

ARTICULATIONS

1. Introduction
 - A. Articulation
 - B. Arthrology
 - C. Kinesiology
 - D. Rheumatology
2. Structural Classifications for Joints
 - A. Fibrous Joints
 - Dense Regular Connective Tissue
 - Collage
 - i. Suture
 - ii. Gomphosis
 - a. Periodontal ligament
 - iii. Ligament
 - B. Cartilaginous Joints
 - i. Symphysis
 - a. Symphesis pubis
 - b. Annulus fibrosis of Intervertebral disk
 - Nucleus Pulposus
 - ii. Synchrondroses
 - a. Costal Cartilages
 - b. Epiphyseal plates (Growth plates)

C. Synovial Joints

i. Anatomical Characteristics

a. Synovial Cavity

b. Articular Capsule

- Synovial Membrane
 - * Synovial Fluid (SF)
- Fibrous Capsule

c. Articular Cartilage

d. Accessory Ligaments

- Extracapsular Ligaments
- Intracapsular Ligaments

e. Menisci

f. Bursae

g. Fat Pad

iv. Synovial Joint Movements Note: Know all examples given in class in preparation for the lab practical. See your text as well for support)

a. Gliding (Examples: Sup/inf articular facets of vertebrae; carpels and tarsals)

b. Angular

- Flexion
- Extension

- Hyperextension
 - * Examples: antebrachium, lower leg, vertebral column, cervical vertebrae
 - Abduction
 - Adduction
 - * Examples: arm, leg, scapula
 - c. Rotation example: rotation of arm, scapula
 - Medial Rotation
 - Lateral Rotation
 - d. Circumduction (example: glenohumeral joint, coxal joint)
 - e. Special
 - Inversion (Example: feet)
 - Eversion (Example: feet)
 - Dorsiflexion (Example: feet)
 - Plantar Flexion (Example: feet)
 - Protraction (Example: mandible, pectoral girdle, head)
 - Retraction (Example: mandible, pectoral girdle, head)
 - Supination (Example: palms of hand)
 - Pronation (Example: palms of hand)
 - Elevation (Example: mandible, pectoral girdle)
 - Depression (Example: mandible, pectoral girdle)
4. Major Body Articulations
- A. Humeroscapular (Shoulder) Joint
 - B. Coxal (Hip) Joint
 - C. Tibiofemoral (Knee) Joint