Al- Mustaqbal University College First stage.

Department of Optometry(Optics)



جامعة المستقبل الاهلية مرحلة الاولى قسم التقنيات البصرية

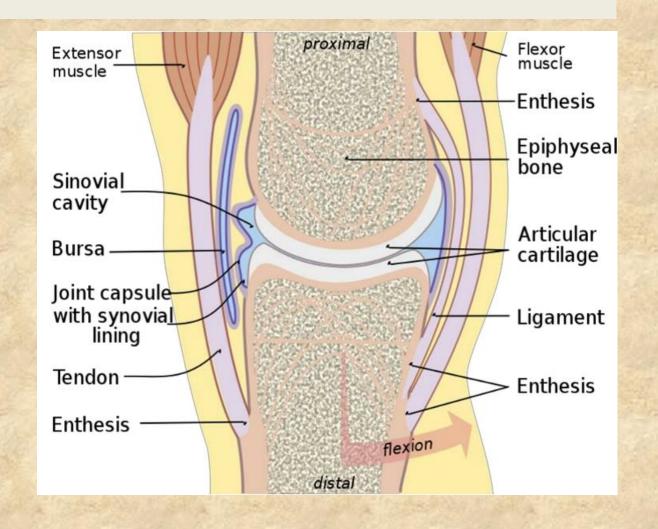
Head and neck anatomy Lec. 8

Anatomical Terminology

Dr. Marrwan Hisham Mohamed

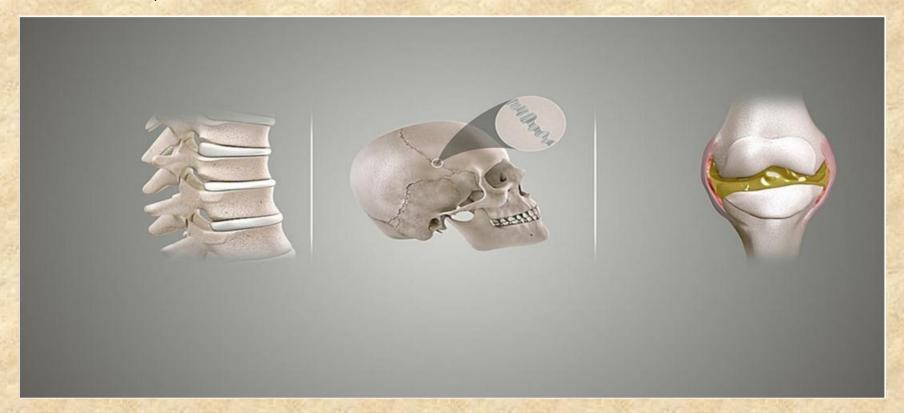
Joints

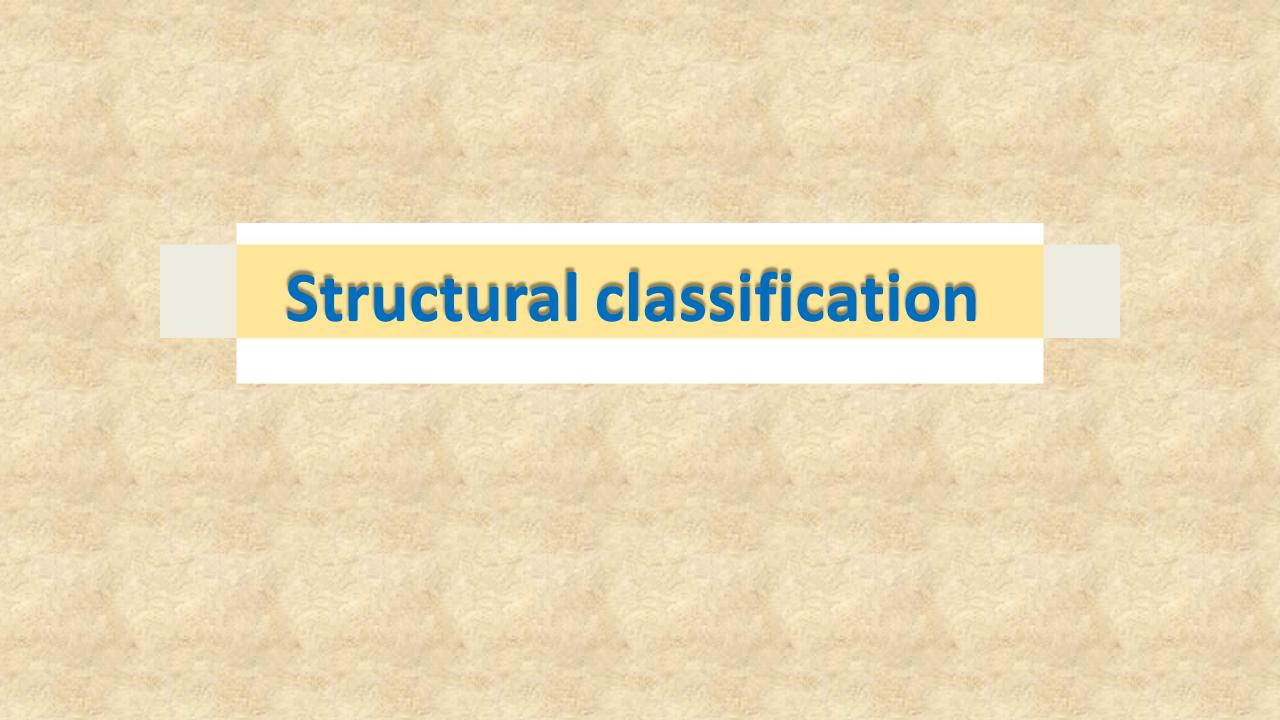
- **Doint:** is the connection made between bones in the body which link the skeletal system into a functional whole.
- The area where two bones are attached for the purpose of permitting body parts to move.



Types of Joints

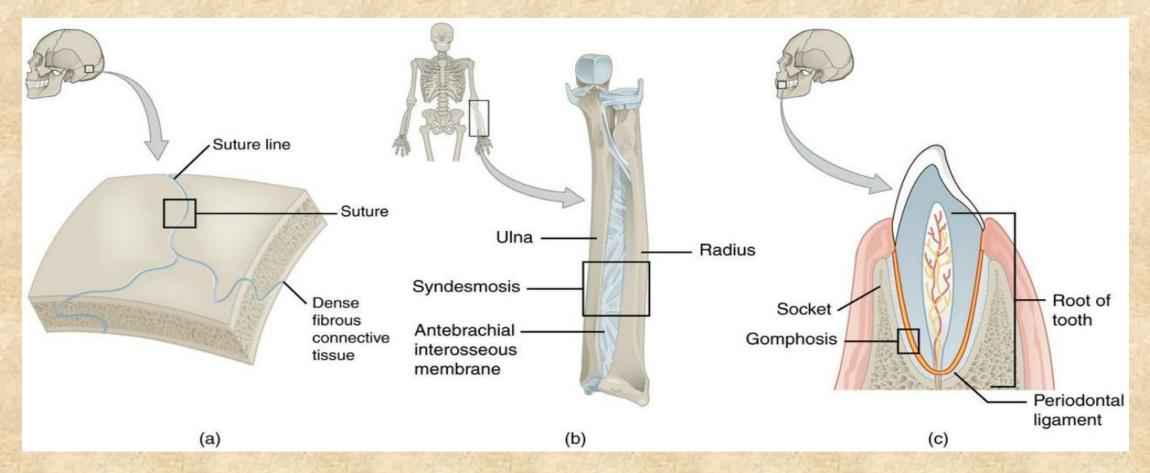
>> Joints can be classified by either their (structure or function).





1- Fibrous joint

Joined by dense regular connective tissue that is rich in collagen fibers.



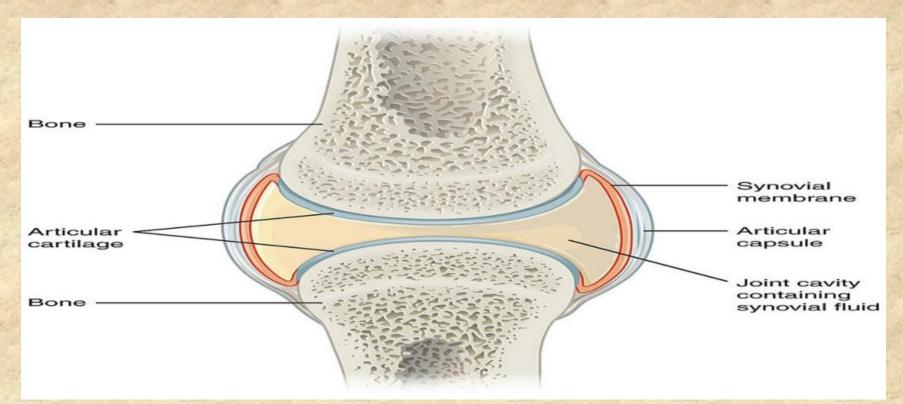
2- Cartilaginous joint

Joined by cartilage. There are two types: primary cartilaginous joints composed
of hyaline cartilage, and secondary cartilaginous joints composed of hyaline cartilage
covering the articular surfaces of the involved bones with fibrocartilage connecting
them.



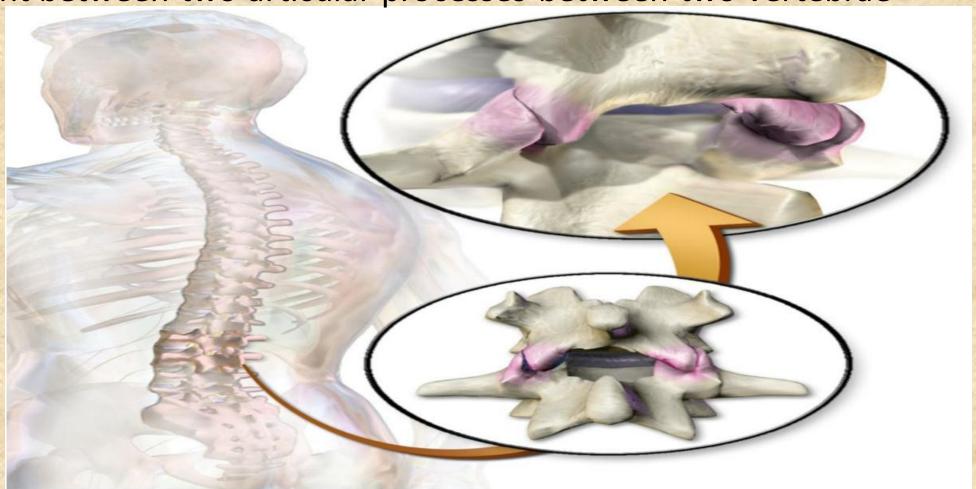
3- Synovial joint

 Not directly joined – the bones have a synovial cavity and are united by the dense irregular connective tissue that forms the articular capsule that is normally associated with accessory ligaments.



4- Facet joint

Joint between two articular processes between two vertebrae



Functional classification (movement)

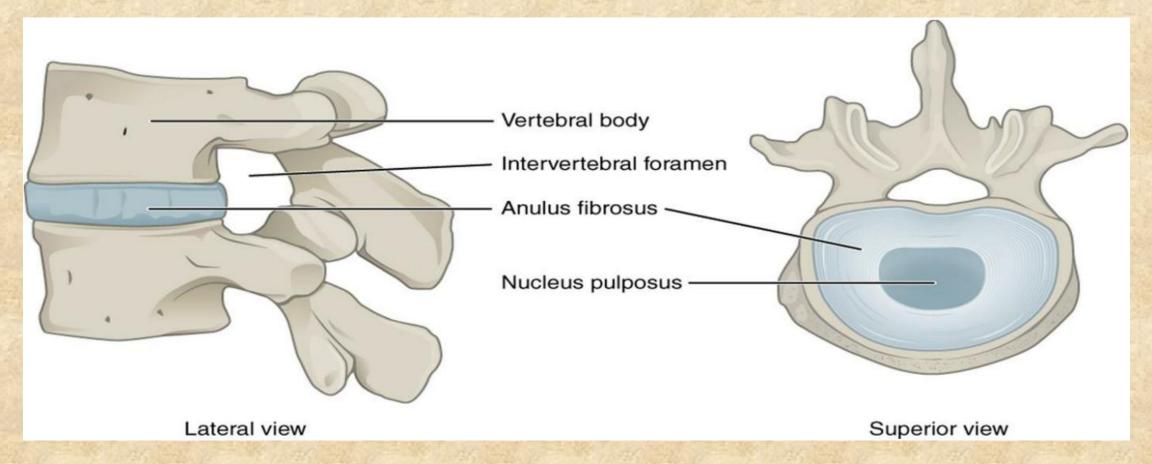
1-Immovable (synarthrosis).

These joints (called fibrous joints) are important for stability and protection. There are three types of immovable joints:

- 1-suture: These narrow fibrous joints connect bones of the skull (excluding the jaw bone).
- 2-syndesmosis: This type of fibrous joint connects two bones that are relatively far apart) (ulna and radius).
- 3- Gomphosis: This type of fibrous joint holds a tooth in place in its socket in the upper and lower jaw

2- Slightly Movable (amphiarthrosis) Joints

Amphiarthrosis: permits slight mobility. Most amphiarthrosis joints are cartilaginous joints (e.g., intervertebral discs).



3-Freely Movable (Synovial) Joints

Freely movable joints are classified structurally as synovial joints. Unlike fibrous and cartilaginous joints, synovial joints have a joint cavity (fluid-filled space) between connecting bones. Synovial joints allow for greater mobility but are less stable than fibrous and cartilaginous joints. Examples of synovial joints include joints in the(wrist, elbow, knees, shoulders, and hip).

Thank you so much for your attention