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The Boundless Human Physiology textbook is a college-level, introductory textbook that covers the intriguing subject of Human Physiology. Boundless works with subject matter experts to select the best open educational resources available on the web, review the content for quality, and create introductory, college-level textbooks designed to meet the study needs of university students.

This textbook covers:

General Chemistry -- Matter and Energy, Element Properties: Atomic structure, Chemical Bonds, Chemical Reactions, Inorganic Compounds, Organic Compounds

Cellular Structure and Function -- the study of cells, Cell membranes and the fluid mosaic model, Transport across membranes, How reception works in cell signaling, Nucleus and Ribosomes, Organelles, The Cytoskeleton, External cellular components, Cell division: process and importance, The cell cycle, Transcription and translation, RNA processing, Translation to a polypeptide, Transcription, Apoptosis signals an orderly cell death

Tissues -- Epithelial Tissue, Cell Junctions, Clinical Cases, Tissue Repair, Tissue Development, Cancer, Connective Tissue, Membranes, Nervous Tissue

The Integumentary System -- The Skin, Accessory Structures of the Skin, Functions of the Integumentary System, Wound Healing, Integumentary System Development, Skin Disorders, Imbalances, Diseases, and Clinical Cases

The Skeletal System -- Overview of the Musculoskeletal system, Divisions of the Skeletal System, The Axial Skeleton, Skull, Hyoid Bone, Vertebral Column, Thorax, Clinical Cases of the Axial Skeleton, The Appendicular Skeleton, The Pectoral (Shoulder) Girdle, Upper Limb, The Pelvic (Hip) Girdle, Lower Limb, Skeletal System Development, Clinical Cases of the Appendicular Skeleton

The Muscular System -- Overview of the Muscular System, Head And Neck Muscles, Trunk Muscles, Muscles of the Upper Limb, Muscles of the Lower Limb, Clinical Cases and Muscular System Disorders

Central Nervous System (CNS) -- The Brain, Consciousness, Sleep, Language, and Memory, Protection of the Brain, Parts of The Brain Stem, The Cerebellum, The Diencephalon, Cerebral Cortex (or Cerebral Hemispheres), Functional Systems of the Cerebral Cortex, Development of the CNS, Brain Disorders and Clinical Cases, The Spinal Cord, Spinal Cord Anatomy, Disorders and Clinical Cases of the Spinal Cord

Peripheral Nervous System (PNS) -- Sensation, Sensory Receptors, Somatosensory System, Nerves, Cranial Nerves, Spinal Nerves, Distribution of Spinal Nerves, Motor Activity, Motor Pathways, Reflexes, Pain, Development of the Nervous System, Disorders of Spinal Nerves and Clinical Cases

The Endocrine System -- Overview of the Endocrine System, Hormones, Mechanisms of Hormone Action, Hormone Interactions, Hormone Secretion Control, Endocrine Glands, The Pituitary Gland (Hypophysis), Thyroid Gland, Parathyroid Glands, Adrenal (Suprarenal) Glands, Pancreas, Other Endocrine Tissues and

Organs, Stress, Developmental Aspects of the Endocrine System, Disorders and Clinical Cases: Endocrine System

Blood -- Overview Blood, Erythrocytes (Red Blood Cells), Leukocytes (White Blood Cells), Platelets, Hemostasis, Transfusions, Developmental Aspects of Blood, Blood Disorders and Clinical Cases

The Cardiovascular System -- The Heart, Circulation and Heart Valves, Cardiac Muscle Tissue, Heart Physiology, Exercise and the Heart, Heart Development, Heart Disorders and Clinical Cases

The Cardiovascular System: Blood Vessels -- Blood Vessel Structure and Function, Arteries, Venous System, Circulation Physiology, Systemic Blood Pressure, Control of Blood Pressure, Blood Flow Through the Body, Capillary Exchange, Circulatory Shock, Blood Vessel Development, Circulatory Routes, Circulatory Disorders and Clinical Cases

The Immune System -- Innate Immunity, Stress and Immunity, Adaptive Immunity, Cytokines, Antigens, Humoral Immune Response, Cell-Mediated Immune Response, Development of the Immune System, Immune System Disorders and Clinical Cases

The Respiratory System -- Overview of the Respiratory System, Anatomy of the Respiratory System, The Lungs and Pleurae, Mechanics of Breathing, Lung Volumes and Capacities, Gas Laws, Gas Exchange, Respiration Control, Respiratory Adjustments, Respiratory System Development, Respiratory System Disorders and Clinical Cases

The following chapters are also included:

The Digestive System

The Urinary System

The Reproductive System

Human Development and Pregnancy

Reproduction, Chromosomes, and Meiosis

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