

Chapter 6 Bones and Skeletal Tissue

Lecture # 14, 15, 16

Objectives:

- 1. Compare and contrast the structure of the four bone classes and provide examples of each class.*
- 2. List and describe five important functions of bone.*
- 3. Describe the gross anatomy of a typical long bone and flat bone. Indicate the locations and functions of red and yellow marrow, articular cartilage, periosteum, and endosteum.*
- 4. Describe the histology of compact and spongy bone.*
- 5. Discuss the chemical composition of bone and the relative advantages conferred by its organic and its inorganic components.*
- 6. Compare and contrast the two types of bone formation: intramembranous and endochondral ossification.*
- 7. Describe the process of long bone growth that occurs at the epiphyseal plates.*
- 8. Explain how hormones and physical stress regulate bone remodeling.*
- 9. Name the types of fractures.*
- 10. Contrast the disorders of bone remodeling seen in osteoporosis, osteomalacia, and Paget's disease.*

Classification of Long Bones: 206 bones in adult skeleton; > 300 in infants

- I. Long: longer than wide; femur
- II. Short: squarish; carpals, patella
- III. Flat: skull (parietal, frontal), sternum
- IV. Irregular: vertebrae, facial

Functions of Bones

- I. Support: helps us be upright, provides attachment points for organs
- II. Protection: brain, spinal cord, lungs, heart surrounded by bone
- III. Movement: act as levers for muscles to pull.
- IV. Mineral storage: calcium and phosphate used for other reactions stored in matrix.
- V. Blood cell formation: hematopoietic tissue in red bone marrow cavities forms blood.

Structure of a long bone

- I. Diaphysis: shaft; hollow, medullary cavity filled with yellow marrow of fat (that can convert to red if needed). Made of compact bone with nutrient foramina to allow blood vessel entry into bone.

Bones And Skeletal Tissues Study Guide Answers

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