose
Stomach	Gastrin	Response to food; stimulates production of gastric juices
Intestine	Secretin	Response to acidity in small intestine; stimulates secretion by liver and pancreas
	Cholecystokinin	Production of Bile Salts
Heart	Atrial Natriuretic Peptide (ANP)	Increase renal Na excretion, decrease ECF

Answers For Science Study Guide

Rosemary Feasey,Andrea Mapplebeck

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