

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

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" (PARIETALS, OCCIPITAL, PTERION, RIBS)
- "IRREGULARLY" shaped (CLAVICLE & COMPLEX SHAPES (VERTEBRAL, COCCYX, COCCYX))
- about as long as they are wide (CARPALS, METACARPALS, METALLA)
- irregular (METALLA "metacarpal")
- they grow, send in tendrils of new matter

PLACE OF CONTACT BETWEEN BONES

PHYSECTOMY - partly movable

HINGE joint

- elbow
- knee

BALL-and-SOCKET

- hip joint
- shoulder joint
- 3 planes

PLANE / GLIDING

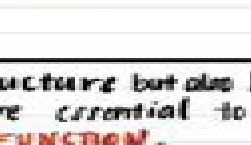
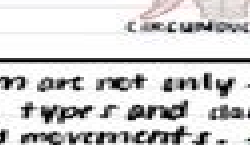
- carpal bones
- metacarpal bones
- metatarsal bones
- metatarsal bones

PIVOT (rotation)

- around the longitudinal axis
- condylar head
- flexing your head "no"

SADDLE joint

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



FOR FEET

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

Joacim Rocklöv



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Anatomy and Physiology Study Guide Patrick Leonardi, 2002-02-01 This test preparation study guide is the best in the industry It is designed for students of college anatomy and physiology It is very thorough specific and complete for each topic

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Study Guide to Accompany Anatomy and Physiology Kalyani Premkumar, 2011-03-16 The 3rd edition of Anatomy and Physiology ties anatomy and physiology to situations massage therapy students will face in practice and makes this material accessible to facilitate learning This accompanying study guide helps students apply their knowledge and ensure their understanding of the content covered

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A Reading Guide for the Ship's Medicine Chest and First Aid at Sea United States Maritime Service, Sebastian Frank Casalaina, Carl Michel, 1941

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