

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

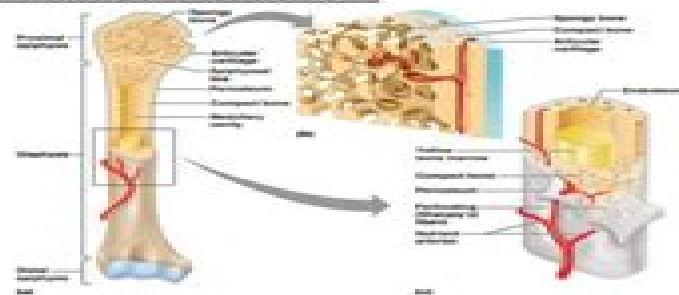
3. FLAT BONES

- 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

Anatomy And Physiology Chapter The Skeletal System Answers

Wendy Hanks



Anatomy And Physiology Chapter The Skeletal System Answers:

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All-in-One For Dummies (+ Chapter Quizzes Online) Erin O'Day, 2023-03-28 The knee bone's connected to the what was it again From complicated Latin names to what can seem like a million and one things to memorize no one's saying anatomy and physiology is easy But with a little help from your friends at Dummies it doesn't have to be impossible Anatomy Physiology All in One For Dummies is your go-to guide for developing a deep understanding of the parts of the human body and how it works You'll learn the body's structures and discover how they function with expert help from the book's easy to use teaching features You can even go online to access interactive chapter quizzes to help you absorb the material With this book you'll get a grip on key concepts and scientific terminology used to describe the human body Discover fun physiology facts you can apply to everyday life both inside and outside the classroom Learn how the body's different systems interact with one another So if you're looking to ace that next test improve your overall grade reduce test anxiety or just increase your confidence in the subject grab a copy of Anatomy Physiology All in One For Dummies It's your one stop comprehensive resource for all things A P **Principles of Anatomy and Physiology** Gerard J. Tortora, Bryan H. Derrickson, 2018-05-15

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