

Chapter 9

Muscles and Muscle Tissue

9.1 Overview of Muscle Tissue

- Nearly half of body's mass
- Can transform chemical energy (ATP) into directed mechanical energy, which is capable of exerting force

Types of Muscle Tissue

- Terminologies: *Myo*, *mys*, and *sarco* are prefixes for muscle
 - Example: sarcoplasm: muscle cell cytoplasm
- Three types of muscle tissue
 - **Skeletal**
 - **Cardiac**
 - **Smooth**
- **Skeletal muscle**
 - **Skeletal muscle tissue** is packaged into *skeletal muscles*: organs that are attached to bones and skin
 - **Skeletal muscle fibers** are longest of all muscle and have *striations* (stripes)
 - Also called **voluntary muscle**: can be consciously controlled
 - Contract rapidly; tire easily; powerful
 - Keywords for skeletal muscle: *skeletal*, *striated*, and *voluntary*
- **Cardiac muscle**
 - **Cardiac muscle tissue** is found only in heart
 - Makes up bulk of heart walls
 - Striated
 - Involuntary: cannot be controlled consciously
 - Contracts at steady rate due to heart's own pacemaker, but nervous system can increase rate
 - Keywords for cardiac muscle: *cardiac*, *striated*, and *involuntary*
- **Smooth muscle**
 - **Smooth muscle tissue**: found in walls of hollow organs
 - Examples: stomach, urinary bladder, and airways
 - Not striated
 - Involuntary: cannot be controlled consciously
 - Can contract on its own without nervous system stimulation

Characteristics of Muscle Tissue

- All muscles share four main characteristics:
 - **Excitability** (responsiveness): ability to receive and respond to stimuli
 - **Contractility**: ability to shorten forcibly when stimulated
 - **Extensibility**: ability to be stretched

Chapter 9 Muscles And Muscle Tissue

**Kevin T. Patton, Frank B. Bell, Terry
Thompson, Peggie L. Williamson, Eric L.
Sun**

Chapter 9 Muscles And Muscle Tissue:

Study Guide for The Human Body in Health & Disease - E-Book Kevin T. Patton, Frank B. Bell, Terry Thompson, Peggie L. Williamson, Eric L. Sun, 2023-03-02 Reinforce your understanding of the concepts in Patton's *The Human Body in Health Disease* Corresponding to the chapters in the text this study guide reviews essential medical terminology concepts and processes related to anatomy and physiology and explains how body systems function in health and disease Each chapter begins with a quick synopsis of the key points in the textbook chapter A variety of exercises make it easier to review and apply key concepts and labeling of anatomy drawings helps in learning anatomical terms and structures Know your Medical Terms feature helps familiarize you with the various word parts used in medical terminology and pairs nicely with the Language of Medicine word lists in the main text to reinforce medical terminology concepts that are key to understanding A P Brief synopsis of core textbook concepts provides a comprehensive review of essential content Crossword Puzzles and Word Finds help you master new vocabulary terms Application Questions ask you to make judgments based on the information in the chapter Diagrams and labeling exercises help reinforce where the structures of the body are located Matching and fill in the blank exercises aid in understanding chapter content Answers to exercises are provided in the back of the guide along with references to the appropriate textbook page and the textbook objective so that you can easily find where the material is presented Study tips in the Preface provide an overview of the most effective methods for learning and retaining information

Mosby's Essential Sciences for Therapeutic Massage - E-Book Sandy Fritz, 2012-04-16 The fourth edition of this science essentials text for massage students features new full color photos and illustrations along with an easy to read conversational style that explains A P concepts clearly The book not only helps students learn the information they need to pass certification exams but it also helps them see how scientific content applies to actual practice This new edition also features a very enhanced Evolve resource package along with new material on boosting your knowledge of nutrition and research two subjects of growing interest in the massage therapy profession Clinical reasoning activities included in the workbook section for each chapter promote problem based learning Format combining workbook and textbook features gives you immediate review tools in the form of matching exercises short answer questions fill in the blank questions drawing exercises and critical thinking questions Sections on pathologic conditions feature intervention protocols as well as indications and contraindications for therapeutic massage Expert author Sandy Fritz provides credibility and authority to the information presented Practical Applications boxes in each chapter enable you to see the way material applies to real practice and supports competency based learning Highly illustrated format features over 700 full color line drawings and photos Updated chapters and artwork have all been revised to reflect the most current industry information and reviewer feedback MTBOK mapping for instructors on the Evolve website includes a mapping document that links the student objectives in the book to the components of the MTBOK New muscle illustrations in Chapter 9 clearly show attachments and

actions as well as the relationships between different muscles in composite drawings Coverage of nutrition now in Chapter 12 includes information on the digestive process basics of solid nutrition how vitamins and minerals affect the body and how proper nutrition affects the functions of all systems of the body Enhanced pathology and indications contraindications appendix includes more illustrations to increase your understanding of what you may encounter during practice Improved biomechanics chapter activities that use photos instead of drawings help you better understand and apply gait assessment and muscle testing concepts

The Human Body in Health & Disease - E-Book Kevin T. Patton, Gary A. Thibodeau, 2017-01-11 No one explains A P more clearly The Human Body in Health Disease 7th Edition makes it easier to understand how the body works both in normal conditions and when things go wrong Its easy to read writing style more than 500 full color illustrations and unique Clear View of the Human Body transparencies keep you focused on the principles of anatomy physiology and pathology New to this edition are Connect It features with bonus online content and concept maps with flow charts to simplify complex topics From noted educators Kevin Patton and Gary Thibodeau this book presents A P in a way that lets you know and understand what is important More than 545 full color photographs and drawings bring difficult A P concepts to life and illustrate the most current scientific knowledge Clear conversational writing style breaks down information into brief chunks making principles easier to understand UNIQUE Clear View of the Human Body transparencies allow you to peel back the layers of the body with a 22 page full color insert showing the male and female human body along several planes Over 50 Animation Direct 3 D animations provide dynamic visual explanations for key concepts with callouts in the text directing you to these animations on the Evolve companion website Language of Science Language of Medicine presents lists of medical terms pronunciations and word parts to help you become familiar with A P terminology and the meanings of individual word parts Useful learning features include study tips chapter objectives case studies critical thinking questions summary boxes review questions and chapter tests A study guide reinforces your understanding of anatomy and physiology with a variety of practical exercises to help you review and apply key A P concepts Sold separately NEW and UNIQUE Connect It articles on the Evolve companion website provide bonus information for you to explore and are called out in the text NEW and UNIQUE Active Concept Maps on Evolve utilize animated and narrated flow charts to explain complex topics and are also called out in the text NEW Chapter objectives and Active Learning sections more closely tie objectives to the end of chapter material UPDATED Genetics chapter includes the latest and most important advances

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applied anatomy and the clinical practice of dentistry Applied anatomy is included throughout the book and in a separate chapter to help students retain a clear picture when these structures are encountered later on in their clinical years The art program has been completely reworked resulting in digitized illustrations of the highest quality most in a striking two color format Also included are 149 pages appearing in full color emphasizing important concepts and anatomy of the skull and regions of the head

The Chemistry of Leather Manufacture John Arthur Wilson,1928 **Monograph Series**
American Chemical Society,1923 **The Surgical Appliance Technician's Handbook** Howard L. Boyland,1954

Principles of Human Anatomy Gerard J. Tortora,1995 Designed for introductory courses in human anatomy this text assumes no previous study of the human body Instead this book helps to facilitate a basic understanding of this broad discipline by presenting data unified concepts and vocabulary in a manner that is easy for students to understand Although the focus is on anatomy links are made between structures and functions to help students understand anatomical concepts The understanding of structure and function is further enhanced by considering defects and disorders in clinical settings Organized by systems rather than regions each chapter of this seventh edition has been revised This text s coverage of the human anatomy is now complemented by new features including questions with figures colour anatomy photographs improved readability phonetic pronunciations and more exhibits

Human Function and Structure Dorothy S. Luciano,Arthur J. Vander,James H. Sherman,1978

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