

Anatomy Chapter 1 Notes

1.1 Anatomy and Physiology Compared

Anatomy- study of structure and form

Greek work: anatome- meaning to cut apart or dissect

Anatomists are scientists who study the structure and form of organisms

examine the relationships among parts of the body
structure of individual organs

Physiology- study of function of body parts

physiologists are scientists who examine how organs and body systems function under normal circumstances and how their functioning may be altered via medication or disease

Anatomy and Physiology are intertwined

one can't be without the other

1.1a. Anatomy: Details of Form

Several specific fields of Anatomy:

Microscopic anatomy- examine structures that cannot be observed by the unaided eye

Cytology- study of body cells and their internal structure

Histology- study of tissues

Gross Anatomy (Macroscopic)- investigates the structure and relationship of body parts that are visible to the unaided eye

Systemic Anatomy- studies the anatomy of each functional body system

Regional Anatomy- examines all of the structures in a particular region of the body as complete unit

Surface Anatomy- focuses on both superficial anatomic markings and the internal body structures that relate to the skin covering them

Comparative Anatomy- examines similarities and the differences in the anatomy of different species

Embryology- discipline concerned with developmental changes occurring from conception to birth

There are several specialized branches of anatomy focused on the diagnosis of medical conditions or the advancement of basic scientific research:

Pathologic Anatomy- examines all anatomic changes resulting from disease

Radiographic Anatomy- investigates the relationships among internal structures that may be visualized by specific scanning procedures (ultrasound, MRI, or x-ray)

Anatomy is a dynamic, changing science, not a static, unchanging one

1.1b. Physiology: Details of Function

Physiology parallels anatomy because it also is very broad and may be divided into smaller groups.

Many specific physiology sub-disciplines focus their studies on a particular body system.

For example, Cardiovascular physiology- examines the functioning of the heart, blood vessels, and blood

Pathophysiology- investigates the relationship between the functioning of an organ system and disease or injury to that organ system

1.2 Anatomy and Physiology Integrated

They may initially appear to be different sciences, but further reflection reveals that these two sciences are integrated, because form (anatomy) and function (physiology) are interrelated.

Learning them together is the easiest way to learn both fields

Anatomists tend to focus on the form and structure

Physiologists focus on the mechanisms and functions of these structures

Anatomy And Physiology 1 Chapter 1 Notes

Richard P. McCall



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Cheerleading Heather E. Schwartz, 2012-06-12 Author Heather E. Schwartz focuses on the biomechanical and physical principles behind the chants and stunts of sideline and competitive cheerleading. This book discusses the similarities between dance and cheerleading and the physical and psychological challenges faced by cheerleaders. Also addressed is the intense debate over whether or not cheerleading should be classified as an athletic sport or activity and how this designation could affect athletes and athletic programs.

Shallow-water sponges of the western Bahamas F. Wiedenmayer, 2013-11-21 During the period the sponges described herein were used only sporadically in the past and were collected 1963-7 the author was a Research Associate regarded as of marginal value until two decades ago at the Department of Geology, University of Illinois. Paleontology and embryology are now receiving great participating in a research project on carbonate attention. They have already brought drastic revisions to sediments of the Bimini area directed by Prof. William systematics.

with regard to redefinition and classification W Hay Department of Geology University of Illinois of higher taxa Other approaches have recently emerged utilizing biochemistry histology cytology autecology now at the Rosenstiel School of Marine and Atmospheric and zoogeography and these promise significant ad Science University of Miami and supported by the National Science Foundation The objective of this pro vance in the delimitation and classification of lower taxa ject was a study of the relationship between the carbo The rapidly changing state of sponge taxonomy is reflect nate sediments of the Bimini area and the benthonic ed in the paucity of definitive i e widely accepted revisions of genera and families The lack of stability and fauna and flora especially with regard to skeletal ele ments contributed to the sediment Current Catalog National Library of Medicine (U.S.),1969 Includes subject section name section and 1968 1970 technical reports The Hidden Life of the Basal Ganglia Hagai Bergman,2021-10-12 The anatomy and physiology of the basal ganglia and their relation to brain and behavior disorders and therapies and philosophy of mind and moral values The main task of the basal ganglia a group of subcortical nuclei located at the base of the brain is to optimize and execute our automatic behavior In this book Hagai Bergman analyzes the anatomy and physiology of the basal ganglia discussing their relation to brain and behavior to disorders and therapies and even to moral values Drawing on his forty years of studying the basal ganglia Bergman presents new information on physiology and computational models Parkinson s disease and other ganglia related disorders and such therapies as deep brain stimulation Focusing on studies of nonhuman primates and human basal ganglia and relying on system physiology and in vivo extra cellular recording techniques Bergman first describes the major brain structures that constitute the basal ganglia the morphology of their cellular elements their synaptic connectivity and their physiological function in health and disease He discusses the computational physiology of the healthy basal ganglia describing four generations of computational models and then traces the computational physiology of basal ganglia related disorders and their treatments including Parkinson s disease and its pharmacological and surgical therapies Finally Bergman considers the implications of these findings for such moral concerns as free will Explaining this leap into domains rarely explored in neuroscientific accounts Bergman writes that the longer he studies the basal ganglia the more he is convinced that they are truly the base of both brain and mind *The Paramedic Revision Guide* David W. Thom,2021-08-23 The Paramedic Revision Guide delivers a one stop reference for paramedic students paramedicine educators and practicing paramedics Designed to take the mystery out of paramedic education the book provides a solid foundation of understanding in crucial areas of paramedic science and practice including practical skills research anatomy and physiology pharmacology and medical emergencies This guide furthers readers understanding and practice of emergency care and includes A thorough introduction to paramedic anatomy and physiology including anatomical and medical terms cellular biology and pediatrics An exploration of practical skills for paramedics including scene survey airway practices basic life support and defibrillation burns and head injuries Practical discussions of medical emergencies research and evidence based practice and the ethical

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Physics of the Human Body Richard P. McCall, 2010-05-09 Richard P McCall s fascinating book explains how basic concepts of physics apply to the fundamental activities and responses of the human body a veritable physics laboratory Blood pumping through our veins is a vital example of Poiseuille flow the act of running requires friction to propel the runner forward and the quality of our eyesight demonstrates how properties of light enable us to correct near and far sightedness Each chapter discusses a fundamental physics concept and relates it to the anatomy and physiology of applicable parts of the body Topics include motion fluids and pressure temperature and heat speech and hearing electrical behaviors optics biological effects of radiation and drug concentrations Clear and compelling with a limited amount of math McCall s descriptions allow readers of all levels to appreciate the physics of the human physique *Physics of the Human Body* will help curious high school students undergraduates with medical aspirations and practicing medical professionals understand more about the underlying physics principles of the human body *Asylum Doctor* Charles S. Bryan, 2014-05-27 This biography of an early twentieth century South Carolina doctor sheds light on his pioneering work with the mentally ill to combat a public health scourge Thousands of Americans died of pellagra before the cause vitamin B3 deficiency was identified Credit for solving the mystery is usually given to Dr Joseph Goldberger of the US Public Health Service But in *Asylum Doctor* Charles S Bryan demonstrates that a coalition of American asylum superintendents local health officials and practicing physicians set the stage for Golberger s historic work chief among them was Dr James Woods Babcock As superintendent of the South Carolina State Hospital for the Insane from 1891 to 1914 Babcock sounded the alarm against pellagra He brought out the first English language treatise on the subject and organized the National Association for the Study of Pellagra He did so in the face of troubled asylum governance which coupled with Governor Cole Blease s political intimidation and unblushing racism eventually drove Babcock from his post *Asylum Doctor* describes the plight of the mentally ill in South Carolina during an era when public asylums had devolved into convenient places to warehouse inconvenient people It is the story of an idealistic humanitarian who faced conditions most people would find intolerable And it is important social history for as this book s epigraph puts it in many ways the Old South died with the passing of pellagra *The Naturalists' Leisure Hour and Monthly Bulletin* ,1888

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