CHAPTER 6 - SKELETAL SYSTEM

COMPONENTS:

- Bones
- Joints & Associated Cartilages

SPCELLETAL

- 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
- Cartiloges provides firm yet flexible topport (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 allow some movements between bones but prevent excessive movements.

4.) STORAGE

- Colcium & 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)
- Proteoglycons (Polysaccharides)
- Tendons (Collagen Fibers)
- Ligaments (Collogen Fibers)
- Cartilage (Callagen & Proteoglycans)
- Hydraxyapatite (Calcium Phosphate Crystals)

GENERAL FEATURES OF BONE

- 1. LONG BONES
- Longer than they are wide

2. SHORT BONES

- Broad as they are long

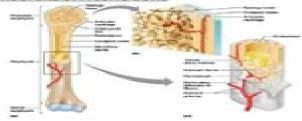
3. FLAT BONES

- Relatively thin, flattened shape

4. IRREGULAR BONES

- Vertebrae & Facial Bones

STRUCTURE OF A LONG BONE



DIAPHYSIS

- Central Shaft
- EPIPHCYSIS

- 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.

MEDUILLARY CAVITY

Large cavity in the diaphysis

MARRIOW

- 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 meduliary cavity

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