

# SKELETAL SYSTEM: BONES & JOINTS

## BONES

AXIAL  
APPENDICULAR  
SPONGY BONE  
COMPACT BONE

LIGAMENTS  
TENDONS

## FUNCTION OF BONES(5)

## TYPES OF BONES (4)

LONG BONE  
FLAT BONE  
IRREGULAR BONE  
SHORT BONE

## JOINTS = ARTICULATIONS

SYNDYAL joints  
HINGE JOINT  
BALL & SOCKET  
GLIDING / PLANE  
CONDYLOID  
PIVOT

## JOINT MOVEMENT

FLEXION  
EXTENSION  
ADDUCTION  
ABDUCTION  
ROTATION  
ELEVATION  
DEPRESSION  
SUPINATION  
PRONATION  
INVERSION  
EVERSION  
DORSIFLEXION  
PLANTAR FLEXION  
CIRCUMDUCTION

206 BONES

### AXIAL

- SKULL
- Rib pair 1-12
- VERTEBRAL COLUMN

→ Cervical, Thoracic, Lumbar, Sacral, Coccygeal vertebrae

### APPENDICULAR

- UPPER & LOWER EXTREMITIES
- Shoulder girdle
- Upper limb
- Lower limb
- Hand
- Foot
- Phalanges

- CONNECTS BONE TO BONE
- ATTACH MUSCLE TO BONE

## FUNCTION OF BONES

- FORM & STRUCTURE
- PROTECTION & SUPPORT
- LEVERS FOR MOVEMENT
- HEMOPOLYSIS
- STORE MINERALS (CALCIUM & PHOSPHORUS) & ENERGY RESERVES

**DYNAMIC!**

- Longer than width (FEMUR, HUMERUS, RADIUS, ULNA, TIBIA, FIBULA)
- "FLAT" (SCAPULA, CLAVICLE, CRURIA, RIBS)
- "IRREGULARLY" shaped (CLAVICLE & COMPLEX SHAPES (VERTEBRAL, COCCYGEAL, ILIAC))
- about as long as they are wide (CARPALS, METACARPALS, PATELLA)
- **carpaloid** (small, irregularly shaped) **PATELLA** (kneecap)
- they grow, sand in tendon of some muscles

→ PLACE OF CONTACT BETWEEN BONES

→ **PHANTOMIES** - partly movable

### HINGE joint

(uniaxial)

- elbow
- knee



### BALL-and-SOCKET

(multiaxial)

- hip joint
- shoulder joint

→ 3 planes



### PLANE / GUIDING

(multiaxial)

- carpal bones
- metatarsal bones

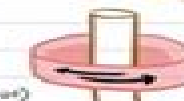
→ 3 planes



### CONDYLOID

(biaxial)

- scapulothoracic and acromioclavicular joints



### PIVOT

(uniaxial)

- around the longitudinal axis
- condylar head

→ 1 plane



### SADDLE joint

(biaxial)

- ONLY true saddle joint is the CARPOMETACARPAL joint (thumb)



**SUMMARY:** Bones of the skeletal system are not only for form and structure but also have functions that make them DYNAMIC. The types and classification of bones are essential to identify and understand its connections to joints, and movements. # **SHAPE** determines **FUNCTION**.

# Anatomy Study Guide Bones

**Jessica J Manson**



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In a digitally-driven earth where monitors reign great and quick conversation drowns out the subtleties of language, the profound secrets and psychological nuances hidden within phrases often get unheard. Yet, nestled within the pages of **Anatomy Study Guide Bones** a charming literary value pulsing with organic feelings, lies a fantastic quest waiting to be undertaken. Penned by a talented wordsmith, that charming opus attracts visitors on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within the fabric of every word. Within the mental depths of the touching evaluation, we shall embark upon a heartfelt exploration of the book's core themes, dissect their interesting writing style, and fail to the strong resonance it evokes deep within the recesses of readers' hearts.

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