

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

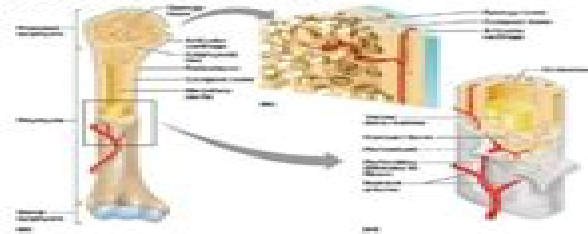
EXTRACELLULAR MATRIX

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

Anatomy Physiology Chapter 7 Test

Peipei Pang



Anatomy Physiology Chapter 7 Test:

This book delves into Anatomy Physiology Chapter 7 Test. Anatomy Physiology Chapter 7 Test is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Anatomy Physiology Chapter 7 Test, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Anatomy Physiology Chapter 7 Test
- Chapter 2: Essential Elements of Anatomy Physiology Chapter 7 Test
- Chapter 3: Anatomy Physiology Chapter 7 Test in Everyday Life
- Chapter 4: Anatomy Physiology Chapter 7 Test in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Anatomy Physiology Chapter 7 Test. This chapter will explore what Anatomy Physiology Chapter 7 Test is, why Anatomy Physiology Chapter 7 Test is vital, and how to effectively learn about Anatomy Physiology Chapter 7 Test.
3. In chapter 2, the author will delve into the foundational concepts of Anatomy Physiology Chapter 7 Test. The second chapter will elucidate the essential principles that must be understood to grasp Anatomy Physiology Chapter 7 Test in its entirety.
4. In chapter 3, this book will examine the practical applications of Anatomy Physiology Chapter 7 Test in daily life. This chapter will showcase real-world examples of how Anatomy Physiology Chapter 7 Test can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Anatomy Physiology Chapter 7 Test in specific contexts. The fourth chapter will explore how Anatomy Physiology Chapter 7 Test is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Anatomy Physiology Chapter 7 Test. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Anatomy Physiology Chapter 7 Test.

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