

## 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

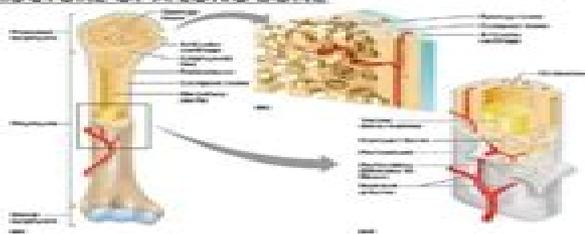
### EXTRACELLULAR MATRIX

- **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
- **EPHYSIS**
  - 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

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**Diane M. Billings, Judith A. Halstead**



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