

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

→ CONNEXES 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" (PARIETALS, OCCIPITAL, PTERION, RIBS)
- "IRREGULARLY" shaped (CLAVICLE & COMPLEX SHAPES (VERTEBRAL, COXA, PELVIS))
- about as long as they are wide (CARPALS, METACARPALS, PATELLA)
- **irregular** (MANDIBLE, MANDIBULAR) "mandible" (under)

→ PLACE OF CONTACT BETWEEN BONES

→ **PHANTOMIES** - partly movable

HINGE joint

- elbow
- knee

BALL-and-SOCKET

- hip joint
- shoulder joint
- 3 planes

PLANE / GLIDING

- carpal bones
- metacarpal bones
- phalanges

PIVOT

- atlanto-axial joint
- transverse ligament
- rotating "spine"

SADDLE joint

- ONLY true saddle joint is CARPOMETACARPAL joint (thumb)



CONDYLOID (bicondylar)
- forearm bones and wrist bones
- carpal, radius and ulna



PIVOT (unilateral)
- around the longitudinal axis
- carpal bones



SADDLE joint (bicondylar)
- ONLY true saddle joint is CARPOMETACARPAL joint (thumb)



FLEXION
EXTENSION



ADDUCTION
ABDUCTION



SUPINATION
PRONATION



INVERSION
EVERSION



PLANTAR FLEXION
DORSIFLEXION



CIRCUMDUCTION



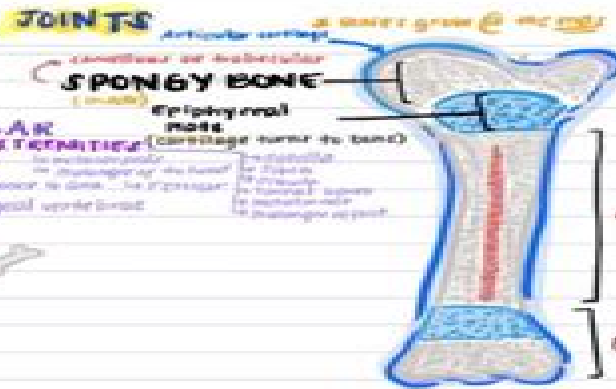
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CIRCUMDUCTION



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 And Physiology Study Guide Bones

Arturo Cuomo



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Study Guide for Dental Technician 3 United States. Navy Department. Bureau of Medicine and Surgery, United States. Bureau of Naval Personnel, 1951

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