

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:

1.1 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

4.1 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*

5.1 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

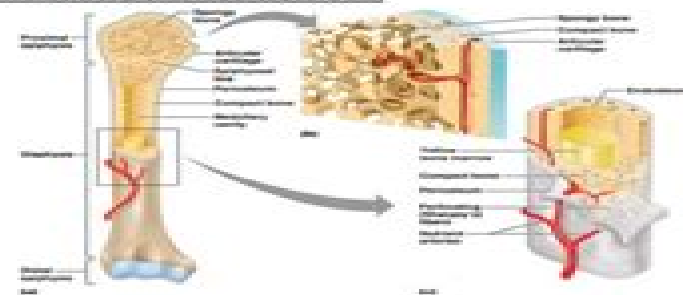
3. FLAT BONES

- 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

Richard Bailey



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