

# 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

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## 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.

**Instincts by Design** Ernest Howard Callahan, 2023-09-12 Inside Instincts by Design you will discover scientific mysteries of human and animal bodies only creation can explain. This fascinating full color book explores the instincts that are necessary for life, helpful for growth and necessary for protection. Instincts by Design will keep readers captivated with answers to questions like these: How does a baby know when to inhale and exhale? How does a mother's milk change to meet the needs of her baby? Why is the instinct to sleep one that we cannot override? Why is it important that your tongue is the center of your taste receptors? Why is the hunger instinct crucial for survival? What instincts help brainless jellyfish hunt and kill their prey? Why would God give horses the ability to sleep standing up? How do more than 5000 species of birds journey thousands of miles every year? The key question for someone doubting there is a God is whether these complex sets of instructions could have appeared without a Programmer. Instincts by Design is the ProBible resource you will want to share with family and friends who need more evidence that they are fearfully and wonderfully made by the Almighty God. Christian readers will finish this book with an awe of the creative perfectionist God who loves us so much that he did all this for everyone.

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