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.
- <u>FRAMEWORK</u> to support the soft tissues of the body.

MAJOR FUNCTIONS:

- 1.) SUPPORT
 - Major supporting tissues of the body
 - Cartilages provides <u>firm yet flexible</u> <u>support</u> (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 Cartiloges covers the ends of bones within some joints; allowing the bones to move freely
- Ligaments <u>allow some movements</u> 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 <u>red bone morrow</u>
 - 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.
- EPIHYSEAL 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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Doug Sowle

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