

## Skeletal System

Bones, cartilage and ligaments are tightly joined to form a strong, flexible framework.

Bone is active tissue:  
-5-17% bone mass/week

**Functions of Skeletal System:**

- 1. Support**  
strong and relatively light (20% body weight)
- 2. Movement**  
provides an anchor for muscles and all levers and joints
- 3. Protection**  
brain, lungs, heart, reproductive system
- 4. Mineral storage/Calcioleolytic balance**  
99% of body's calcium is in bone tissue  
(2000 mg/day in diet, 1000 mg excreted)  
also stores phosphate
- 5. Hemopoiesis**  
blood cell formation
- 6. Detoxification**  
bone tissue releases heavy metals and other foreign materials  
(lead, strontium)  
can also release these materials more slowly for excretion  
but this can also have been carcinogenic

Microscopic Structure: Bone Tissue (see slide 10-11)

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## Skeletal Anatomy

each individual bone is a separate organ of the skeletal system

-270 bones (organs) of the Skeletal System

with age the number decreases as bones fuse

by adulthood the number is 206 bones

even this number varies due to varying numbers of minor bones:

**sesamoid bones** - small rounded bones that form along surfaces of tendons or ligaments

eg. thumb (patella), in knuckle

**vertebrae bones** - bones that form within the sutures of skull

each skeletal organ is composed of many kinds of tissues:

Bone (osseous tissue)  
Cartilage  
Articular connective tissue  
Blood (in blood vessels)  
Nervous tissue

**General Shapes of Bones**

Microscopic Structure: Bone Tissue (see slide 10-11)

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Bones can be categorized according to their general shape:

- 1. Long:** cylindrical, longer than wide  
rigid levers for muscle actions, eg crowbars  
eg. arms, legs, fingers, toe
- 2. Short:** length nearly equal width  
limited motion, gliding if any  
eg. vertebrae, carpal, tarsal
- 3. Flat:** thin sheets of bone tissue  
enclose and protect organs  
broad surfaces for muscle attachments  
eg. scapula, ribs, most skull bones, sternum, hy bone
- 4. Irregular:** elaborate shapes differing from above  
eg. vertebrae, sesamoid, ethmoid

**Bone Structure**

Bones have outer shell of **compact bone**

usually encloses more loosely organized bone tissue  
= **spongy (= cancellous) bone**

Microscopic Structure: Bone Tissue (see slide 10-11)

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the general structure of a typical longbone:



**epiphyses**

large surface area for muscle attachments and joint

**spongy bone with trabeculae**

contains **red marrow** (intertrabecular tissue)

→ produces blood cells in delicate mesh of vascular spaces

→ adults red marrow is limited to vertebrae, sternum, ribs, pelvis and proximal ends of humerus and femur

with age, red marrow is replaced by yellow marrow

**articular cartilage**

on surface of epiphyses

Microscopic Structure: Bone Tissue (see slide 10-11)

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# Iaodapca Study Guide

**Susan L. Rozzi, Doug Kleiner, Michele  
G. Futrell**

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