

# 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

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web sep 22 2023 a set of appropriate cutting parameters is one of the most important technology for getting good machining results you can set a large group of parameters e g laser power cut speed focus position assist gas etc which can control almost every single detail of a cutting process

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web in the laser cutting process laser parameters such as laser output power and pulsating frequency cutting speed assisting gas pressure and focal distance determine the end product quality the sideways burning along the cutting paths results in poor cutting quality particularly wedge cuts forming in sheet metal

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web dec 27 2022 the laser parameters include laser cutting quality wavelength beam polarization power and intensity cutting speed processing gas focal point and material specifications importance of laser cutting parameters