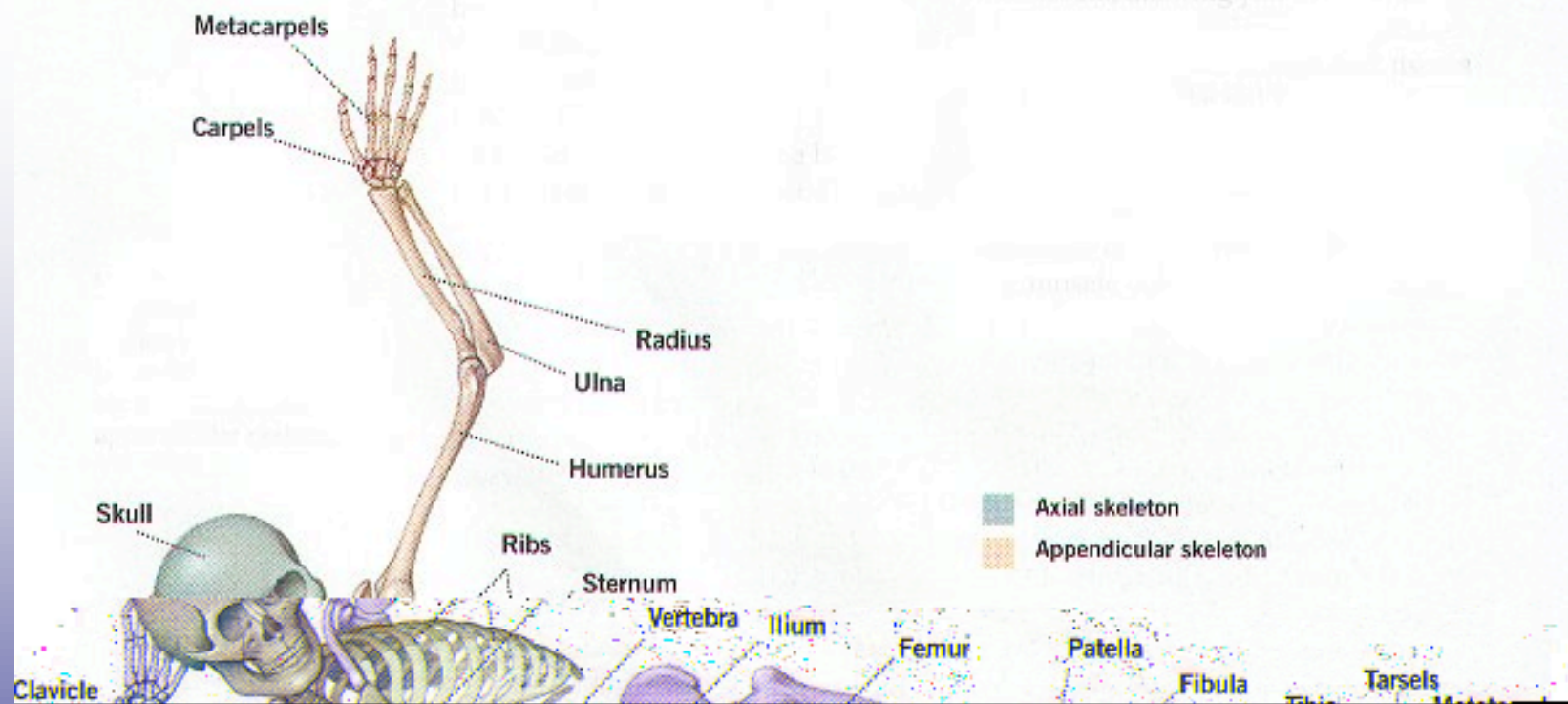


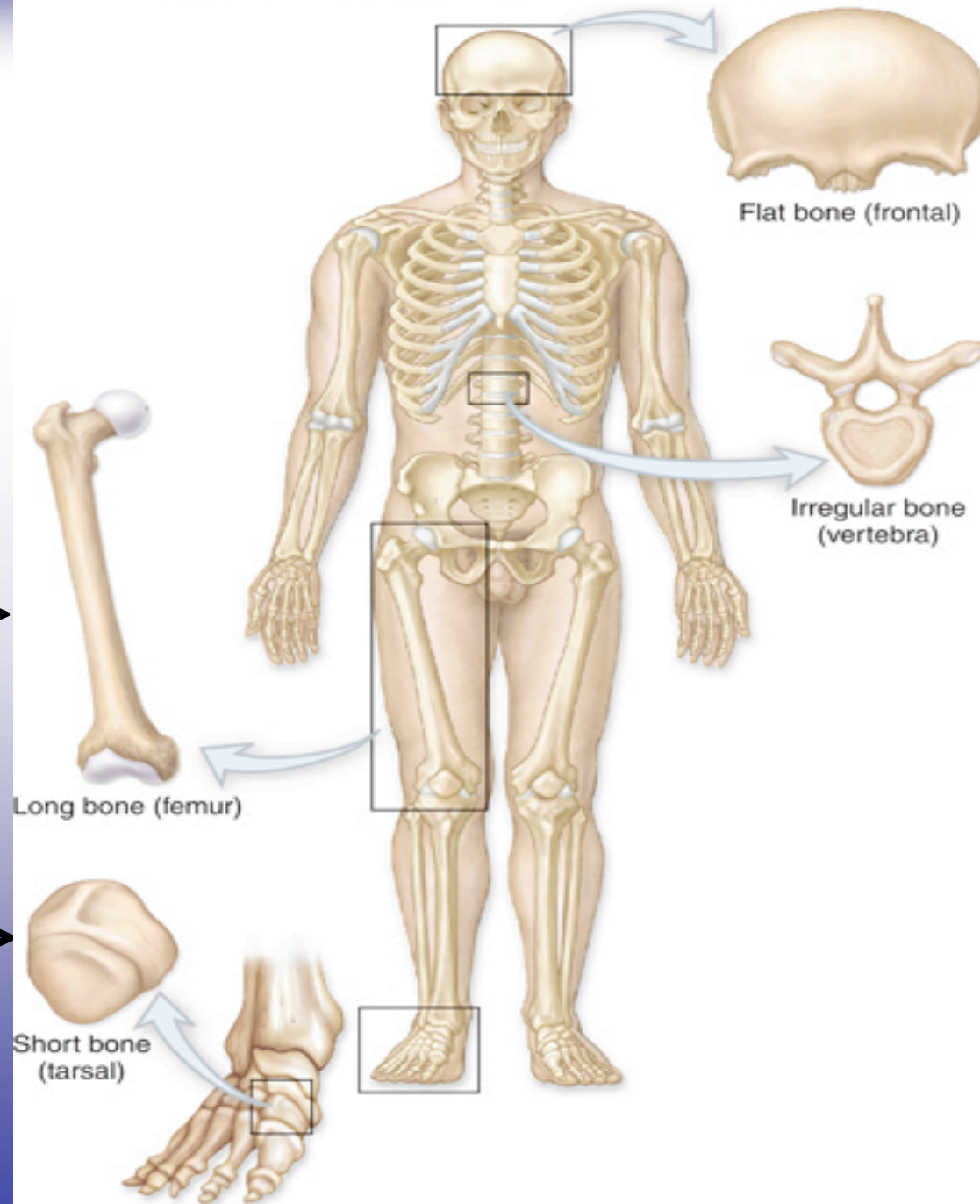
SKELETAL SYSTEM



TYPES OF BONES



- *FLAT*- shoulder
- *IRREGULAR*- ear
- *SHORT*- wrist
- *LONG*- arms



<Flat

<Irreg.

• Long>

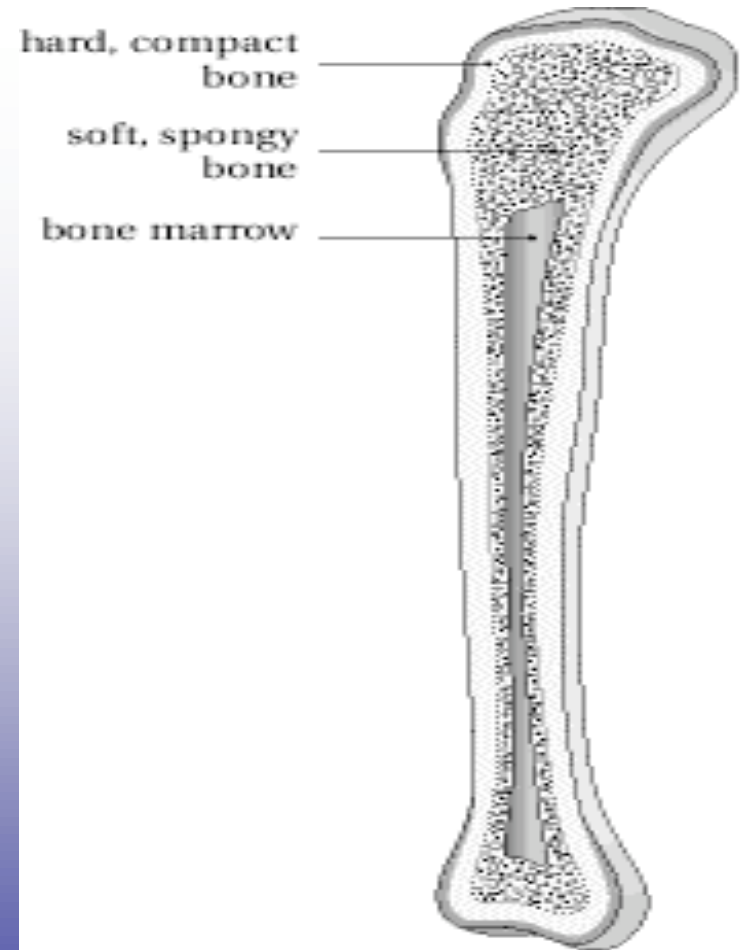
• Short>

MAKEUP of BONE

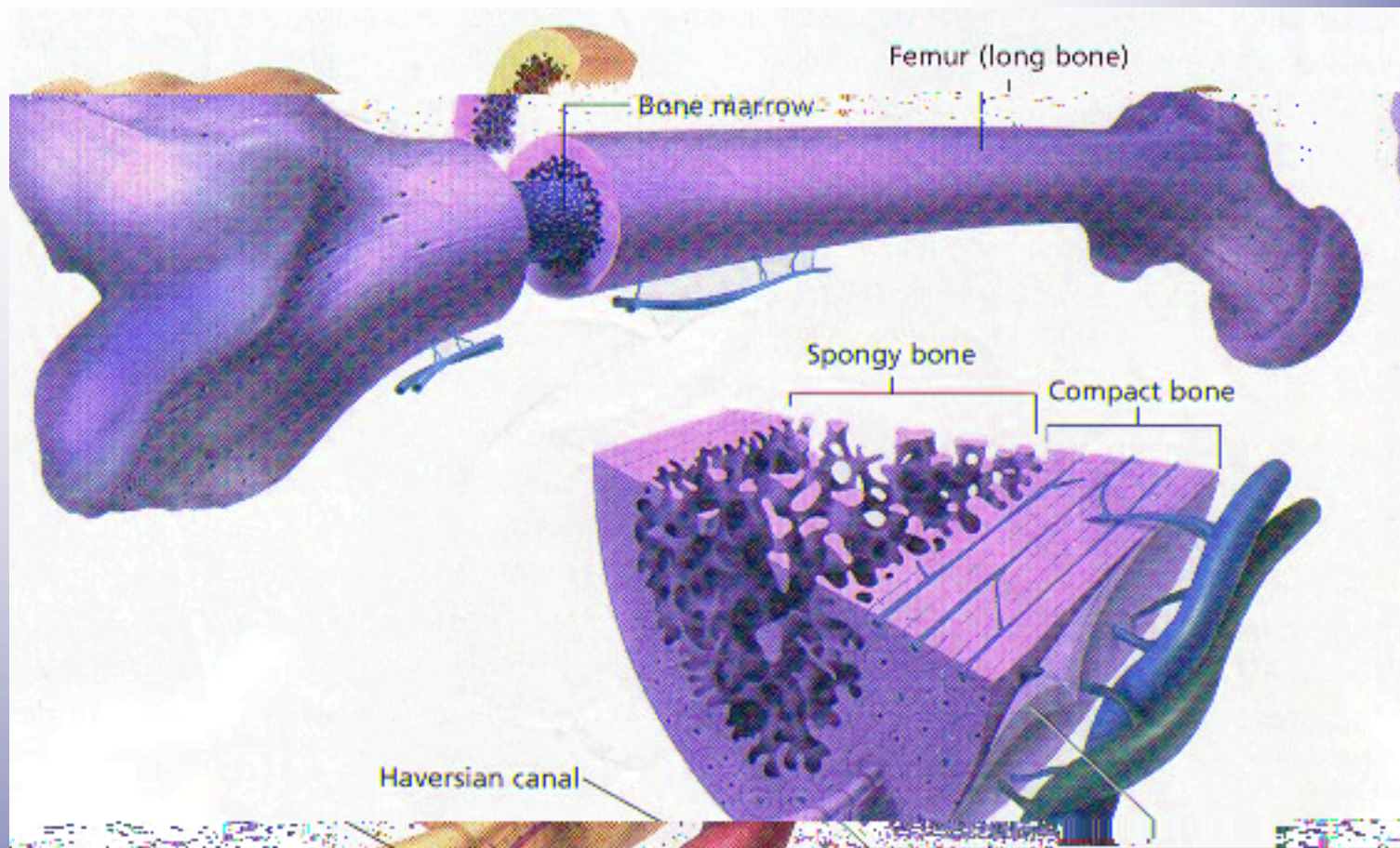
- **SPONGYBONE**- lightweight with holes for vessels.
- **COMPACT BONE**- hard outer surface.
- **PERIOSTEUM**- thin protection, saran wrap.
- **MARROW**- soft middle, red:makes blood cells.

MAKE-UP OF BONE

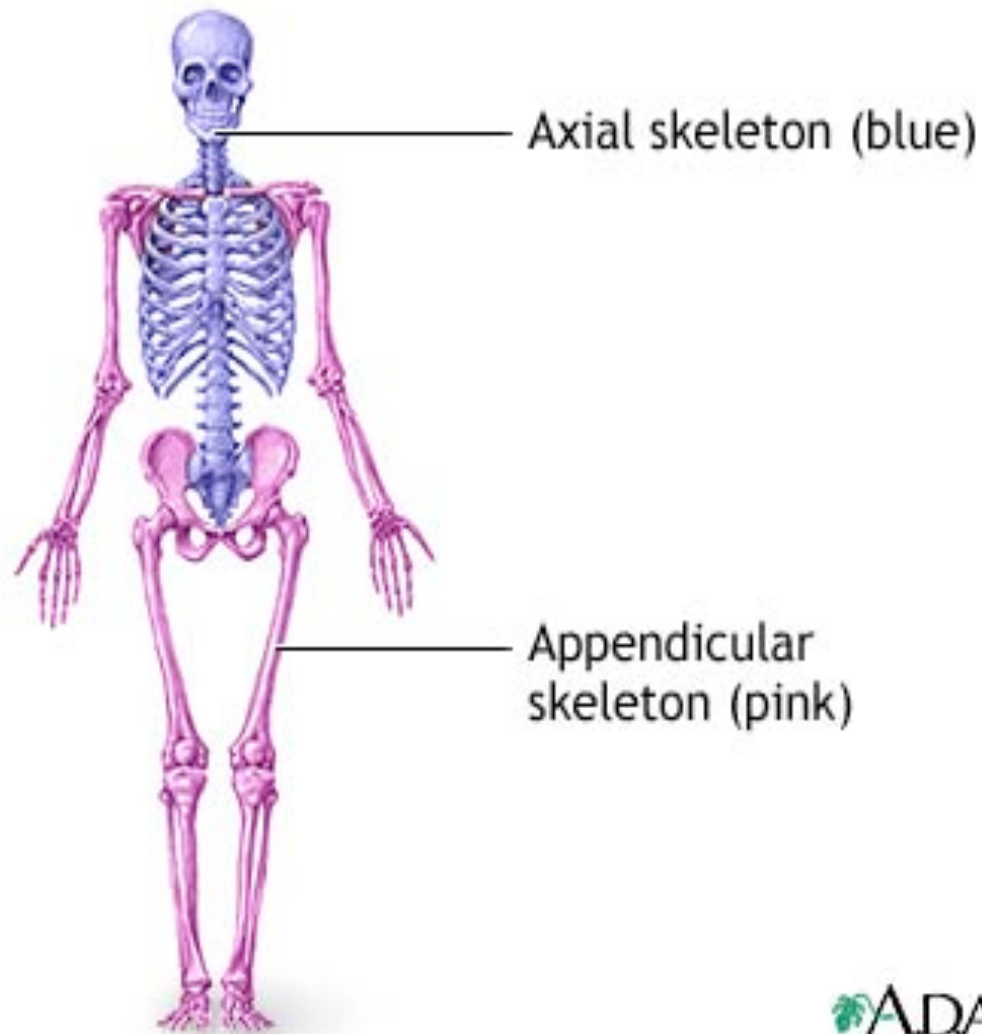
- COMPACT BONE
- SPONGY BONE
- MARROW
- PERIOSTEUM



The structure of bone



Two parts make One



AXIAL

Skull

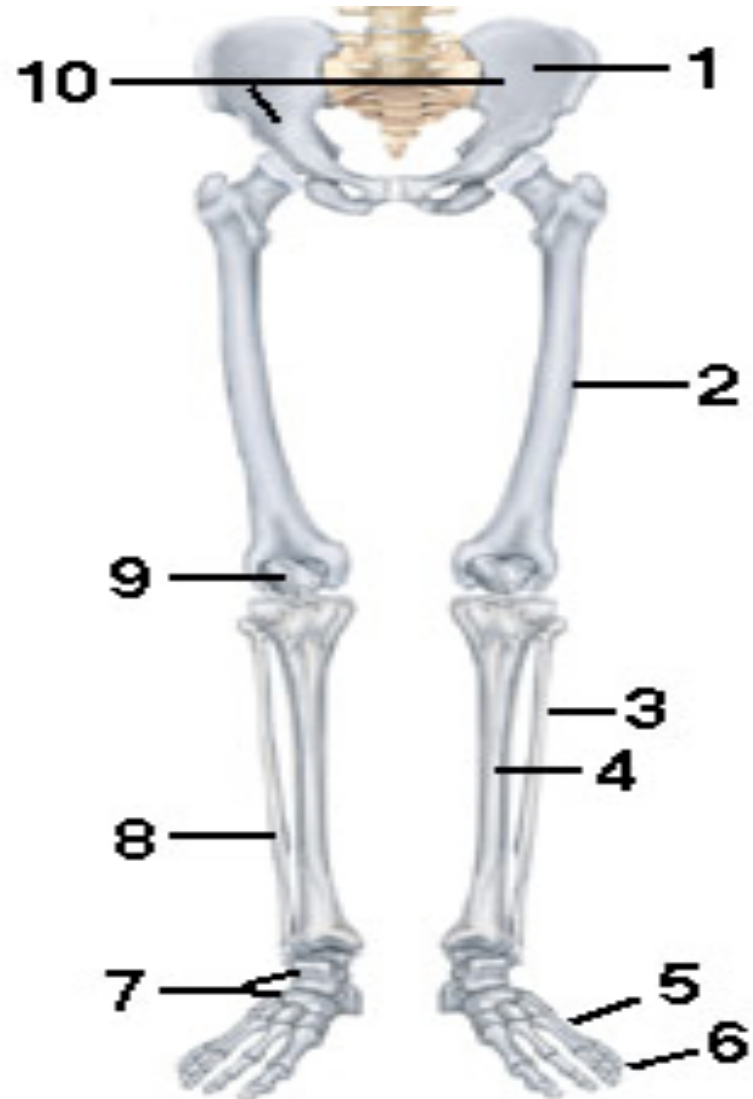
Spine

Ribs



APPENDICULAR

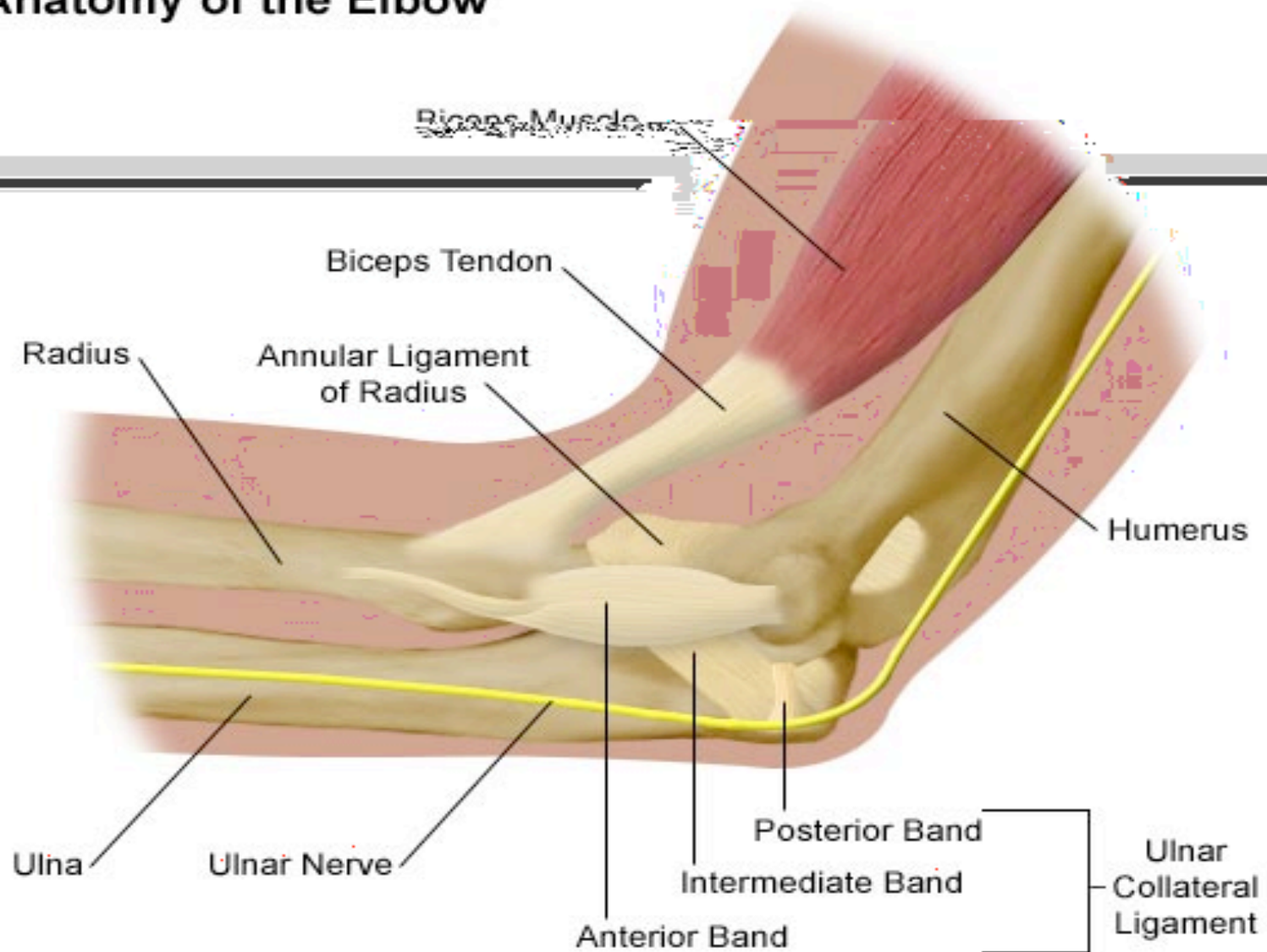
- PELVIS
- SHOULDER
- APPENDAGES
 - ARMS
 - LEGS





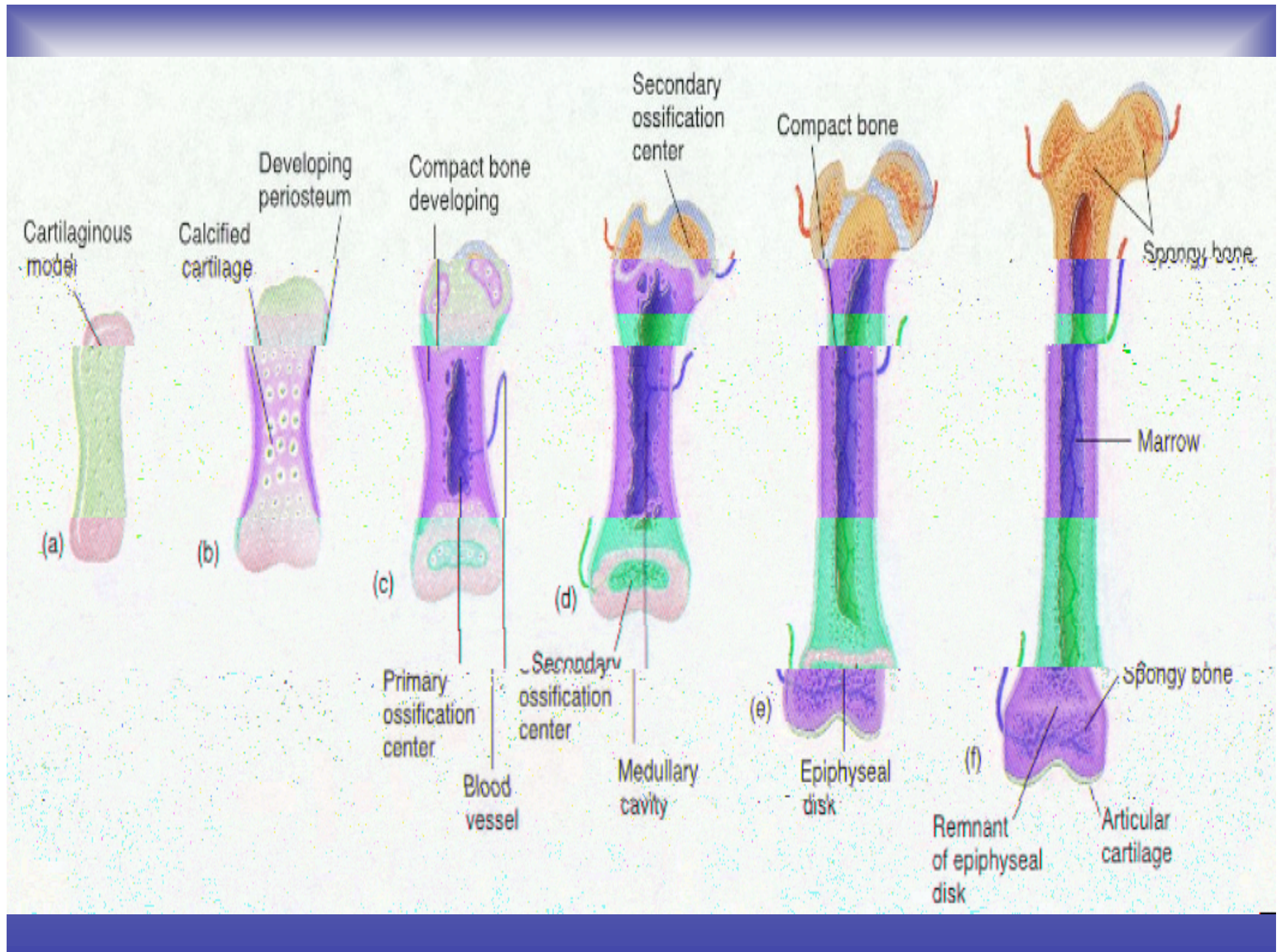


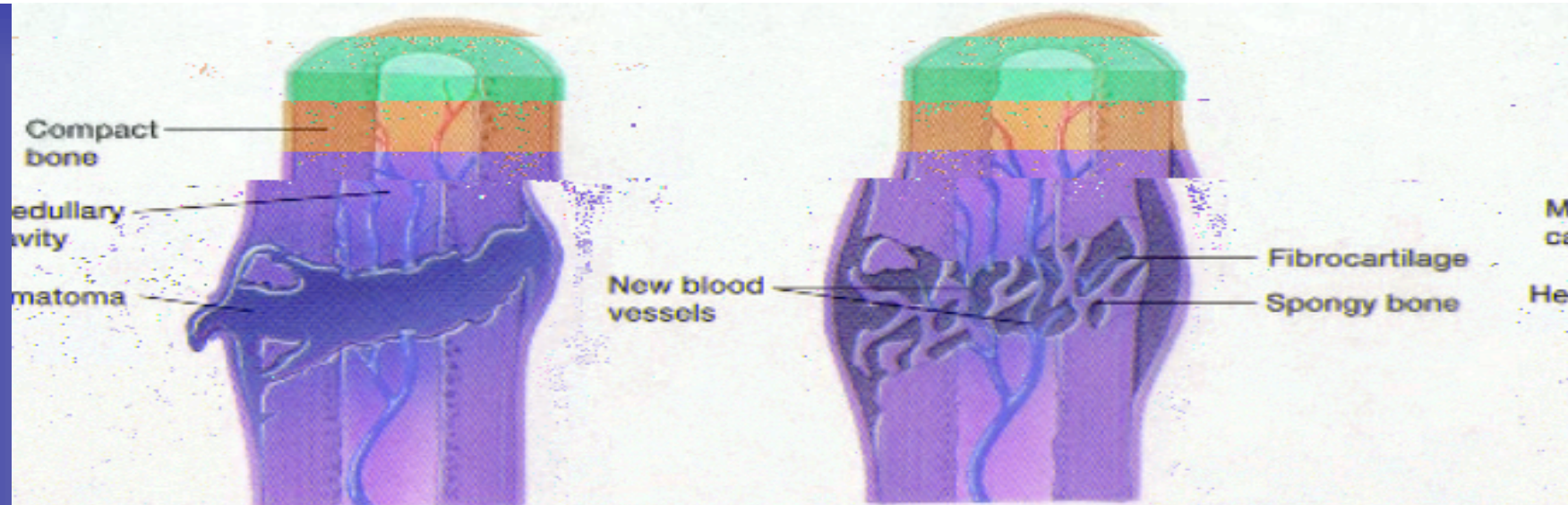
Anatomy of the Elbow



FUNCTIONS

- **STRUCTURE / FRAMEWORK**
- **PROTECTION**
- **MAKE BLOOD CELLS**
- **ATTACHMENT OF MUSCLE**
- **STORAGE OF MINERALS**





(a) Blood escapes from ruptured blood vessels and forms a hematoma.

(b) Spongy bone forms in regions close to developing blood vessels, and fibrocartilage forms in more distant regions.

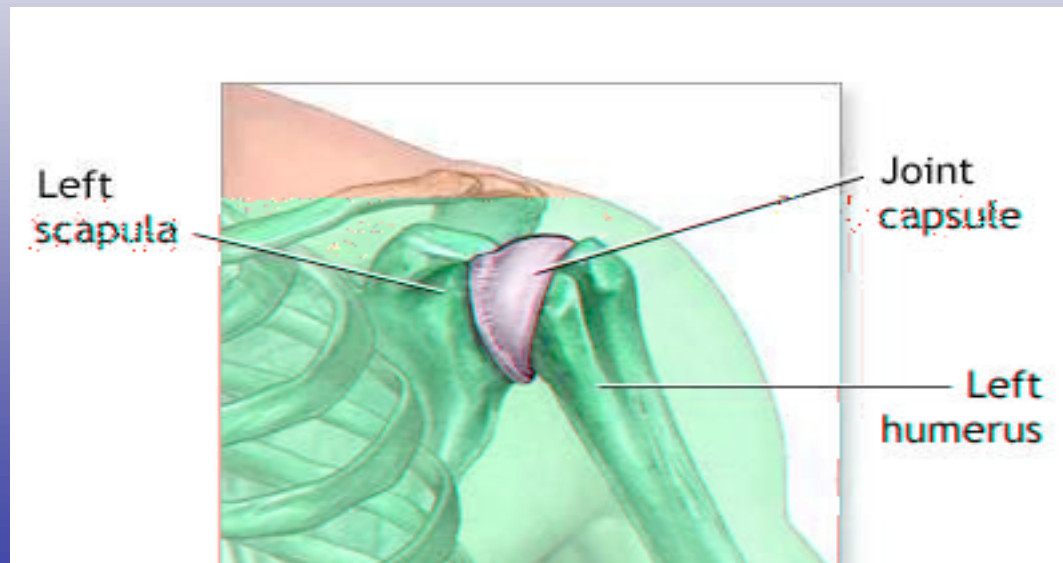


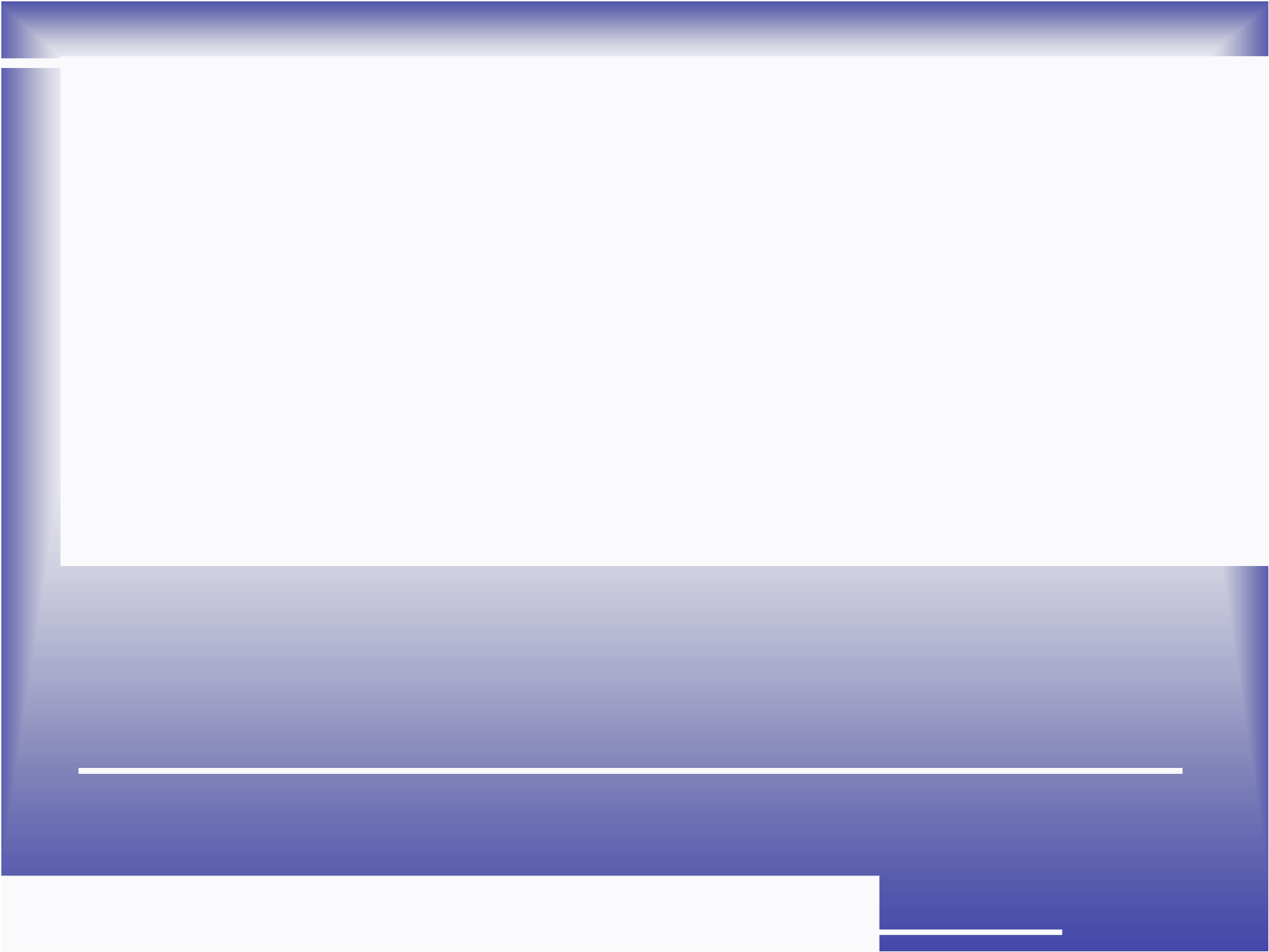
(c) A bony callus replaces fibrocartilage.

(d) Osteoclasts remove excess bony tissue, restoring new bone structure much like the original.

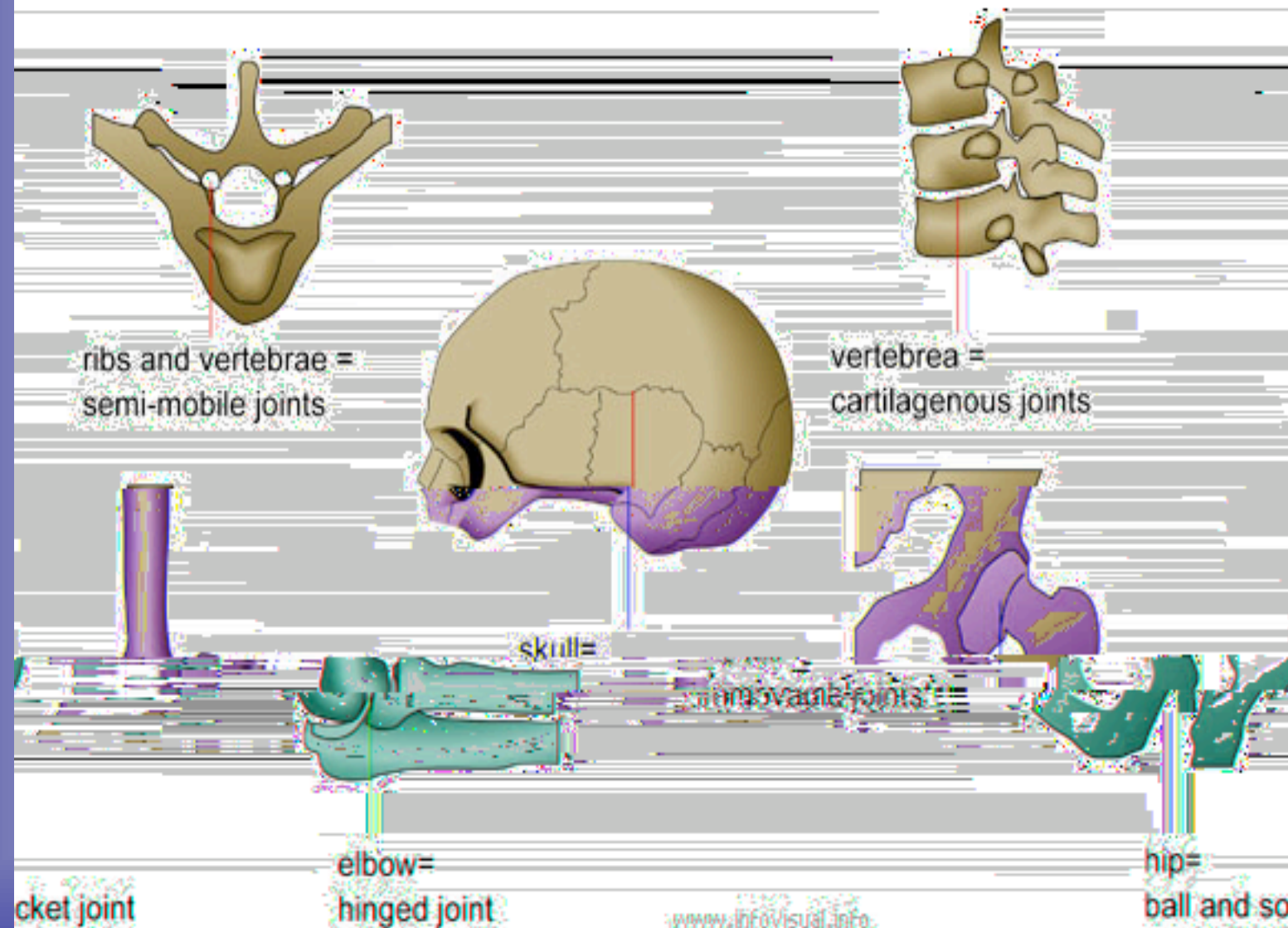
JOINTS

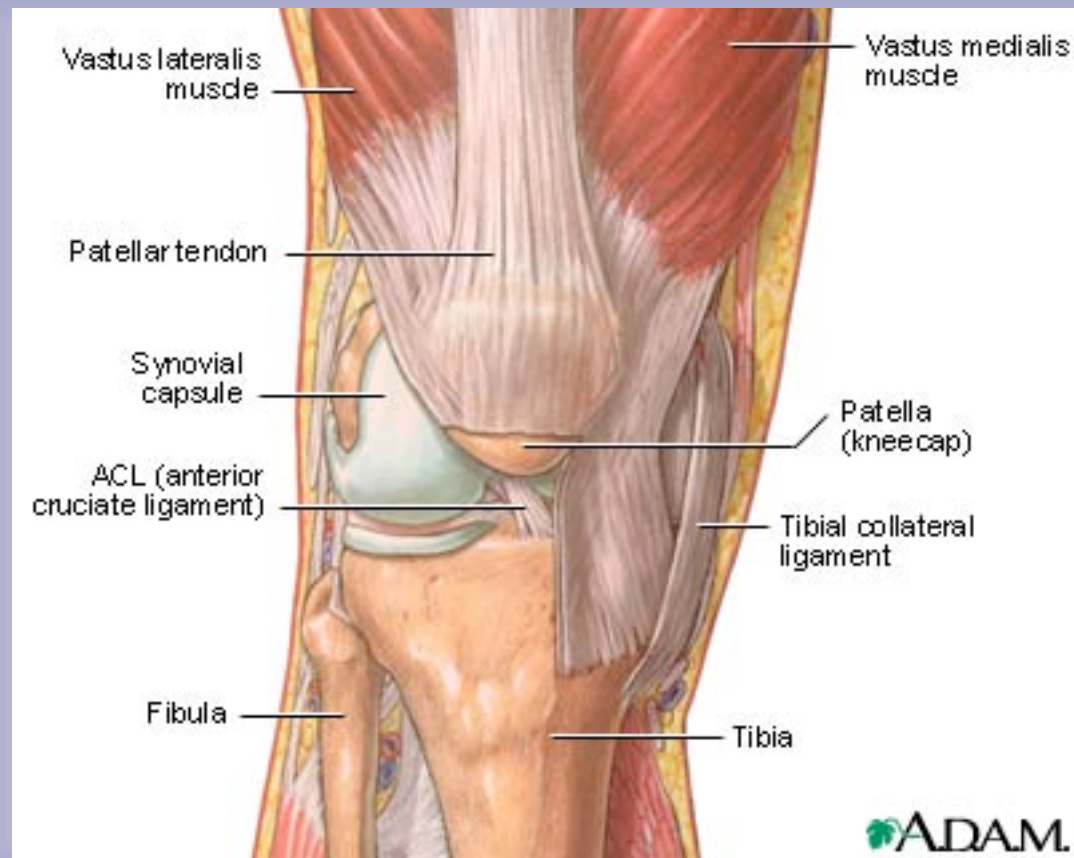
- Area where two or more bones come together.
- Connected by **LIGAMENTS**



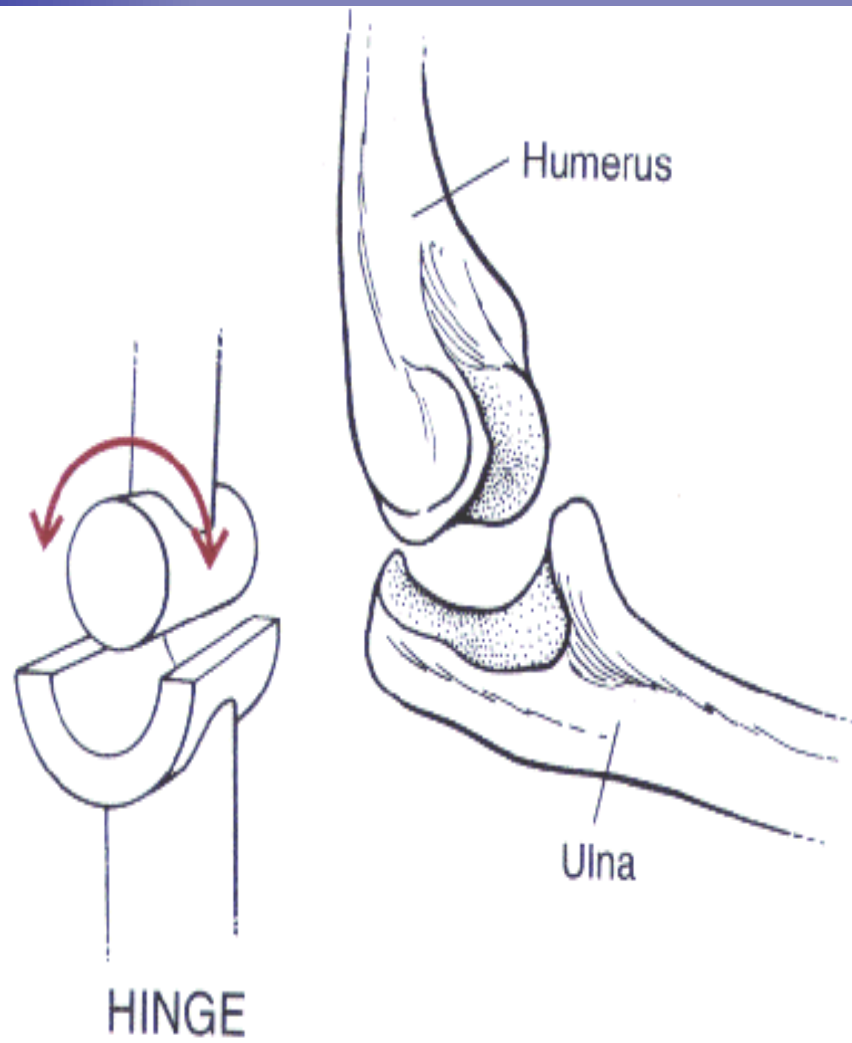


TYPES OF JOINTS FOUND IN THE HUMAN BODY

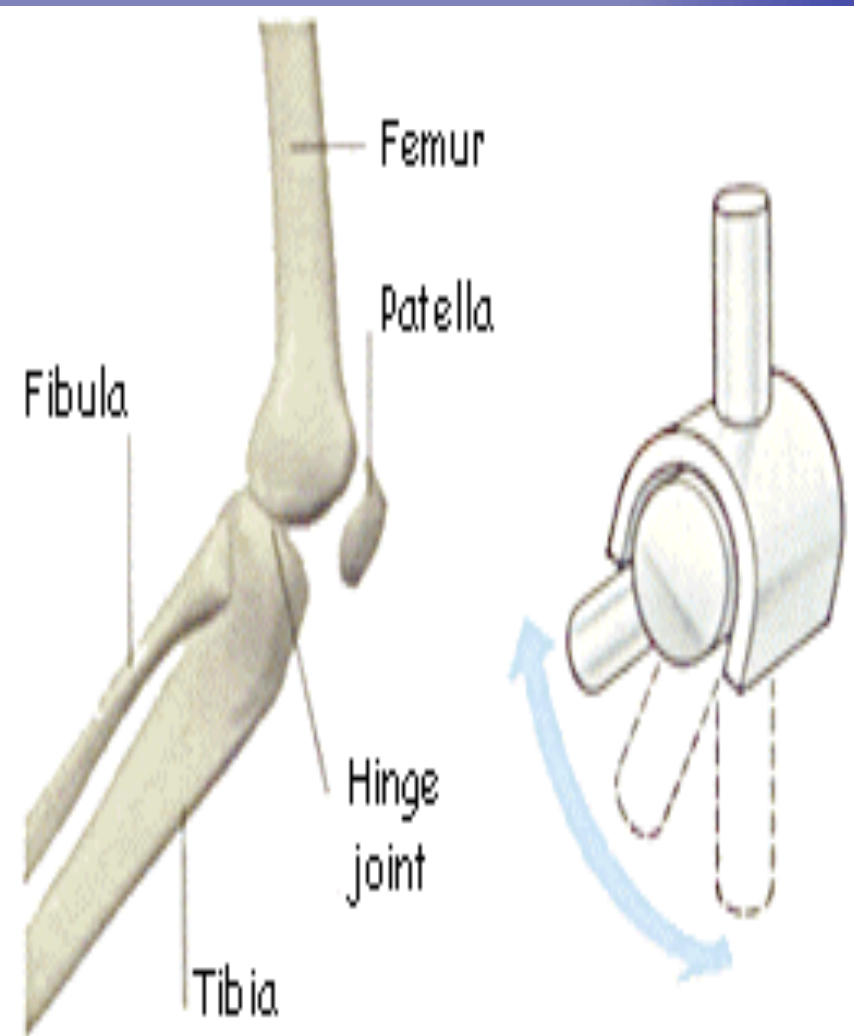






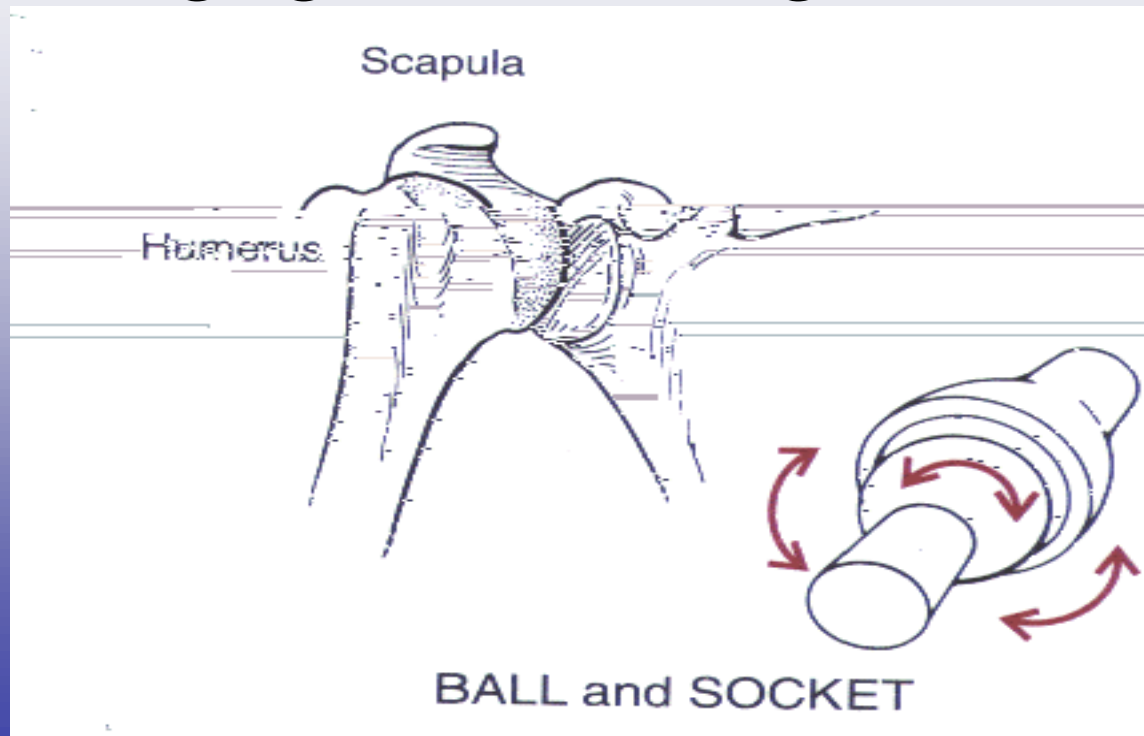


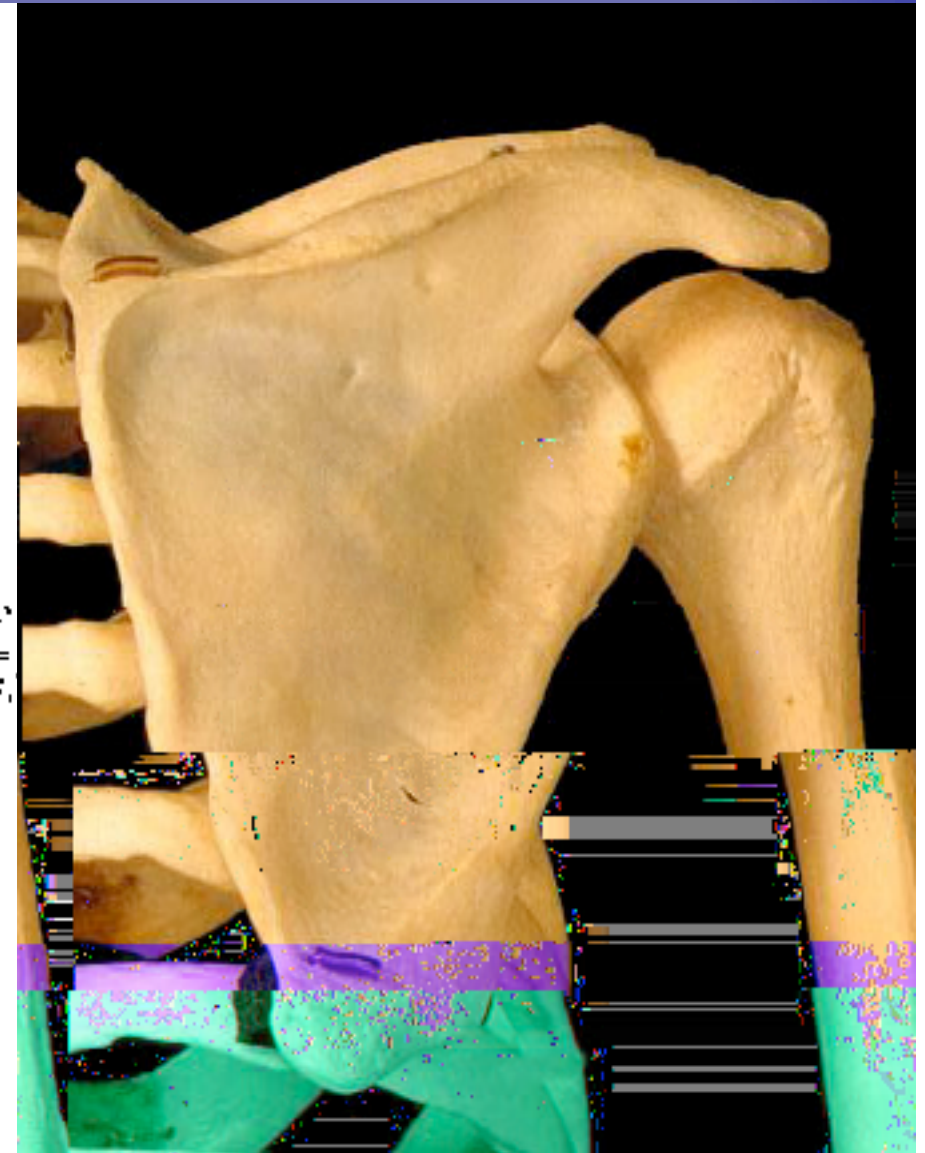
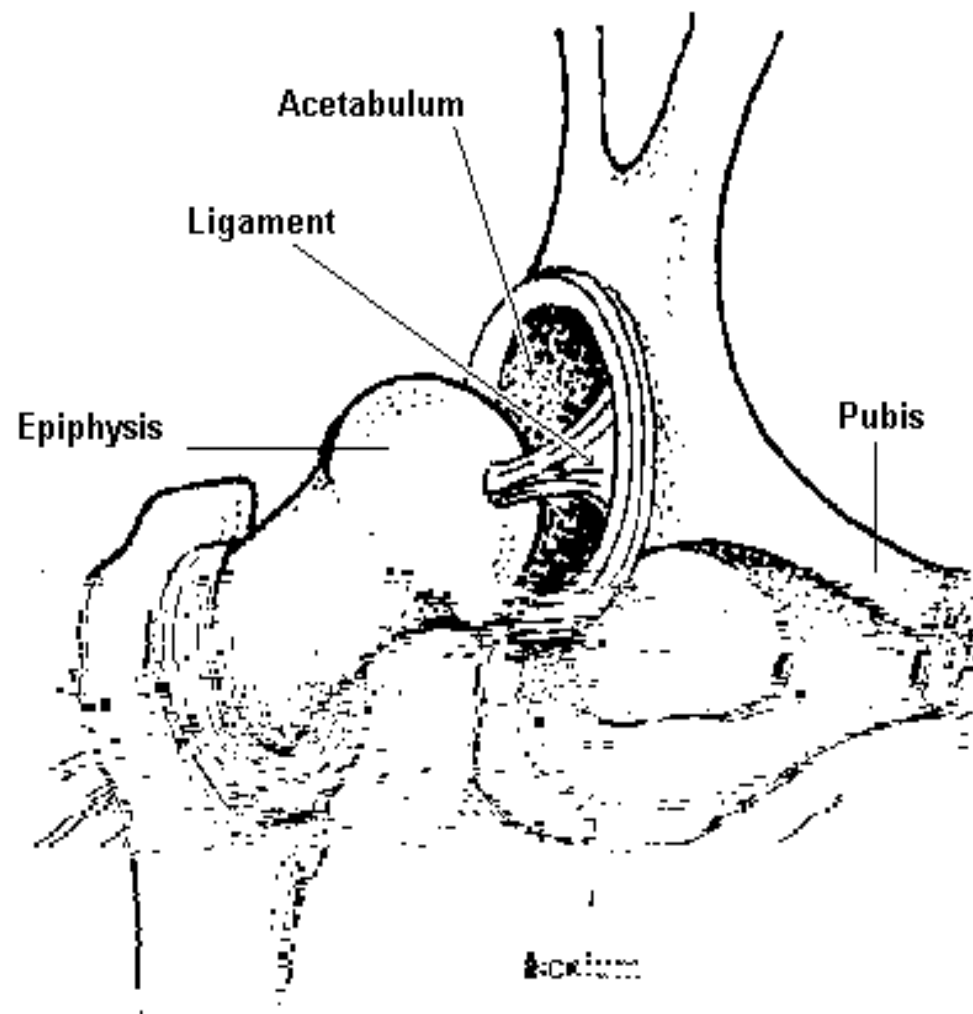
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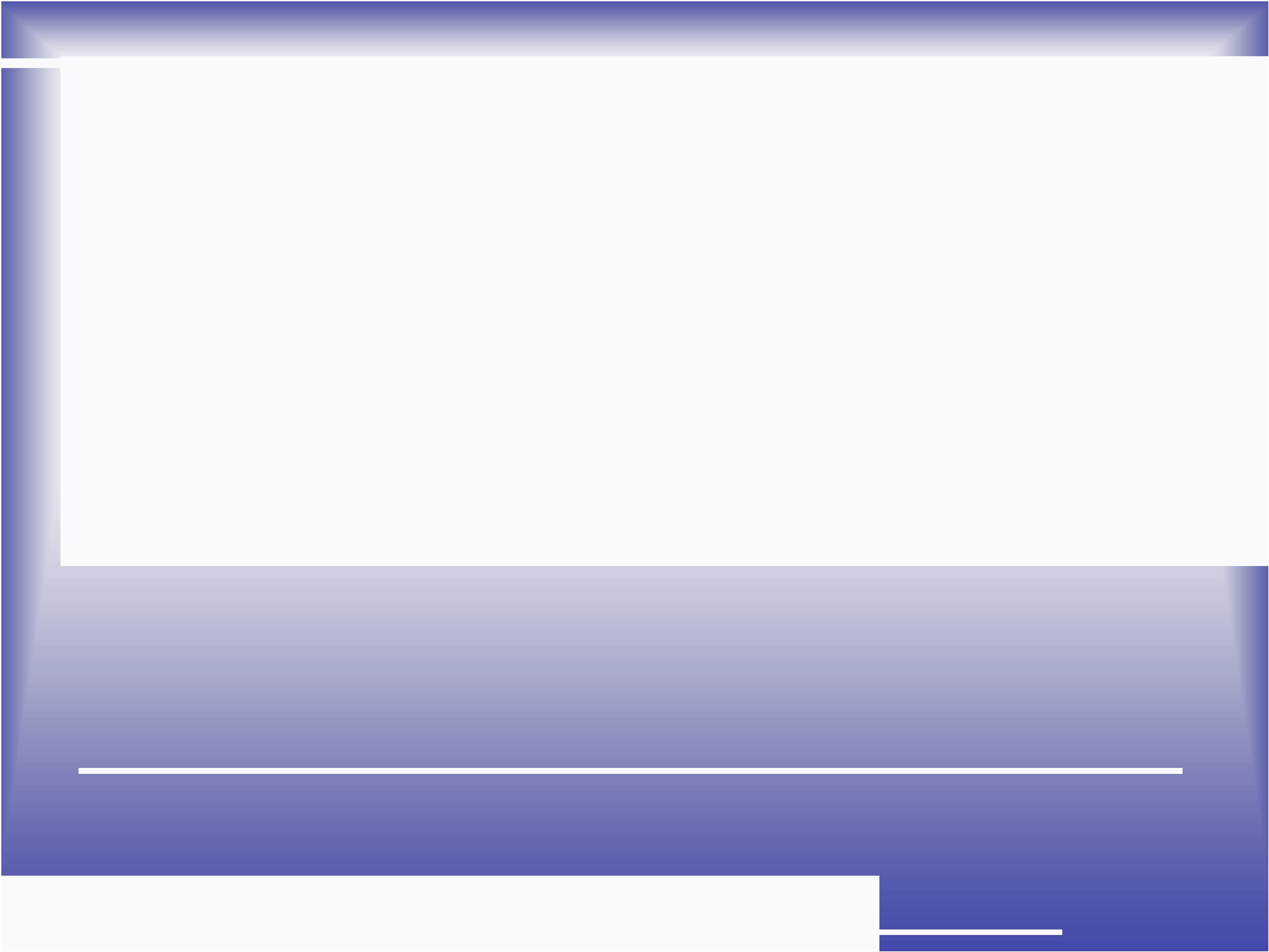


BALL & SOCKET JOINT

- SHOULDER & HIP // ie: joystick
- Rotating, greatest range of motion

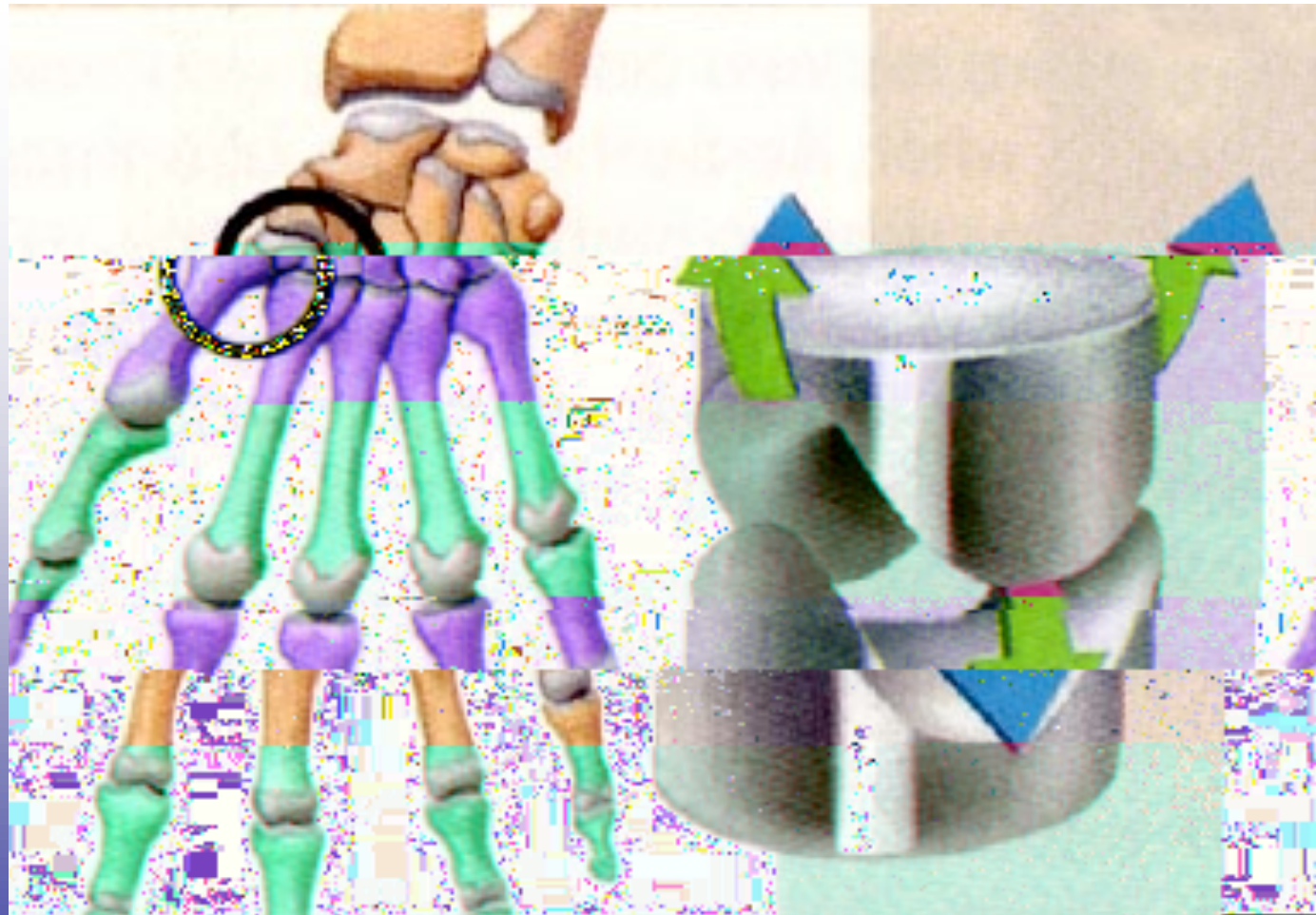






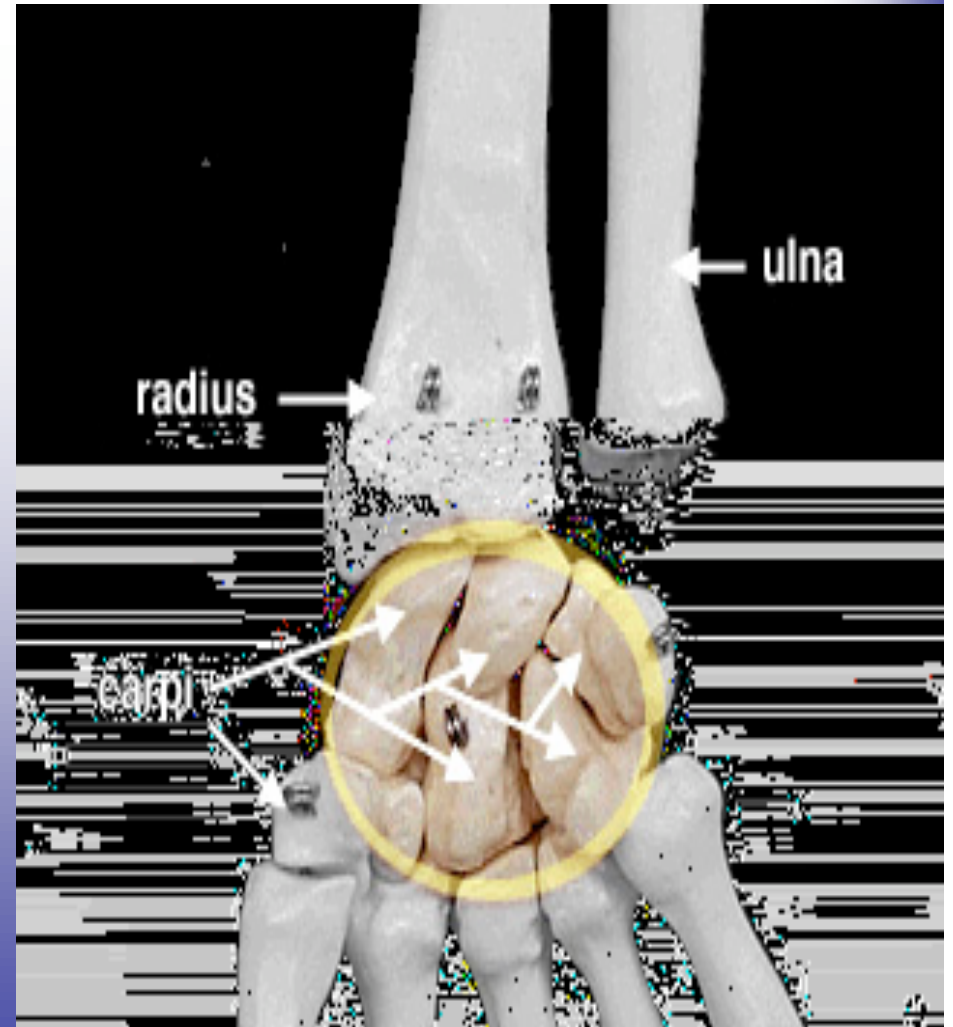
SADDLE

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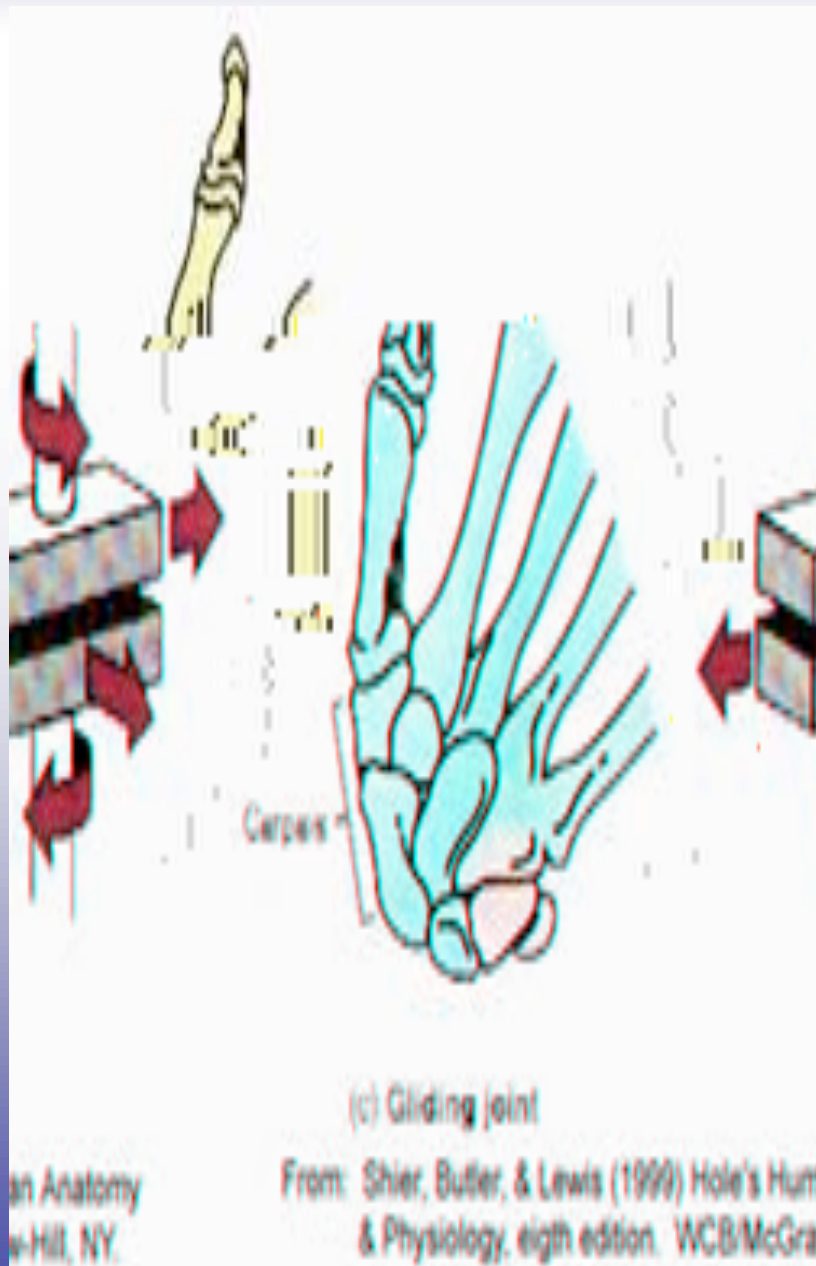


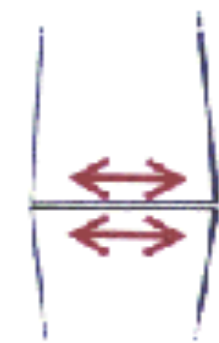
GLIDING JOINT

- VERTEBRAE
- HAND
- ROTATE OVER

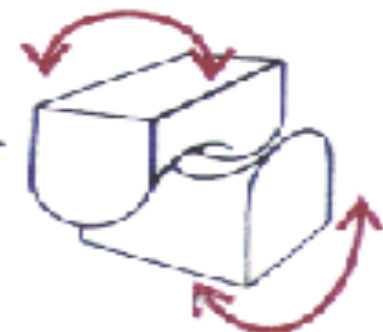
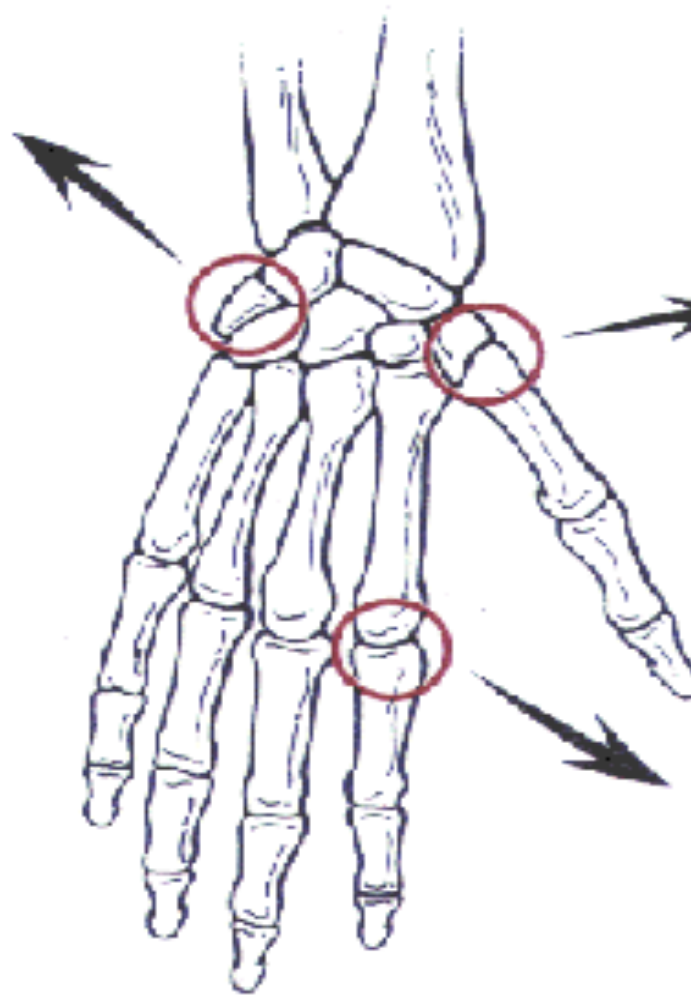


GLIDING

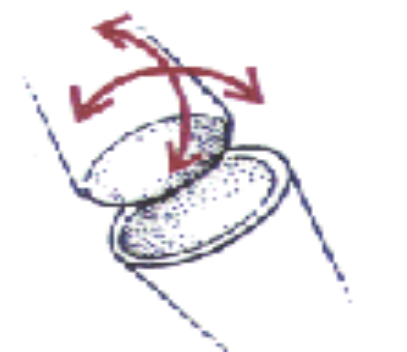




PLANE

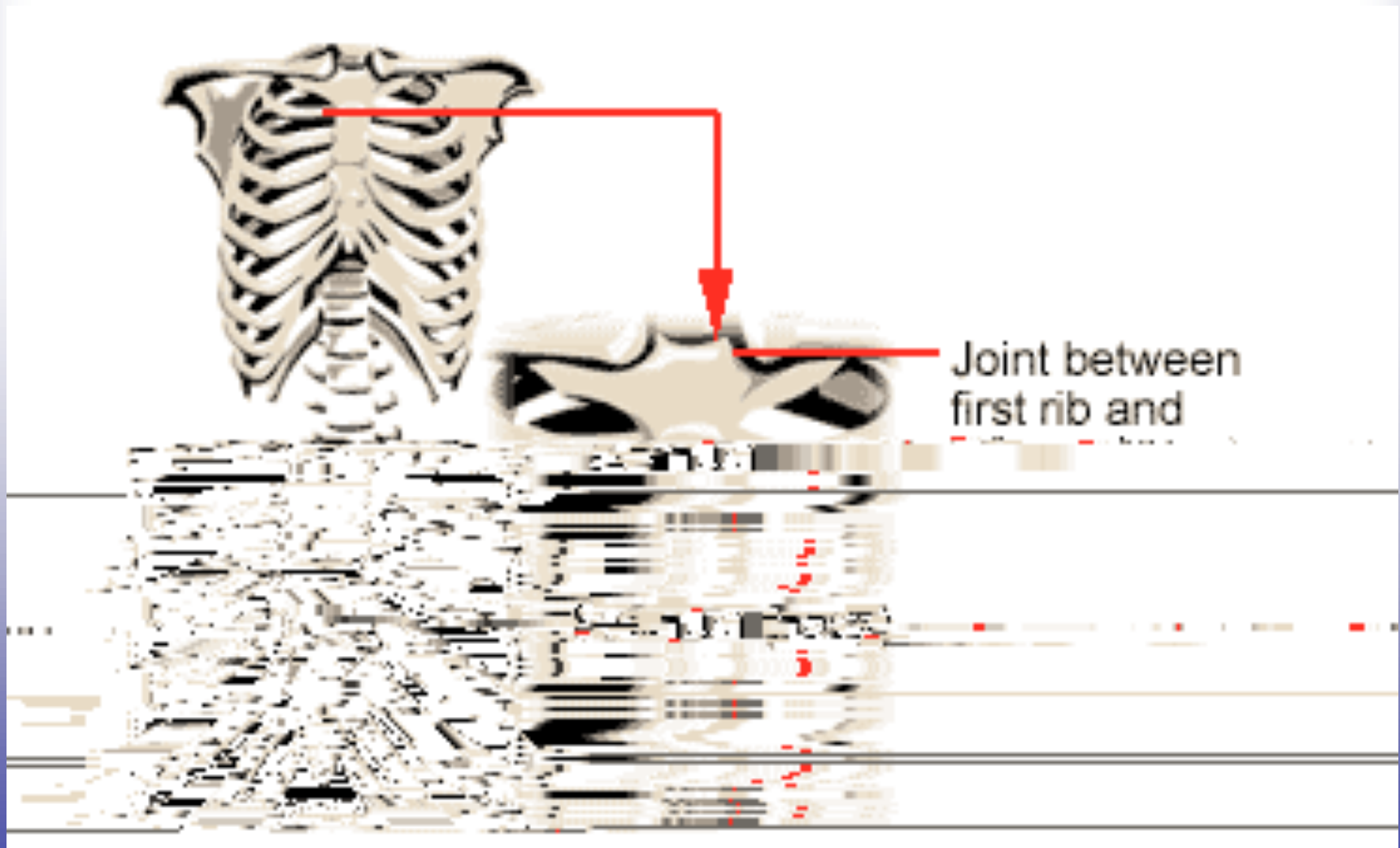


SADDLE

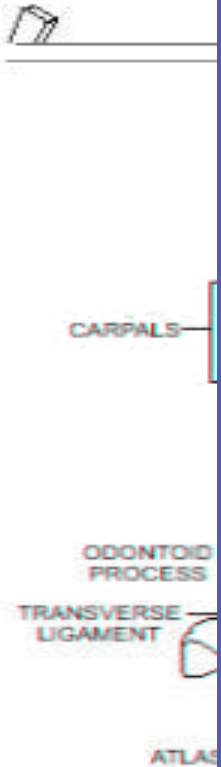
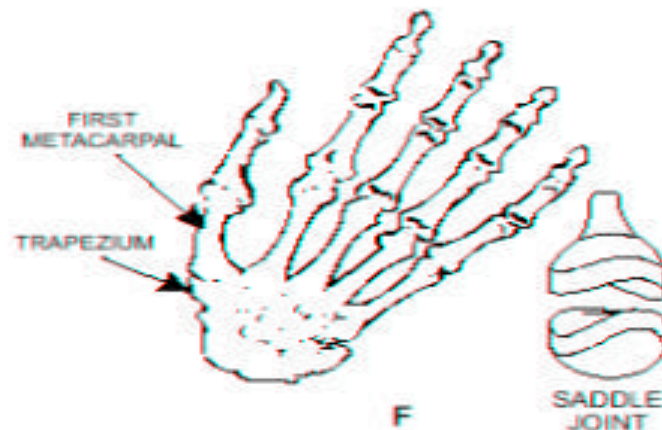
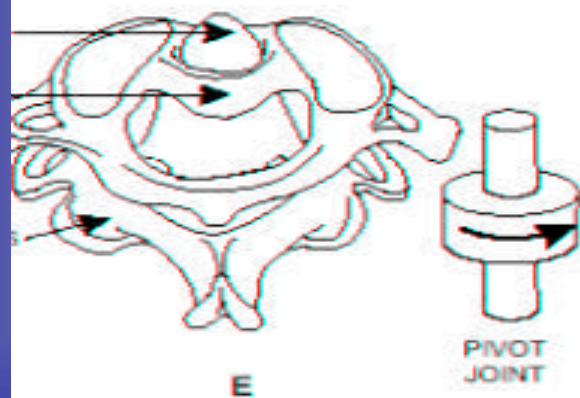
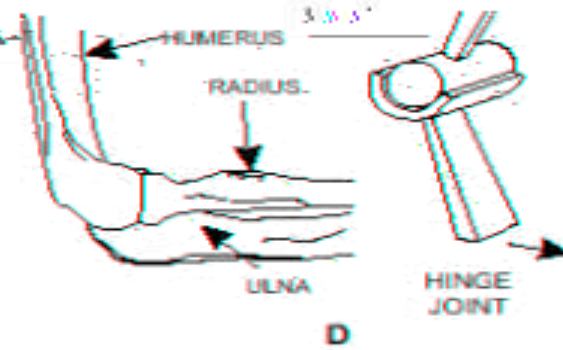
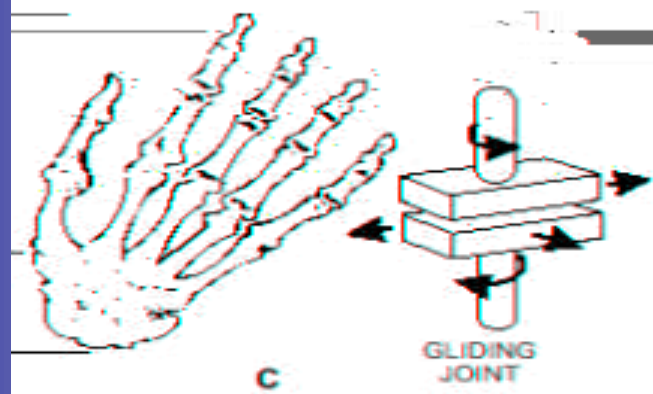
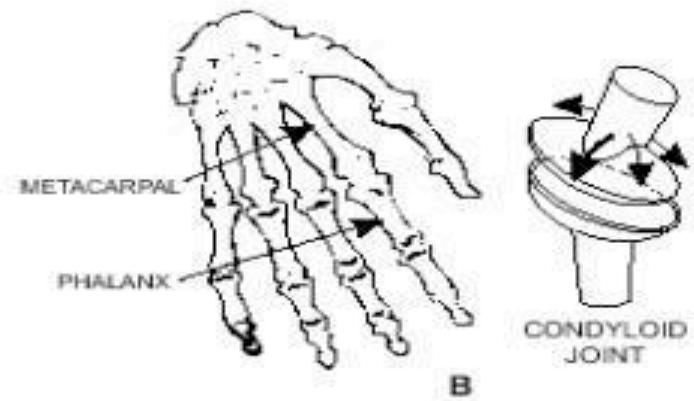
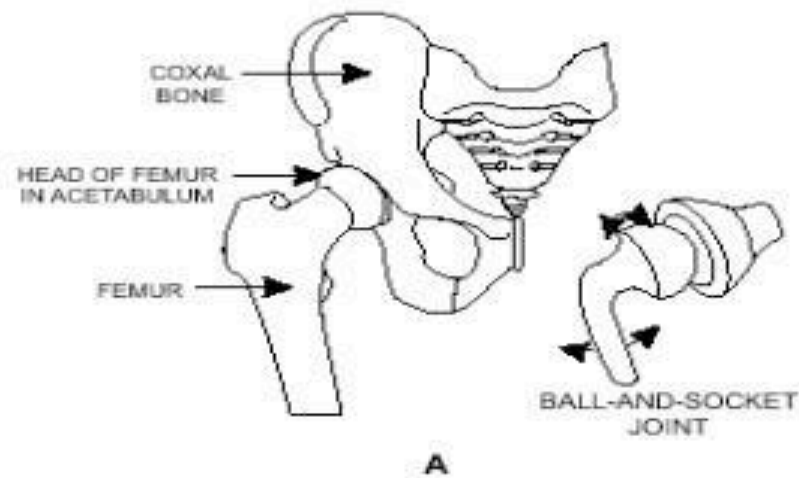


ELLIPSOIDAL

SLIGHTLY MOVEABLE

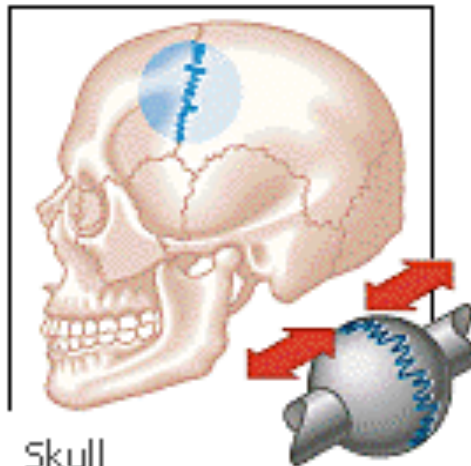






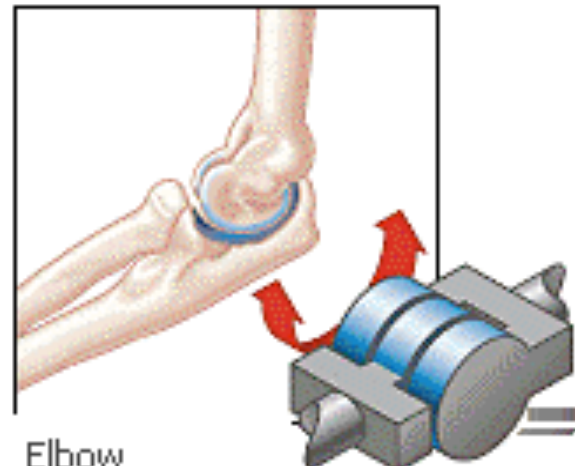
COMPARED TO MACHINE

Suture



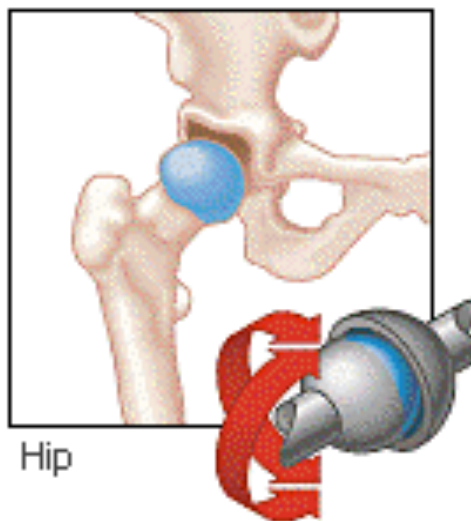
Skull

Hinge



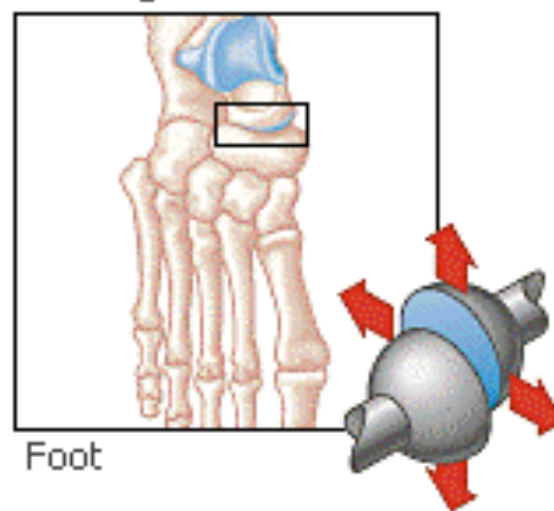
Elbow

Ball-and-socket



Hip

Gliding



Foot

Types of Joints

