

# 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

# Anatomy And Physiology The Skeletal System Packet Answers

**R Barnett**



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web feb 26 2020 this paper addresses the probabilistic analysis of casing tubulars regarding the failure modes defined in api 5c3 code which refers to the violation of elastic regime due to internal and external pressures and axial force the casing system performs important structural and isolation functions ensuring the well integrity through its life cycle

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