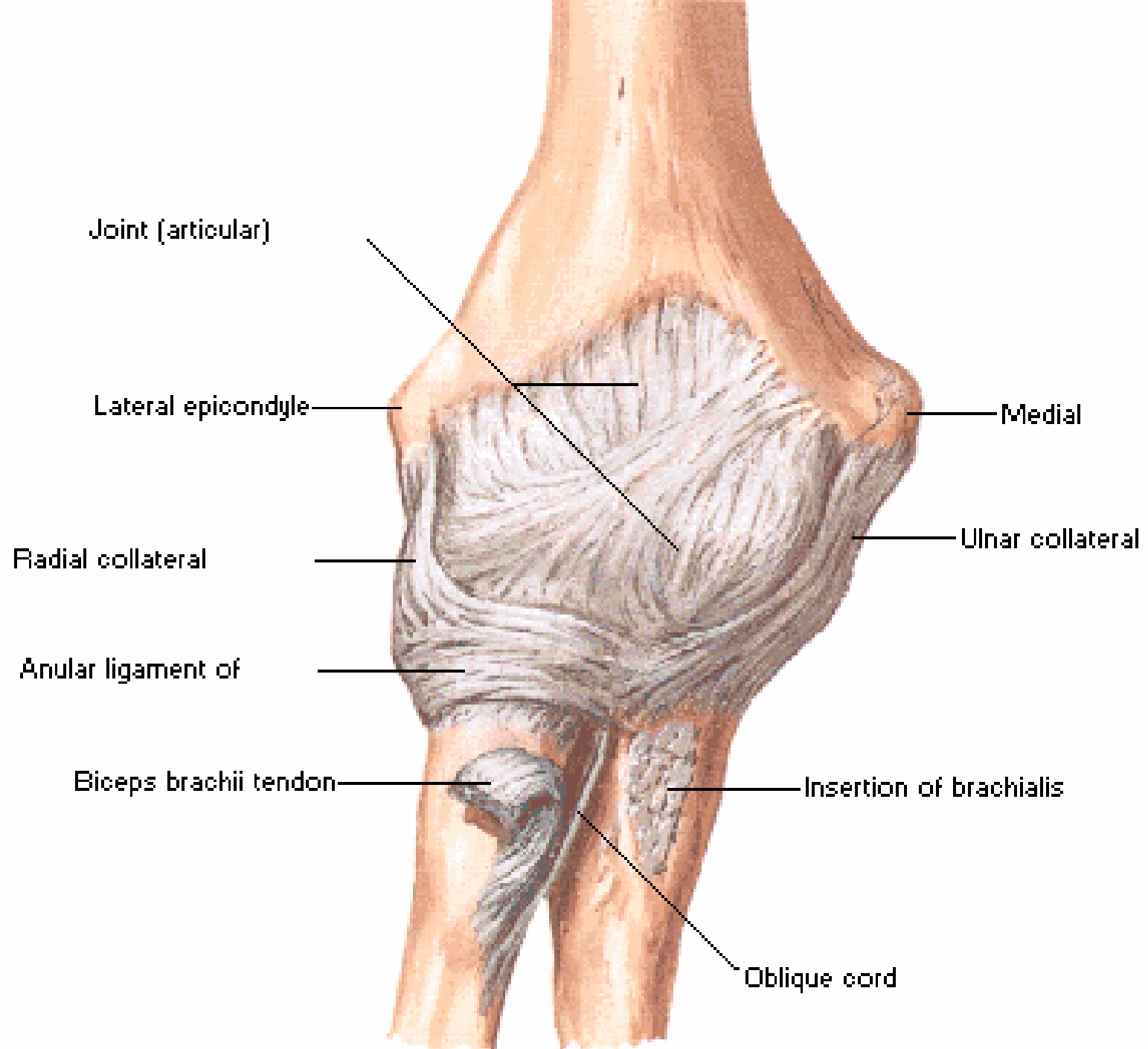


بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

**JOINTS**



# Elbow Joint

- **Type:** Synovial hinge joint.
- **Articulation:** between the trochlea and capitulum of the humerus and trochlear notch of the ulna and head of the radius.
- **Capsule:** is attached **above to** the upper margin of the coronoid and radial tuberosities anteriorly and the upper margin of the olecranon fossa posteriorly, and **below to** the margins of coronoid and olecranon processes and annular ligament.
- **Ligaments:** medial and lateral collateral ligaments of the elbow.

# Elbow Joint

- **Synovial membrane:** It lines all the joint cavity except the hyaline cartilage.
- It communicates with the synovial membrane of the proximal radio-ulnar joint.
- **Nerve supply:**  
Branches from Median, ulnar, musculocutaneous and radial nerves.
- **Movement:**
  - **Flexion:** by brachialis, biceps brachii, brachioradialis and pronator teres.
  - **Extension:** by triceps and anconeus.

# Proximal radioulnar Joint

- **Type:** Synovial pivot joint.
- **Articulation:** between the circumference of the head of the radius and the radial notch of the ulna and annular ligament.
- **Capsule:** continuous with capsule of elbow joint.
- **Ligaments:** annular ligament.
- **Nerve supply:**  
Branches from Median, ulnar, musculo-cutaneous and radial nerves.
- **Movement:**
  - **Pronation:** by pronator teres and pronator quadratus.
  - **Supination:** by biceps brachii and supinator.

# Distal radioulnar Joint

- **Type:** Synovial pivot joint.
- **Articulation:** between the head of the ulna and the ulnar notch of the radius.
- **Ligaments:** weak anterior and posterior ligament.
- **Nerve supply:**  
Branches from anterior and posterior interosseus nerves.
- **Movement:**
  - **Pronation:** by pronator teres and pronator quadratus.
  - **Supination:** by biceps brachii and supinator.

# Wrist Joint

- **Type:** Synovial ellipsoid joint.
- **Articulation:** between the distal end of the radius and the articular disc above and the scaphoid, lunate and triquetrum below.
- **Capsule:** is attached to the boundaries of the articular bones.
- **Ligaments:** anterior, posterior, medial and lateral collateral ligaments of the wrist.
- **Nerve supply:**  
anterior and posterior interosseous nerves.

# Wrist Joint

## ■ Movement:

- **Flexion:** by flexor carpi radialis, flexor carpi ulnaris, palmaris longus, assisted by flexor digitorum superficialis, flexor digitorum profundus and flexor pollicis longus.
- **Extension:** by extensor carpi radialis longus, extensor carpi radialis brevis, extensor carpi ulnaris, assisted by extensor digitorum, extensor digiti minimi, extensor indicis and extensor pollicis longus.
- **Abduction:** by flexor carpi radialis, extensor carpi radialis longus and brevis, assisted by abductor pollicis longus and extensor pollicis longus and brevis.
- **Adduction:** by flexor carpi ulnaris, extensor carpi ulnaris.

**THANK YOU**