

# 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

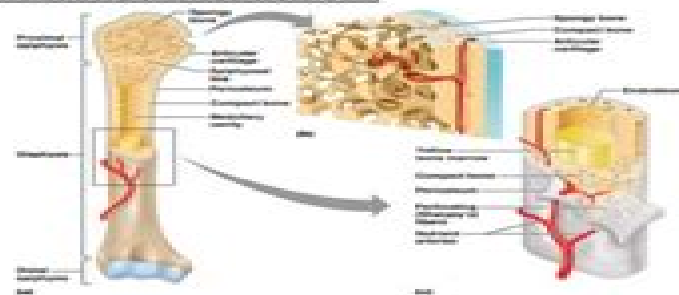
### 3. FLAT BONES

- 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

# Quizlet Anatomy And Physiology Chapter 6

**Marvellous Moyo,Tawanda Mushiri**



## Quizlet Anatomy And Physiology Chapter 6:

*Moving Towards Everlasting Artificial Intelligent Battery-Powered Implants* Marvellous Moyo, Tawanda Mushiri, 2024-10-15 *Moving Towards Everlasting Artificial Intelligent Battery Powered Implants* presents the development process of new artificial intelligent AI charging systems for battery powered implants that can last for a lifetime after implantation. This book introduces new strategies to address the limitations of technologies that have been employed to improve the lifespan of medical implants. This book also provides guidelines that medical implant manufacturers can adopt during their product development stages. This adds a new dimension of research on medical device implants that can be a game changer for the AI medical implants industry. Researchers, engineers, and graduate students in the fields of biomedical engineering, electrical engineering, and computer science will find this text helpful as they seek to understand the potential of AI systems to help achieve sustainability in healthcare and make current medical implants relevant in the future. Presents basic and advanced concepts in medical implants design. Explores various uses of AI and engineering concepts in optimization and enhancement of medical devices. Facilitates new approaches in improving patient safety and reliability of medical devices.

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## **Table of Contents Quizlet Anatomy And Physiology Chapter 6**

1. Understanding the eBook Quizlet Anatomy And Physiology Chapter 6
  - The Rise of Digital Reading Quizlet Anatomy And Physiology Chapter 6
  - Advantages of eBooks Over Traditional Books
2. Identifying Quizlet Anatomy And Physiology Chapter 6
  - 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 Quizlet Anatomy And Physiology Chapter 6
  - User-Friendly Interface
4. Exploring eBook Recommendations from Quizlet Anatomy And Physiology Chapter 6
  - Personalized Recommendations
  - Quizlet Anatomy And Physiology Chapter 6 User Reviews and Ratings

- Quizlet Anatomy And Physiology Chapter 6 and Bestseller Lists
- 5. Accessing Quizlet Anatomy And Physiology Chapter 6 Free and Paid eBooks
  - Quizlet Anatomy And Physiology Chapter 6 Public Domain eBooks
  - Quizlet Anatomy And Physiology Chapter 6 eBook Subscription Services
  - Quizlet Anatomy And Physiology Chapter 6 Budget-Friendly Options
- 6. Navigating Quizlet Anatomy And Physiology Chapter 6 eBook Formats
  - ePub, PDF, MOBI, and More
  - Quizlet Anatomy And Physiology Chapter 6 Compatibility with Devices
  - Quizlet Anatomy And Physiology Chapter 6 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Quizlet Anatomy And Physiology Chapter 6
  - Highlighting and Note-Taking Quizlet Anatomy And Physiology Chapter 6
  - Interactive Elements Quizlet Anatomy And Physiology Chapter 6
- 8. Staying Engaged with Quizlet Anatomy And Physiology Chapter 6
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Quizlet Anatomy And Physiology Chapter 6
- 9. Balancing eBooks and Physical Books Quizlet Anatomy And Physiology Chapter 6
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Quizlet Anatomy And Physiology Chapter 6
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Quizlet Anatomy And Physiology Chapter 6
  - Setting Reading Goals Quizlet Anatomy And Physiology Chapter 6
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Quizlet Anatomy And Physiology Chapter 6
  - Fact-Checking eBook Content of Quizlet Anatomy And Physiology Chapter 6
  - 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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