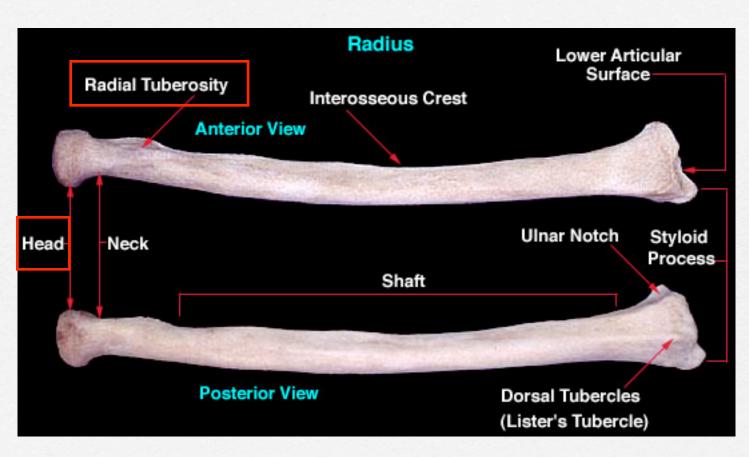
The Elbow and Radioulnar Joint

Bone and Actions
Chapter 6

Terminology

- □ Condyle large round projection
- Epicondyle a projection located above a condyle
- ☐ Fossa-hollow, depression or flattened surface
- □ Tubercle small round projection
- □ *Supination external rotation of the radius
- □ *Pronation internal rotation of the radius

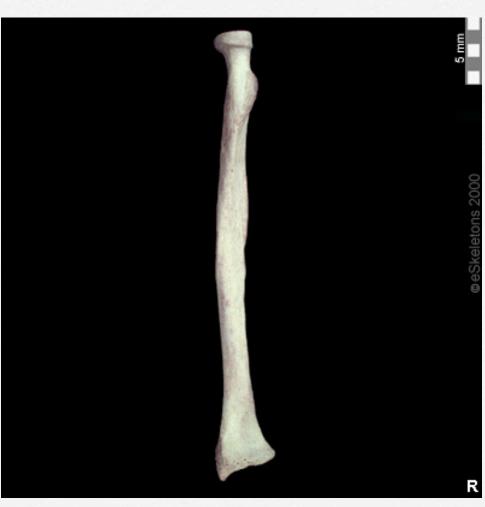
Radius



radial tuberosity

head

Radius

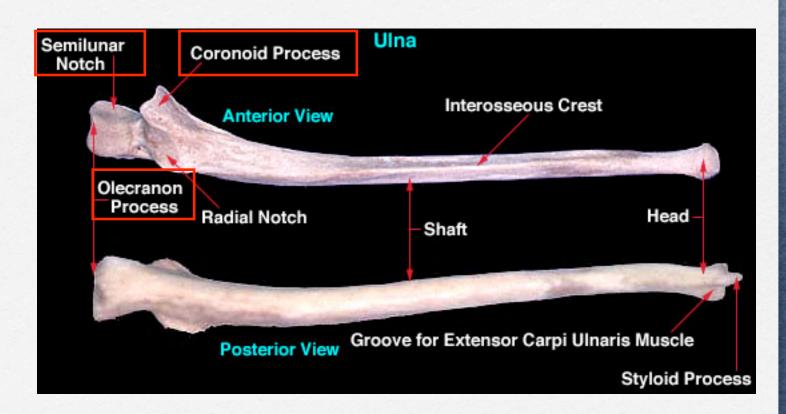


head

radial tuberosity

Ulna

- coronoídprocess
- □ trochlear (semílunar) notch
- olecranonprocess



Ulna

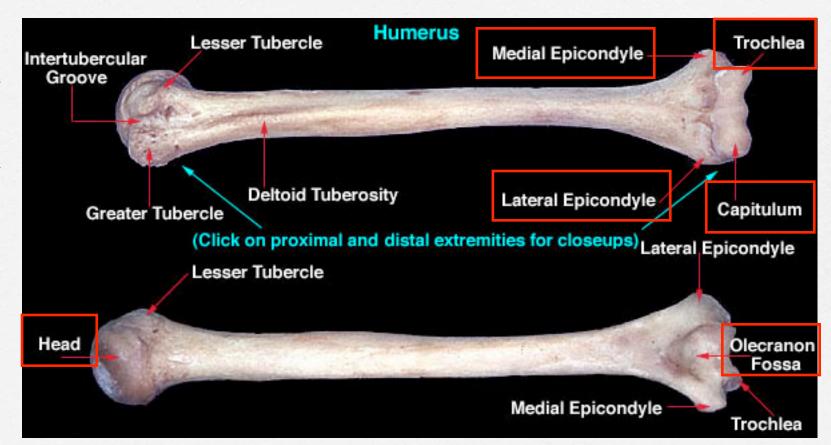




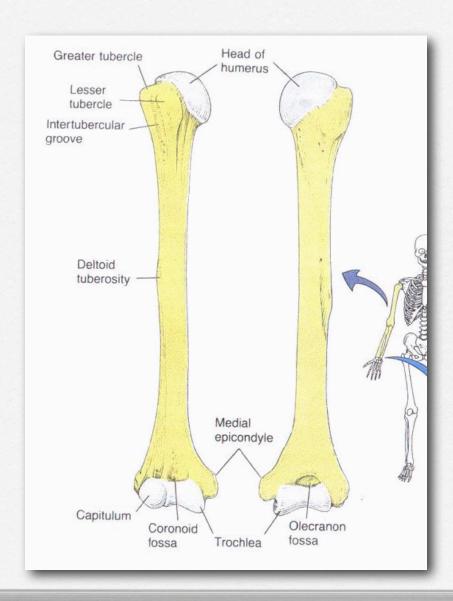
- olecranon process
- 2. trochlear (semílunar) notch
- 3. coronoíd process

Humerus

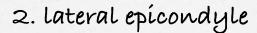
- medíal epícondyle
- □ lateral epicondyle
- □ trochlea
- o capitulum
- □ olecranon fossa
- □ head



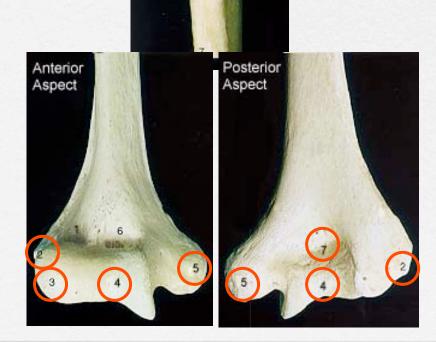
Humerus



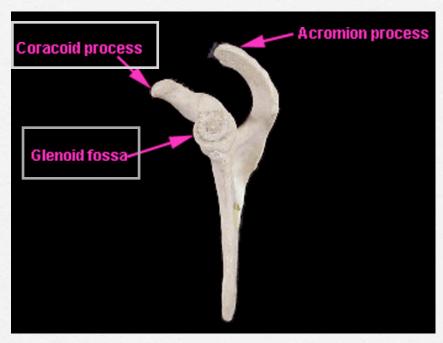
Humerus

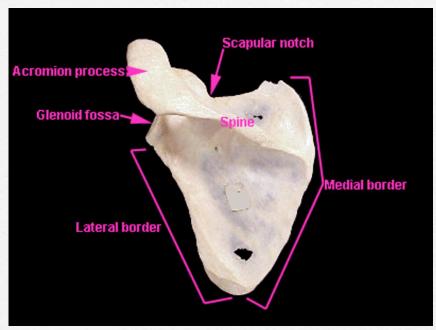


- 3. capítulum
- 4. trochlea
- 5. medial epicondyle
- 7. olecranon fossa



Scapula





- O glenoid fossa
- ocoracoid process

Scapula



2. glenoid fossa

1. coracoid process



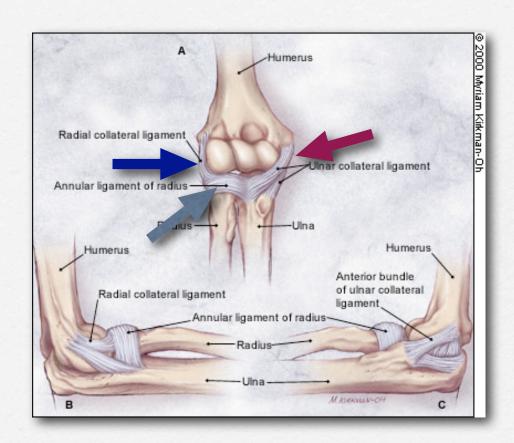
Joints

- ☐ Humeroulnar (elbow)
 - humerus (trochlea) andulna (trochlear notch)
 - □ hingejoint
- □ Radioulnar
 - radius (head) and ulna
 - □ pivot joint
- □ Radiohumeral



Ligaments

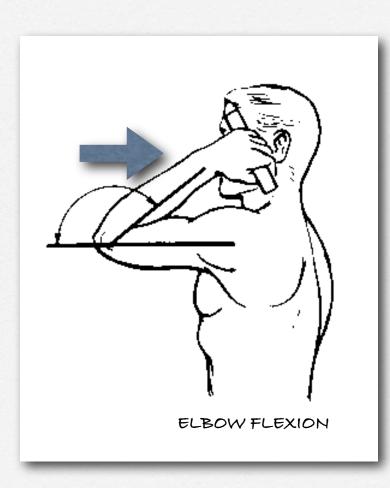
- □ Radial collateral
- □ ulnar collateral
- □ Annular

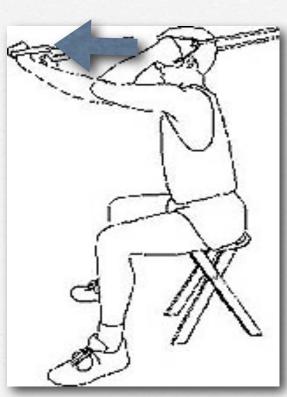


Ligaments



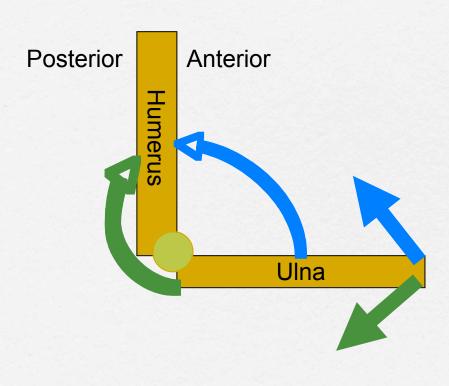
- ☐ Flexion and Extension
 - □ Elbow or Humeroulnar Joint
 - □ Sagittal plane
- O Supination and Pronation
 - O Radioulnar
 - □ Transverse plane

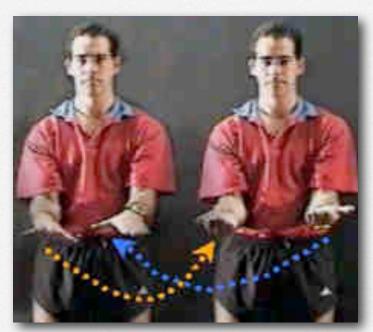




ELBOW EXTENSION

- □ What is the action when an anterior muscle contracts?
- □ What is the action when a posterior muscle contracts?



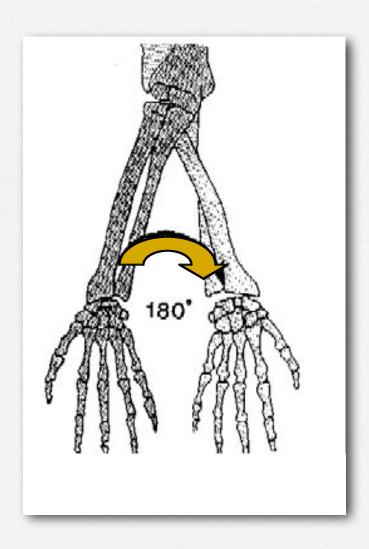






Pronation & Supination

Pronation



Radius moves medially

Ends up crossing the ulna



Propation

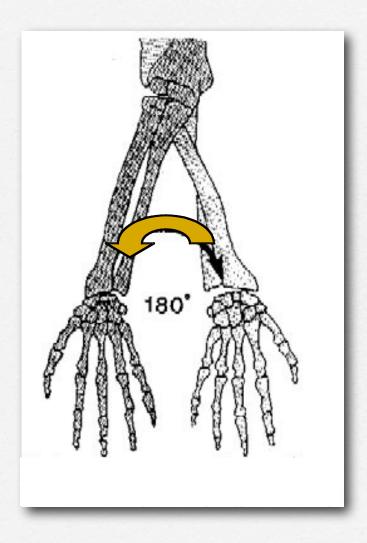
Supination

Radius moves laterally

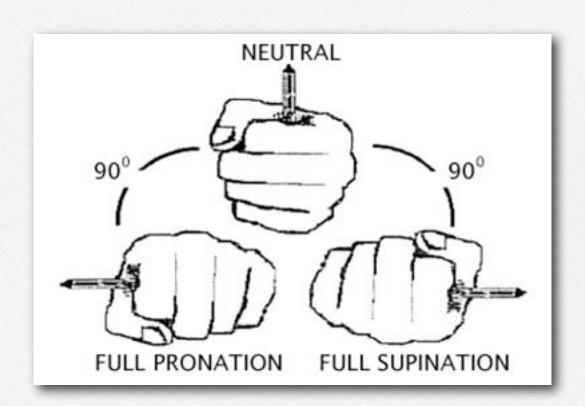
Ends up parallel to the ulna



Supination



Neutral Position





Synergy between joints

- ☐ Tightening a screw: supination and flexion
- □ Loosening a screw: pronation and extension



What position his right elbow in? His right forearm? His left elbow?



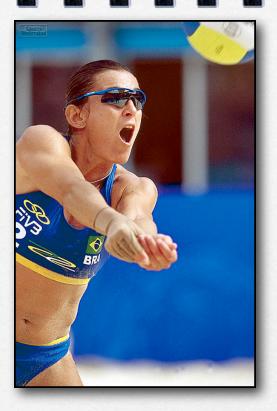
What position is his right forearm in? What is his name?



What position is his left elbow in?



What positions are her right elbow and forearm in?



What positions are her left elbow and forearm in?