

CHAPTER 6 - SKELETAL SYSTEM

COMPONENTS:

- *Bones*
- *Joints & Associated Cartilages*

SKELETAL

- Derived from Greek word meaning "*dried*"
- Consist of dynamic, living tissues that are able to grow, detect pain stimuli, adapt to stress & undergo repair after injury.
- FRAMEWORK to support the soft tissues of the body.

MAJOR FUNCTIONS:

1.) SUPPORT

- Major supporting tissues of the body
- **Cartilages** – provides firm yet flexible support (ex. Nose, external ear, thoracic cage & trachea)
- **Ligaments** – strong bands of fibrous connective tissue that attach to bones & hold them together.

2.) PROTECTION

- Protects the organ it surrounds
(Ex. Skull encloses and protects the brain)

3.) MOVEMENT

- **Tendons** – skeletal muscles attach to bones
- **Smooth Cartilages** – covers the ends of bones within some joints ; allowing the bones to move freely
- **Ligaments** – allow some movements between bones but prevent excessive movements

4.) STORAGE

- **Calcium & Phosphorus** – taken into bones and stored
- * **Adipose tissue** – stored w/in bone cavities (fats)
- **Lipids** – Released into the blood and used by other tissues as a *source of energy*

5.) BLOOD CELL PRODUCTION

- Cavities filled with red bone marrow
 - produces blood cells & platelets

EXTRACELLULAR MATRIX

- *Collagen (Tough rope-like proteins)*
- *Proteoglycans (Polysaccharides)*
- *Tendons (Collagen Fibers)*
- *Ligaments (Collagen Fibers)*
- *Cartilage (Collagen & Proteoglycans)*
- *Hydroxyapatite (Calcium Phosphate Crystals)*

GENERAL FEATURES OF BONE

1. LONG BONES

- Longer than they are wide

2. SHORT BONES

- Broad as they are long

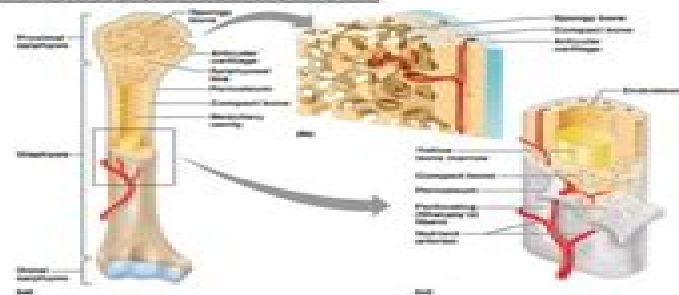
3. FLAT BONES

- Relatively thin, flattened shape

4. IRREGULAR BONES

- Vertebrae & Facial Bones

STRUCTURE OF A LONG BONE



• DIAPHYSIS

- Central Shaft

• EPIPHYSIS

- Two ends

• ARTICULAR CARTILAGE

- covers the ends of the epiphyses where the bone articulates with other bones.

• EPIPHYSEAL PLATE

- Growth plate, where the bone grows in length.
- Composed of cartilage, between each epiphysis and the diaphysis

• EPIPHYSEAL LINE

- When the bone growth stops, this replaces the epiphyseal plate.

• MEDULLARY CAVITY

- Large cavity in the diaphysis

• MARROW

- A soft tissue that fills the spaces
- **Yellow Marrow** – consist of mostly adipose tissues; **Red Marrow** – consist of blood-forming cell and is the only site of blood formation in adults.

• PERIOSTEUM

- Covers most of the outer surface of the bones
- Encloses the diaphysis
- Contains blood vessels and nerves

• ENDOSTEUM

- Thinner connective tissue membrane that lines the surface of the medullary cavity

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Nancy Caroline's Emergency Care in the Streets Essentials Package American Academy of Orthopaedic Surgeons (AAOS), 2022-07-29 Nancy Caroline's Emergency Care in the Streets Essentials Package includes Content Instruction Student Learning Materials Textbook Instructor Guide Practice Activities Audiobook Assessments Analytics Slides Only available when assigned by instructors Nancy Caroline's Emergency Care in the Streets Ninth Edition is the newest evolution of the premier paramedic education training program This legendary paramedic textbook was first developed by Dr Nancy Caroline in the early 1970s and transformed paramedic education Today lead editors Bob Elling and Barb Aehlert along with the American Academy of Orthopaedic Surgeons are proud to continue this legacy and set the new gold standard for the paramedics of tomorrow The Ninth Edition offers cutting edge evidence based content that meets or exceeds the most current scientific recommendations developed by the International Liaison Committee on Resuscitation ILCOR and the ECC Guidelines established by the American Heart Association and other resuscitation councils around the world Clear chapter objectives align with the 2019 National EMS Scope of Practice Model and 2021 EMS Education Standards Thoroughly reviewed by medical doctors and subject matter experts the Ninth Edition teaches students the technical skills required of today's paramedic while emphasizing other important professional attributes including critical thinking empathy teamwork communication problem solving and personal well being Taking a systemic approach to the assessment and management of traumatic and medical emergencies and devoting entire chapters to special topics such as mass casualty incidents the Ninth Edition covers the full scope of paramedic practice Some of the key high level updates to the Ninth Edition include the following Language carefully reviewed throughout text to ensure gender neutrality racial inclusivity and nonstigmatizing descriptions of patient conditions NEW Street Smarts boxes throughout the text to emphasize the soft skills expected of today's paramedics Images updated to reflect appropriate PPE in the current COVID 19 setting Added emphasis on current spinal motion restriction guidelines Thoroughly reviewed and updated references statistics and case studies CPR and ACLS algorithms updated throughout text to reflect the current AHA guidelines 2023 2400 pages *Emergency Care and Transportation of the Sick and Injured Advantage Package* American Academy of Orthopaedic Surgeons (AAOS), 2021-02-12 Since 1971 *Emergency Care and Transportation of the Sick and Injured* has advanced how EMS education is delivered to help train exceptional EMS professionals around the globe **Nancy Caroline's Emergency Care in the Streets Advantage Package (Canadian Edition)** American Academy of Orthopaedic Surgeons (AAOS), Paramedic Association of Canada, Nancy L. Caroline, Russell MacDonald, 2020-03-06 Navigate 2 Advantage Access unlocks a complete Audiobook Study Center homework and Assessment Center and a dashboard that reports actionable data Experience Navigate 2 today at www.jblnavigate.com 2 In the early 1970s Dr Nancy Caroline developed the first paramedic textbook and transformed paramedic education Today the Paramedic Association of Canada is proud to continue this legacy delivering world class

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Foundations of Sports Coaching Ashley Gill,2014-10-30 Now in a fully revised and updated second edition Foundations of Sports Coaching is a comprehensive and engaging introduction to the practical vocational and scientific principles that underpin the sports coaching process It provides the reader with all the skills knowledge and scientific background they will need to prepare athletes and sports people technically tactically physically and mentally With practical coaching tips techniques and tactics highlighted throughout the book covers all the key components of a foundation course in sports coaching including the development of sports coaching as a profession coaching styles and technique planning and management basic principles of anatomy physiology biomechanics and psychology fundamentals of training and fitness performance analysis reflective practice in coaching This second edition features more case studies from real top level sport including football basketball and athletics helping the student to understand how to apply their knowledge in practice and providing useful material for classroom discussion The book also includes a greater range of international examples more references to contemporary research and a stronger evidence base and new questions in each chapter to encourage the

student to reflect upon their own coaching practice Foundations of Sports Coaching bridges the gap between theory and applied practice and is essential reading for all introductory coaching courses and for any sports coach looking to develop their professional expertise **Pediatric Basic Trauma Life Support** Ann Marie Dietrich, Steven Shaner, 1995-11

Memmler's Structure & Function of the Human Body, Enhanced Edition Barbara Janson Cohen, Kerry L. Hull, 2020-08-03 Continuing the tradition of excellence that has made it the preferred A P resource for allied health students the latest edition of Memmler's Structure and Function of the Human Body prepares you for success in your healthcare careers through easy to understand beautifully illustrated coverage of **Fundamental Concepts and Skills for the Patient Care Technician - E-Book** Kimberly Townsend Little, 2022-06-19 Master the skills you need to succeed as a patient care technician Fundamental Concepts and Skills for the Patient Care Technician 2nd Edition provides a solid foundation in healthcare principles and in the procedures performed by PCTs and other health professionals Coverage of skills includes patient hygiene infection control taking vital signs moving and positioning of patients blood and specimen collecting and testing ECG placement and monitoring care of the surgical patient care of older adults and more Clear step by step instructions help you learn each procedure and may also be used as skills checklists Written by nursing educator Kimberly Townsend Little this text prepares students for success on Patient Care Technician or Nursing Assistant Certification exams More than 100 step by step skills and procedures cover the information found on the Nursing Assistant and Patient Care Technician certification exams Practice Scenarios present realistic case studies with questions to help you practice critical thinking and apply concepts to the practice setting Delegation and Documentation boxes cover the information needed from the nurse before a procedure and what information should be recorded after the procedure Illness and Injury Prevention boxes highlight important safety issues Chapter review questions test your understanding of important content Chapter summaries emphasize key points to remember Chapter objectives and key terms outline the important concepts and essential terminology in each chapter NEW A chapter on medication administration is added to this edition NEW New content is included on NG and gastric tubes oral suctioning incentive spirometry use of a bladder scanner and inserting peripheral IVs NEW Updated guidelines include CPR and dietary guidelines **Insurance Handbook for the Medical Office** Marilyn Fordney, 2013-01-01 A complete guide to insurance billing and coding Insurance Handbook for the Medical Office 13th Edition covers all the plans that are most commonly encountered in clinics and physicians offices Its emphasis on the role of the medical insurance specialist includes areas such as diagnostic coding procedural coding Medicare HIPAA and bill collection strategies Learning to fill in the claim form accurately is made easier by the use of icons for different types of payers lists of key abbreviations and numerous practice exercises This edition provides the latest on hot topics such as ICD 10 healthcare reform the new CMS 1500 form and electronic claims Trusted for more than 30 years this proven reference from Marilyn Fordney prepares you to succeed as a medical insurance professional in any outpatient setting Emphasis on the

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Resources in Education ,1999-04 *Multimedia Preservation : Capturing the Rainbow* National Library of Australia. National Preservation Office. Conference,National Library of Australia,1996 *Didactic Training Package for Grant Entitled "The Pharmacist as a Provider of Primary Care"* Phoenix Indian Medical Center,1977 *Ladies' Home Journal and Practical Housekeeper* ,1885 **Using The Biological Literature** Diane Schmidt,Elisabeth B. Davis,2001-12-06 Provides an in depth review of current print and electronic tools for research in numerous disciplines of biology including dictionaries and encyclopedias method guides handbooks on line directories and periodicals Directs readers to an associated Web page that maintains the URLs and annotations of all major Internet resources discussed in th *British Medical Journal* ,1891

Mastering Medical Terminology - E-Book Epub Emma Barker,Stephane Gjorgioski,Melanie Tassos,2025-11-01 Medical terms demystified Every health professional comes across unfamiliar medical terms from time to time Mastering Medical Terminology teaches students and practitioners to decipher the meanings of word parts and understand complex terminology associated with the human body and common diseases and procedures With a focus on Australian and New Zealand spelling and pronunciation conventions this invaluable resource provides easy to understand descriptions of human anatomy and physiology by body system It includes information about the common diseases and procedures that relate to these body systems Also provided are comprehensive definitions of terminology pronunciation guides and reinforcement of learning through a wide variety of exercises and practice questions The fourth edition of this go to textbook has been fully updated by a team of expert authors to reflect current medical terminology and the local healthcare environment Combines learning and application in one text the only reference guide needed for the undergraduate and early clinical years Takes a

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Biology ,1986 **Anatomy and Physiology of Hearing for Audiologists** William W. Clark, Kevin K. Ohlemiller, 2008 The first anatomy and physiology text just for audiologists this new text brings together some of the best professional minds in the field to consider the structures and mechanisms of the auditory system Basic science is covered in the foundations section of the text giving a much needed examination of the biological processes in terms the audiologist needs most Detailed examination of the anatomy and physiology of hearing follows with diagrams and in depth discussions The text concludes with chapters on the pathology of hearing covering the different causes of hearing loss from noise induced hearing loss to genetic aspects of hearing loss From start to finish this text is written specifically for the audiologist making it an essential foundational resource

Basic Pharmacology for Nurses Bruce D. Clayton, Yvonne N. Stock, 2001 A new chapter on Nutrition contains up to date information on nutritional implications in pharmacology and drug food interactions as they relate to patient education as well as an overall treatment plan Numerous topics such as diabetes mellitus prostatic hyperplasia erectile dysfunction oral contraceptives and obstetrics have been thoroughly updated with cutting edge information

BOOK JACKET The Speech Chain Dr. Peter B. Denes, Dr. Elliot N. Pinson, 2016-08-09 Originally published in 1963 The Speech Chain has been regarded as the classic easy to read introduction to the fundamentals and complexities of speech communication It provides a foundation for understanding the essential aspects of linguistics acoustics and anatomy and explores research and development into digital processing of speech and the use of computers for the generation of artificial speech and speech recognition This interdisciplinary account will prove invaluable to students with little or no previous exposure to the study of language

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Table of Contents Anatomy And Physiology Chapter 6 Packet Packet

1. Understanding the eBook Anatomy And Physiology Chapter 6 Packet Packet
 - The Rise of Digital Reading Anatomy And Physiology Chapter 6 Packet Packet
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Chapter 6 Packet Packet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Anatomy And Physiology Chapter 6 Packet Packet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Chapter 6 Packet Packet
 - Personalized Recommendations
 - Anatomy And Physiology Chapter 6 Packet Packet User Reviews and Ratings
 - Anatomy And Physiology Chapter 6 Packet Packet and Bestseller Lists
5. Accessing Anatomy And Physiology Chapter 6 Packet Packet Free and Paid eBooks
 - Anatomy And Physiology Chapter 6 Packet Packet Public Domain eBooks
 - Anatomy And Physiology Chapter 6 Packet Packet eBook Subscription Services
 - Anatomy And Physiology Chapter 6 Packet Packet Budget-Friendly Options
6. Navigating Anatomy And Physiology Chapter 6 Packet Packet eBook Formats

- ePub, PDF, MOBI, and More
 - Anatomy And Physiology Chapter 6 Packet Packet Compatibility with Devices
 - Anatomy And Physiology Chapter 6 Packet Packet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anatomy And Physiology Chapter 6 Packet Packet
 - Highlighting and Note-Taking Anatomy And Physiology Chapter 6 Packet Packet
 - Interactive Elements Anatomy And Physiology Chapter 6 Packet Packet
 8. Staying Engaged with Anatomy And Physiology Chapter 6 Packet Packet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anatomy And Physiology Chapter 6 Packet Packet
 9. Balancing eBooks and Physical Books Anatomy And Physiology Chapter 6 Packet Packet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anatomy And Physiology Chapter 6 Packet Packet
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Anatomy And Physiology Chapter 6 Packet Packet
 - Setting Reading Goals Anatomy And Physiology Chapter 6 Packet Packet
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Anatomy And Physiology Chapter 6 Packet Packet
 - Fact-Checking eBook Content of Anatomy And Physiology Chapter 6 Packet Packet
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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 $\tan 45^\circ = \frac{15}{b}$ $\sin 45^\circ = \frac{15}{a}$

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