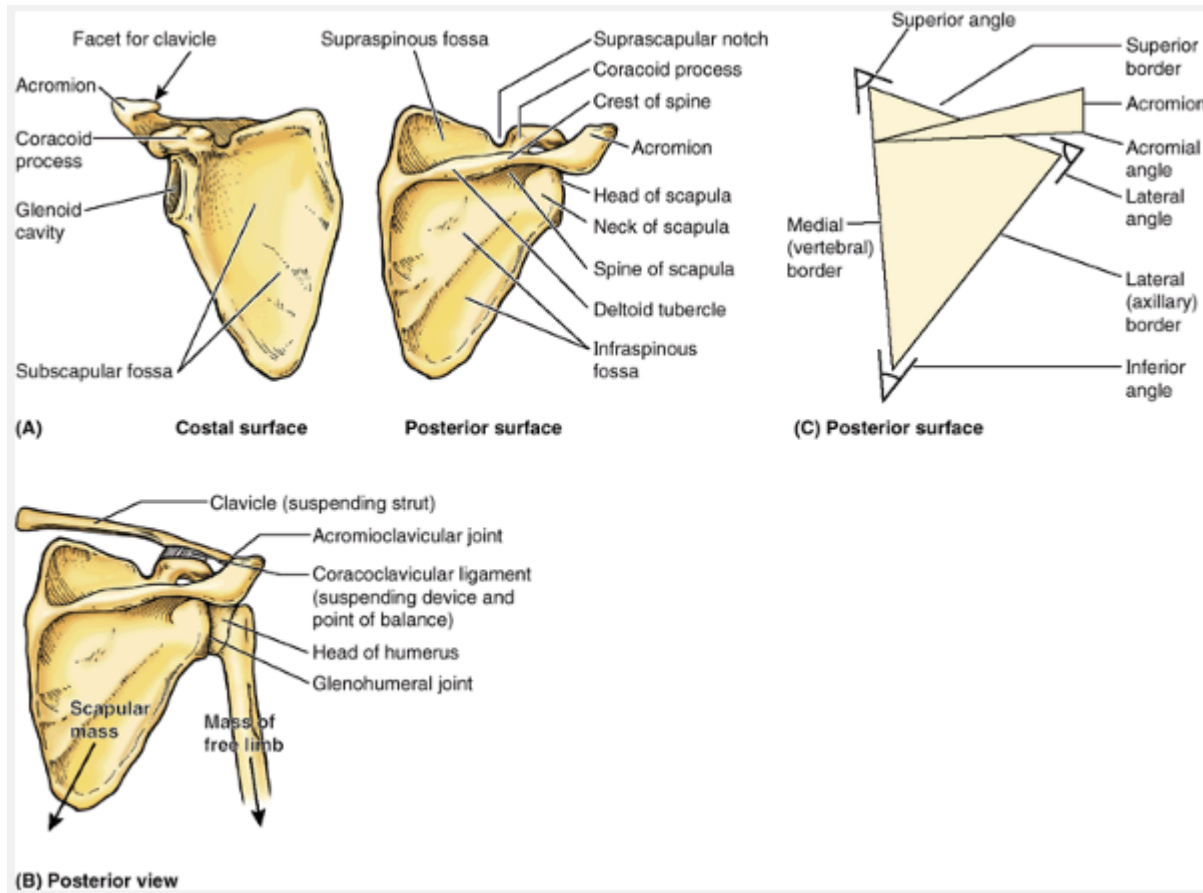


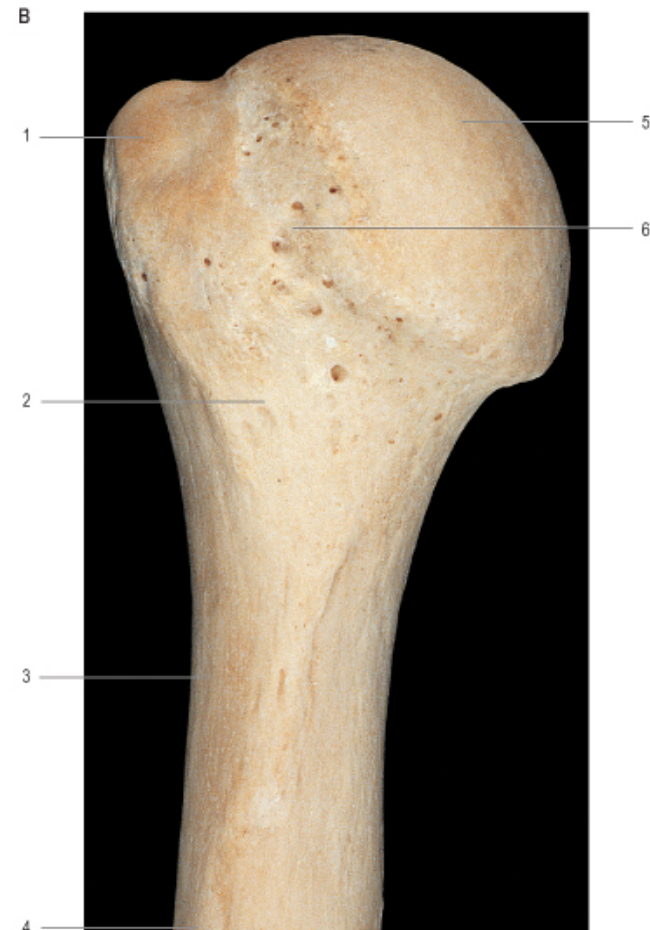
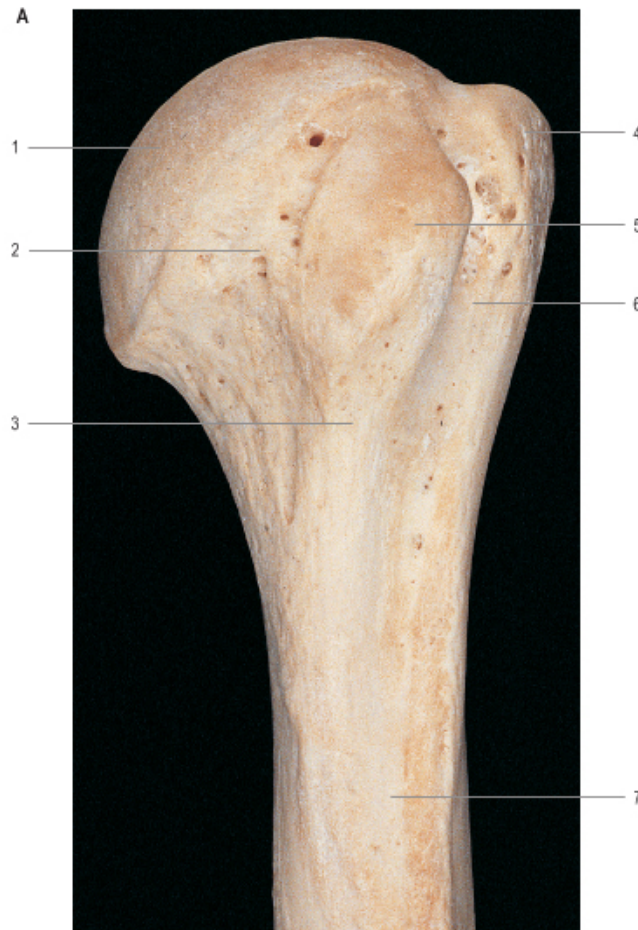
RADIOLOGY

Scapula



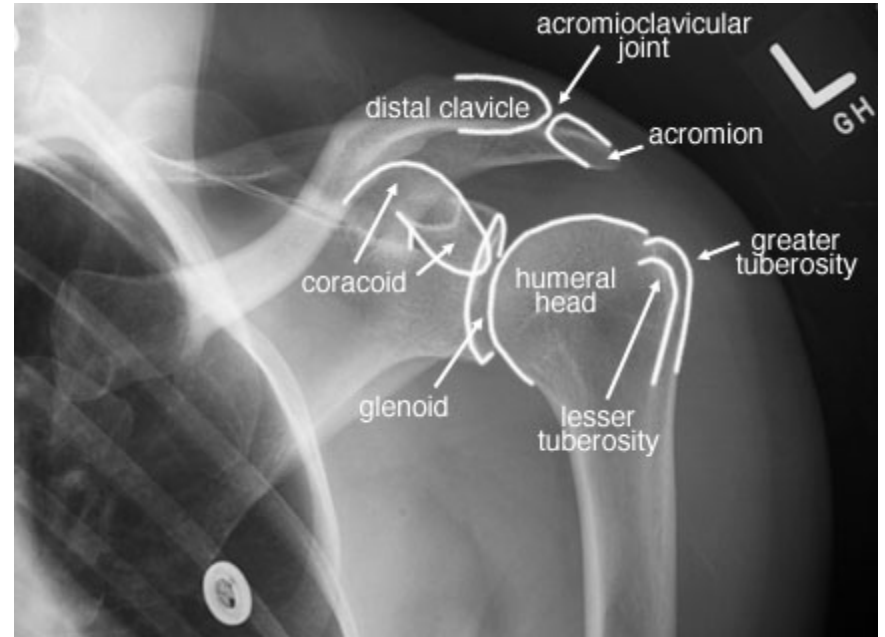
A. Anterior aspect of proximal end of left humerus

B. Posterior aspect of proximal end of left humerus



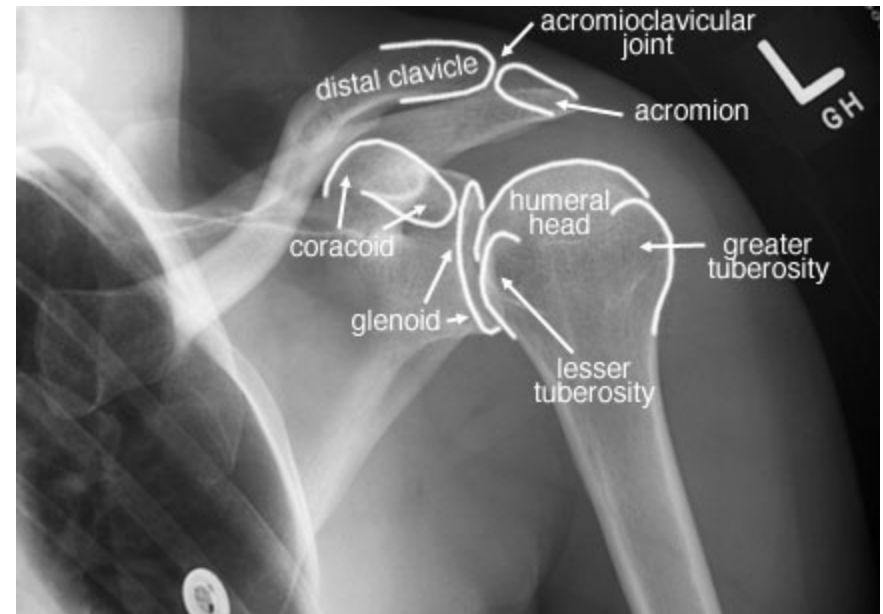
Part A: 1. Head. 2. Anatomical neck. 3. Surgical neck. 4. Greater tubercle. 5. Lesser tubercle. 6. Intertuberosity sulcus. 7. Shaft.
Part B: 1. Greater tubercle. 2. Surgical neck. 3. Shaft. 4. Radial groove. 5. Head. 6. Anatomical neck.

SHOULDER- external rotation

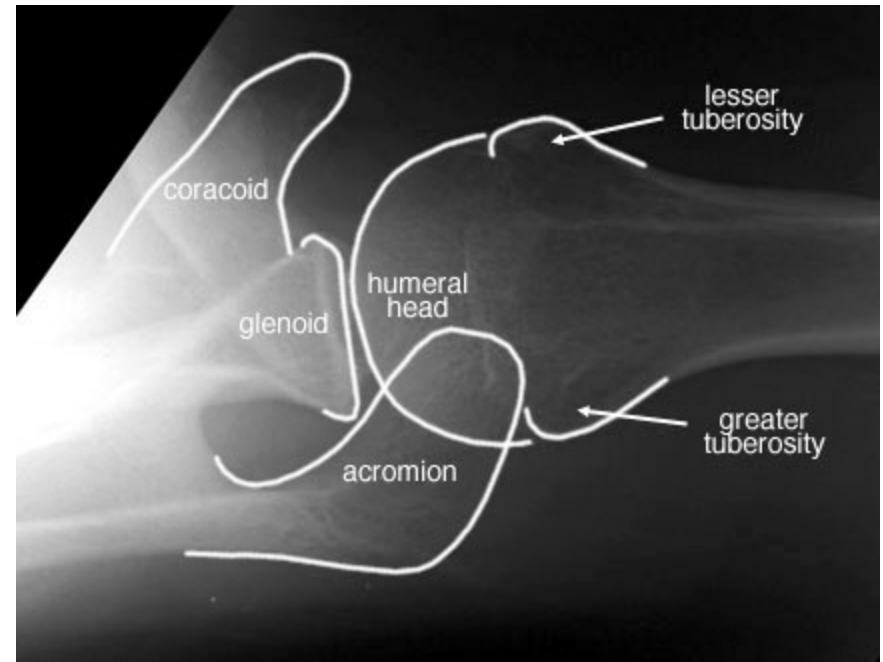


- The usual radiograph is an AP view with the humerus laterally rotated so that its epicondyles are parallel with the X-ray film cassette. Because some obliquity of the glenoid cavity occurs normally, it appears oval in shape. In this view, the lateral two thirds of the clavicle is visible. The articulation of the acromial end of the clavicle with the acromion of the scapula at the AC joint is apparent. This is a frequent site of subluxation of the joint. The surgical neck of the humerus, approximately 2.5 cm distal to the greater and lesser tubercles, is a common site of fracture. The axillary nerve is in contact with the surgical neck and vulnerable to injury. Examination of the humerus reveals dense cortical bone along the shaft, which thins out proximally and becomes extremely thin over the head of the bone. The radial nerve runs inferolaterally in the radial groove on the posterior surface of the humerus and is vulnerable to injury in a midhumeral fracture.

SHOULDER-internal rotation

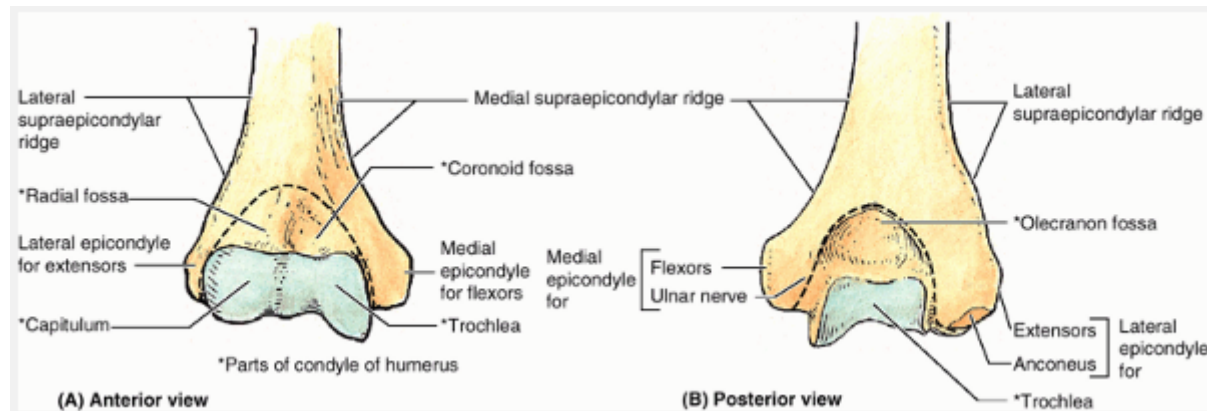


SHOULDER-axillary view

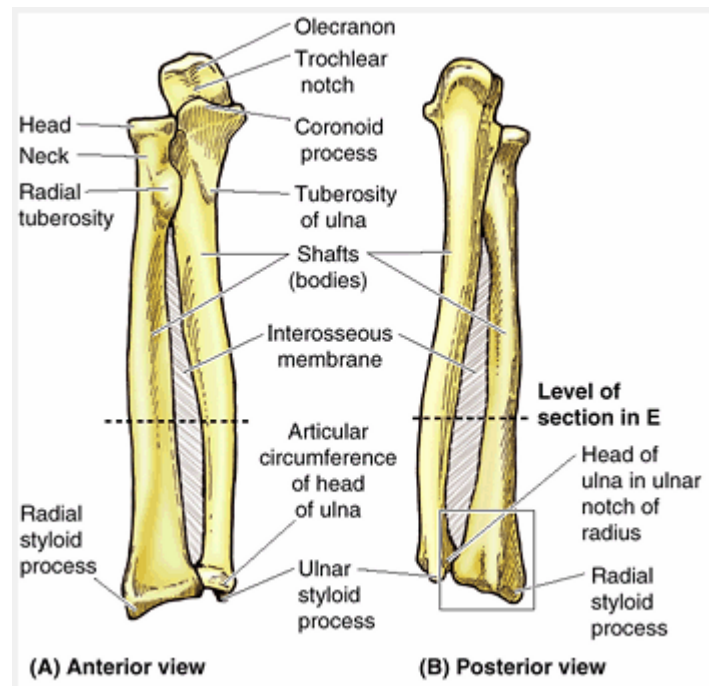


- An axial projection of the shoulder provides an essential additional view of the AC and glenohumeral joints. To obtain an axial projection, the person is asked to abduct the arm and extend the shoulder over the X-ray film cassette.

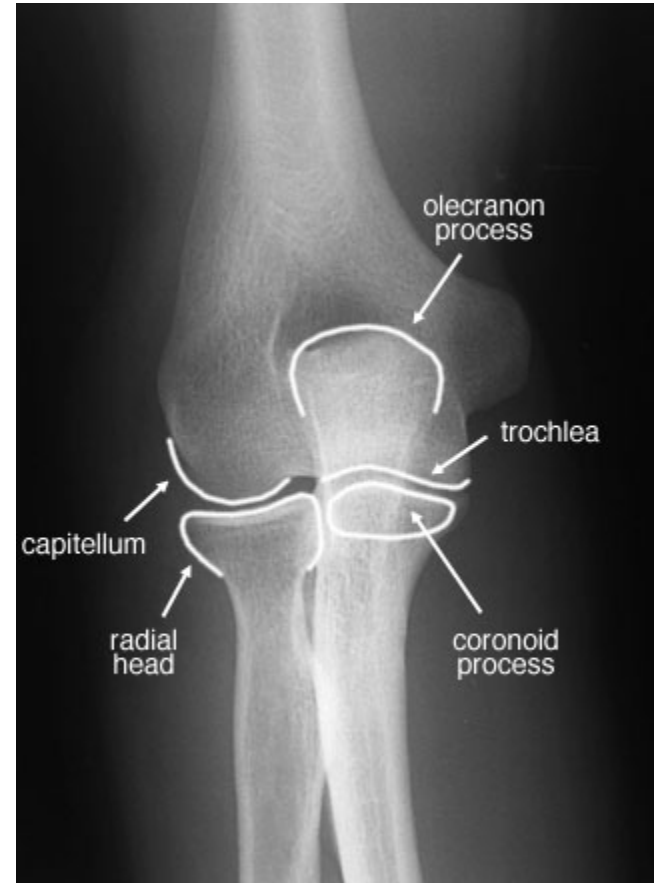
Distal end of right humerus



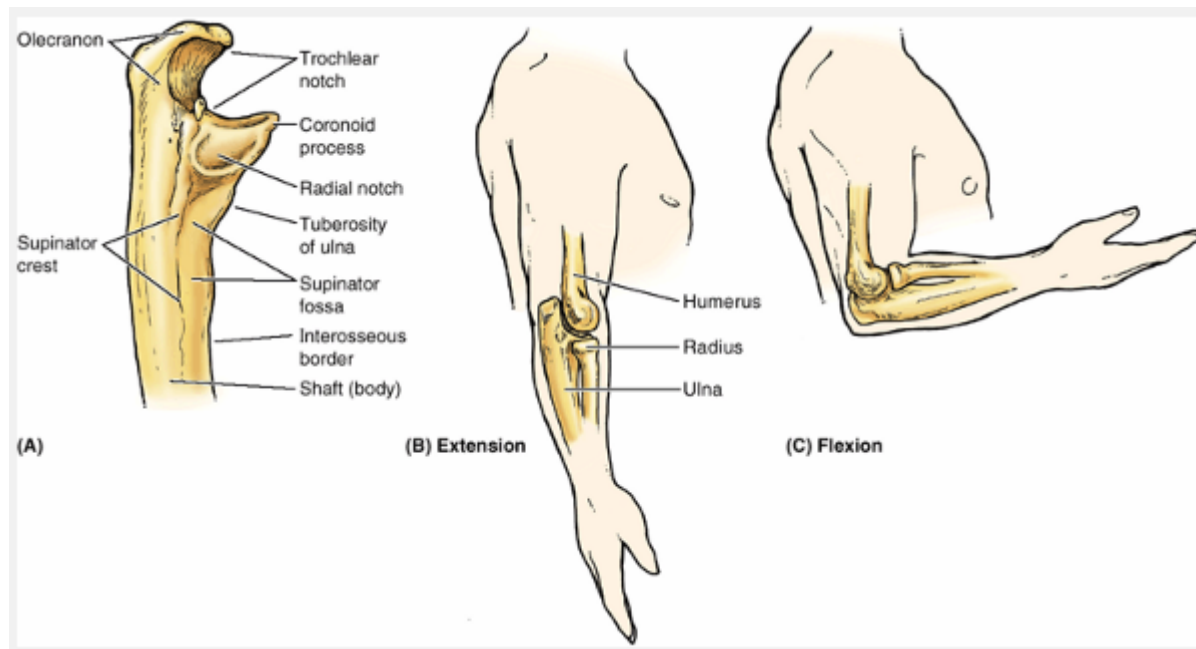
Right radius and ulna



ELBOW-AP VIEW



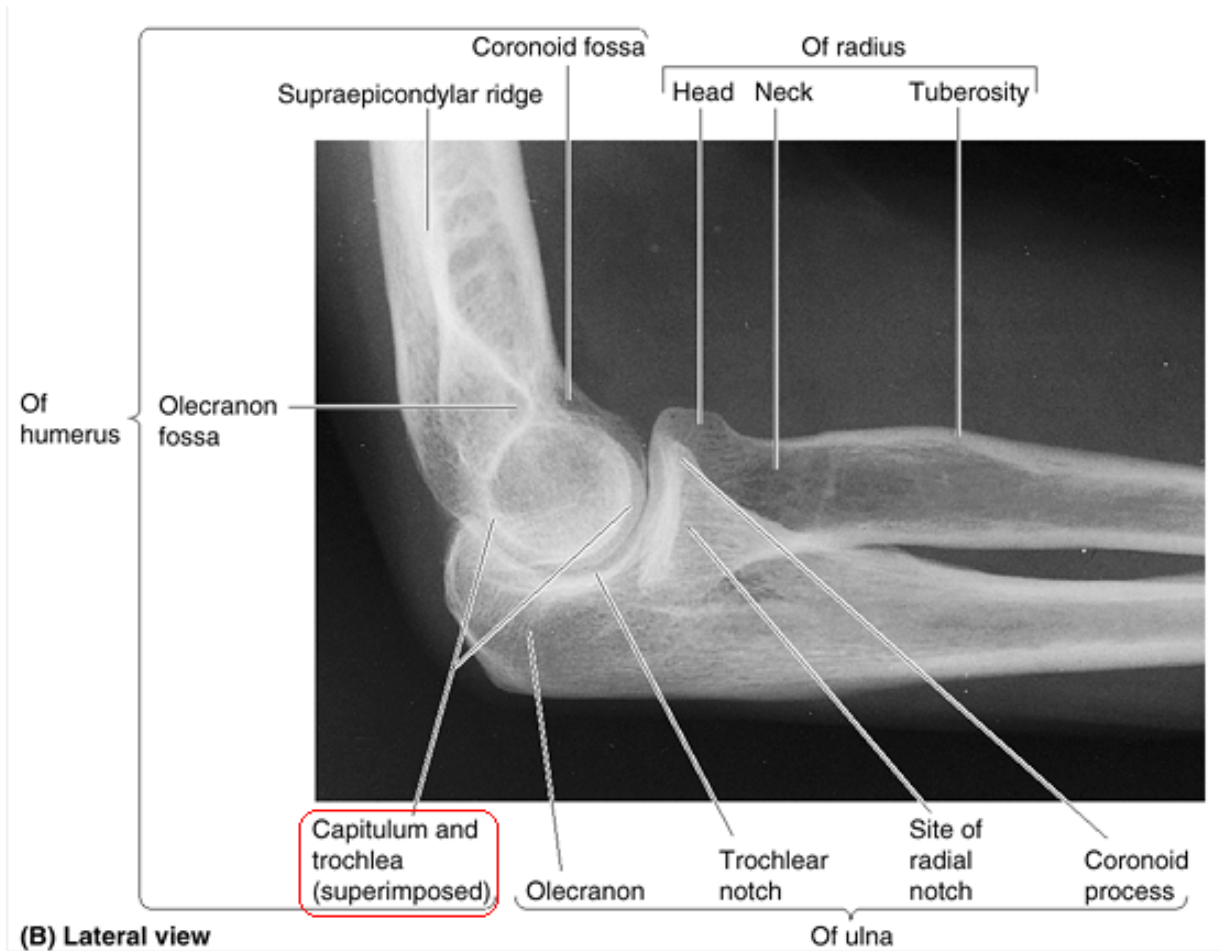
Bones of right elbow region



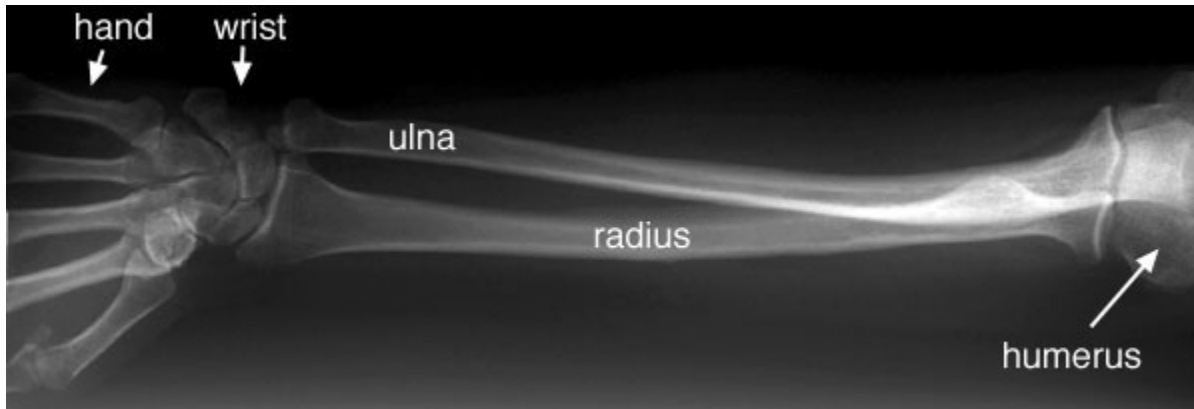
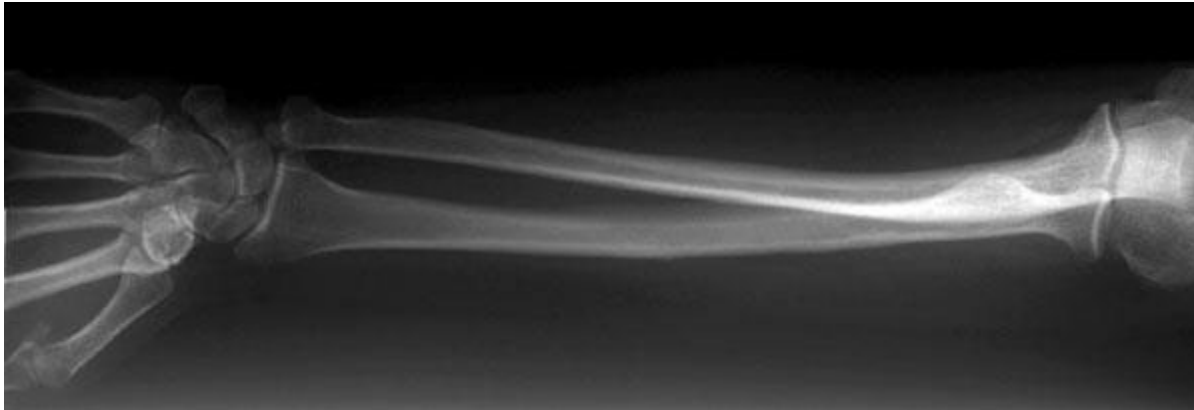
ELBOW-LATERAL VIEW



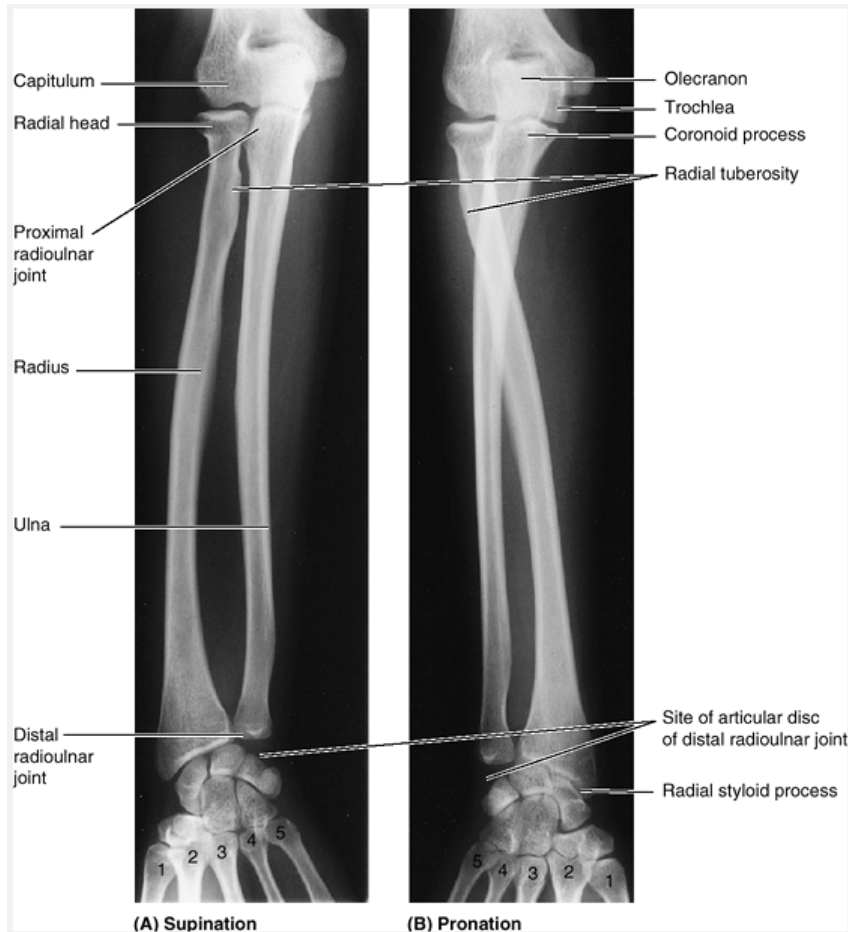
Elbow- lateral view



FOREARM-AP VIEW



Fore arm-AP views

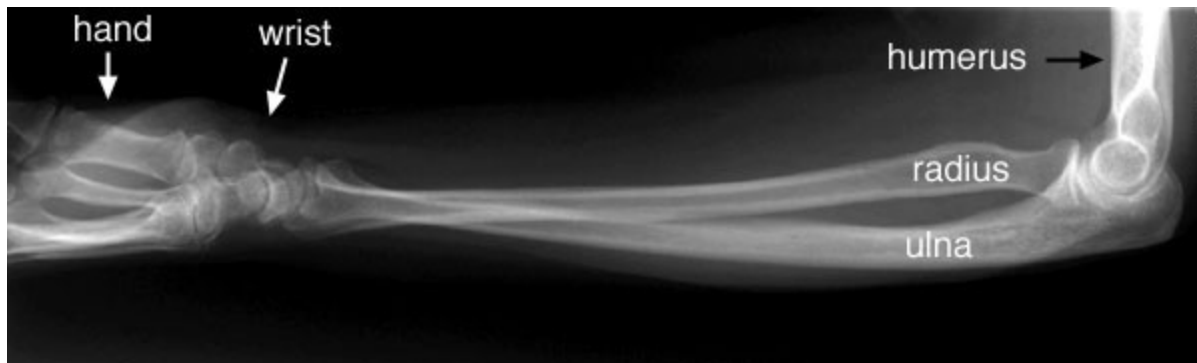
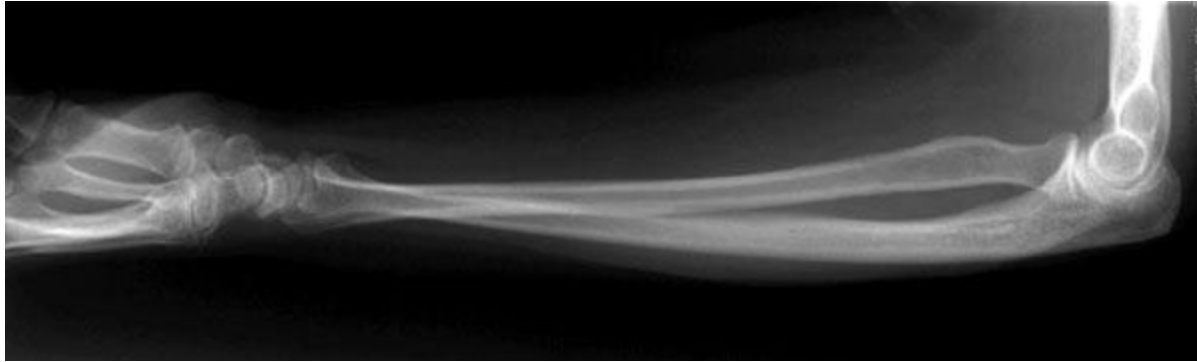


- A. In the supinated position, the radius and ulna are parallel.
- B. During pronation, the inferior end of the radius moves anteriorly and medially around the inferior end of the ulna, carrying the hand with it; thus in the pronated position, the radius crosses the ulna anteriorly.

Fore arm-AP view

- Observe the translucent area between the capitulum and the radial head and between the trochlea and the coronoid process. This area is where the articular cartilages of the articulating bones are located. The radius and ulna bow (are outwardly convex) as they extend distally from the elbow. The bones become increasingly separated from each other in their distal two thirds, coming into contact more abruptly distally. The interosseous membrane is radiolucent (invisible to radiographic study). To detect fractures and verify their correct reduction (restoration to the normal position), keep in mind that the radial styloid process normally ends 1 cm distal to the ulnar styloid process.

FOREARM-LATERAL VIEW



WRIST-PA VIEW

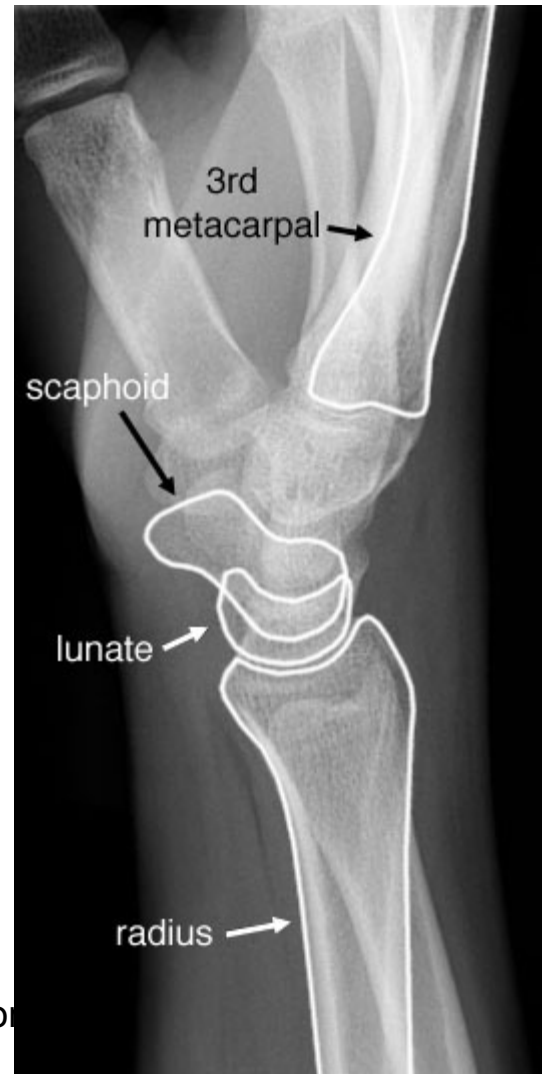


WRIST-PA VIEW



- A lateral projection of the wrist and hand is of great importance because certain fractures may be revealed only in this projection.
- A fall on the outstretched hand may result in fracture of the scaphoid, generally across its narrow part. A radiologist looks for a scaphoid fracture if the physician reported tenderness over the scaphoid in the anatomical snuff box; however, it may not be detectable even in several oblique views until approximately 2 weeks after the injury

WRIST-LATERAL VIEW



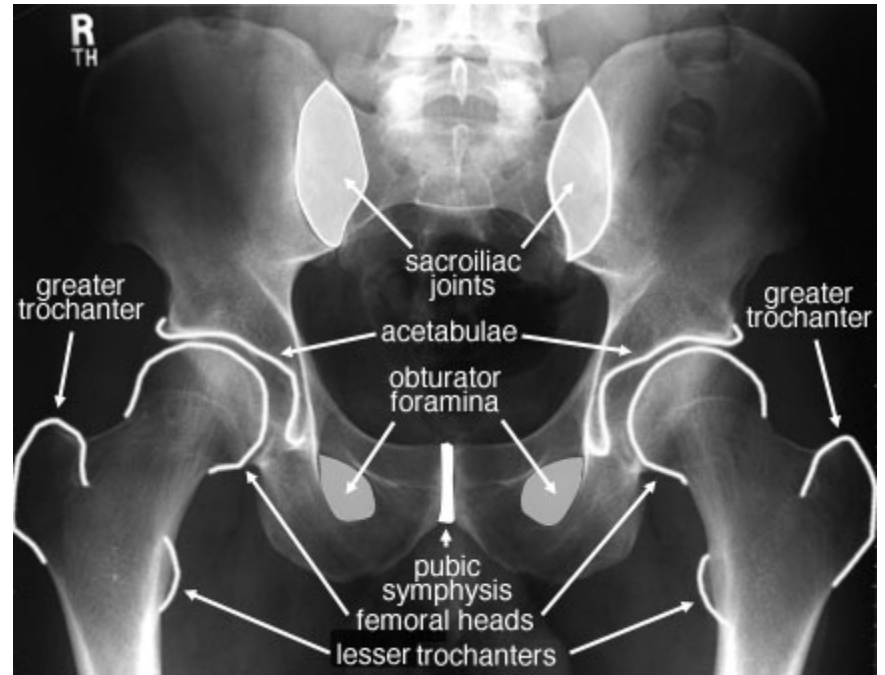
- Radiographs of the wrist and hand are commonly used to assess skeletal age.
- Fusion of the distal radial and ulnar epiphyses is complete radiographically at age 16 in females and at age 18 in males.
- The carpal bones are superimposed on each other; however, when compared with a skeleton of the wrist and hand, the bones can be identified.

- B. The distal end of the forearm and the hand of a 2.5-year-old child are shown. Ossification centers of only four carpal bones are visible. Observe the distal radial epiphysis (R). C, capitate; H, hamate; L, lunate; Tq, triquetrum.
- C. The inferior end of the forearm and hand of an 11-year-old child are shown. Ossification centers of all carpal bones are visible. The arrow indicates the pisiform lying on the anterior surface of the triquetrum. The distal epiphysis of the ulna (U) has ossified but all epiphyseal plates (lines) (i.e., they are still unossified). S, scaphoid; Td, trapezoid; Tz, trapezium.

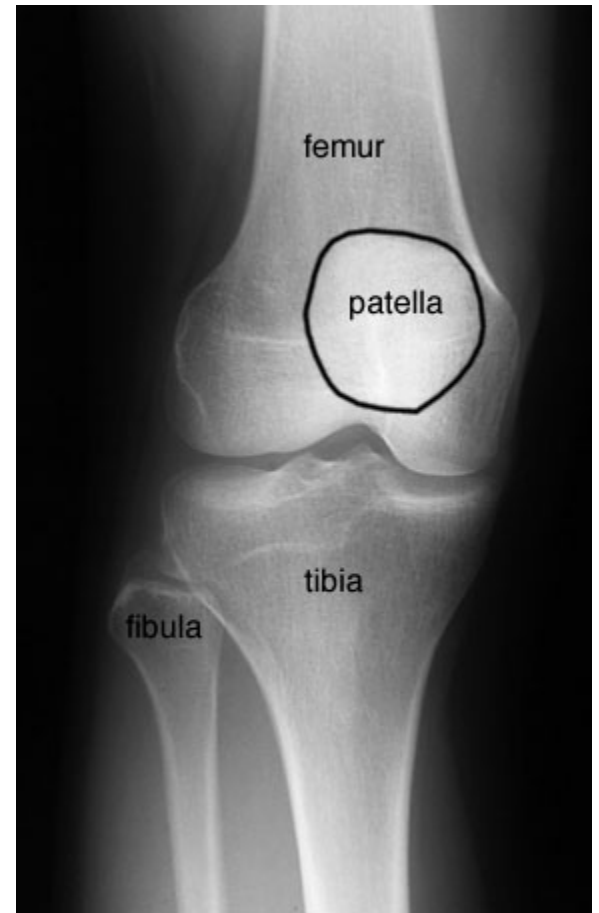
HAND- PA VIEW



PELVIS-AP VIEW



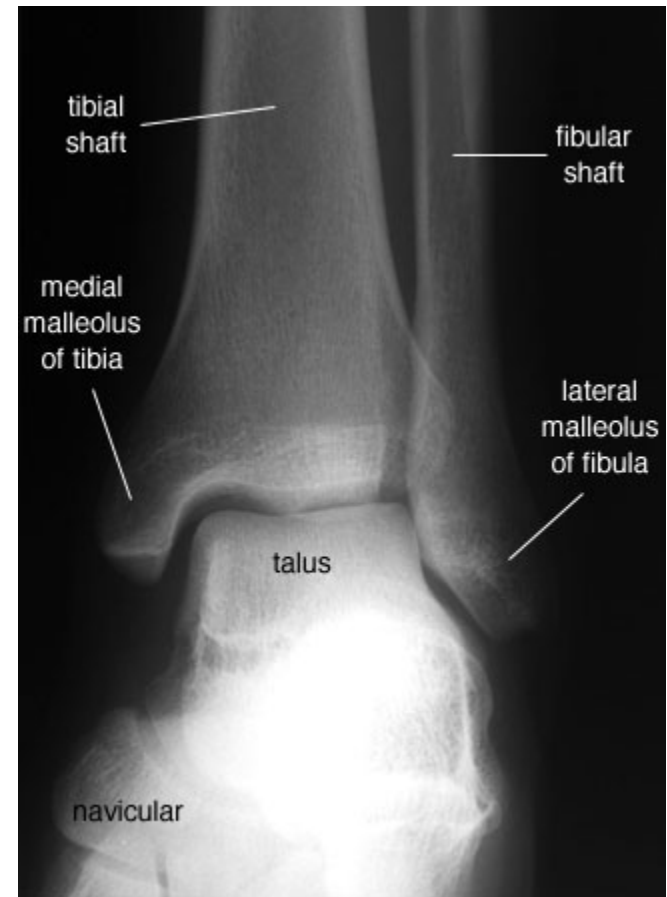
KNEE-AP VIEW



KNEE-LATERAL VIEW



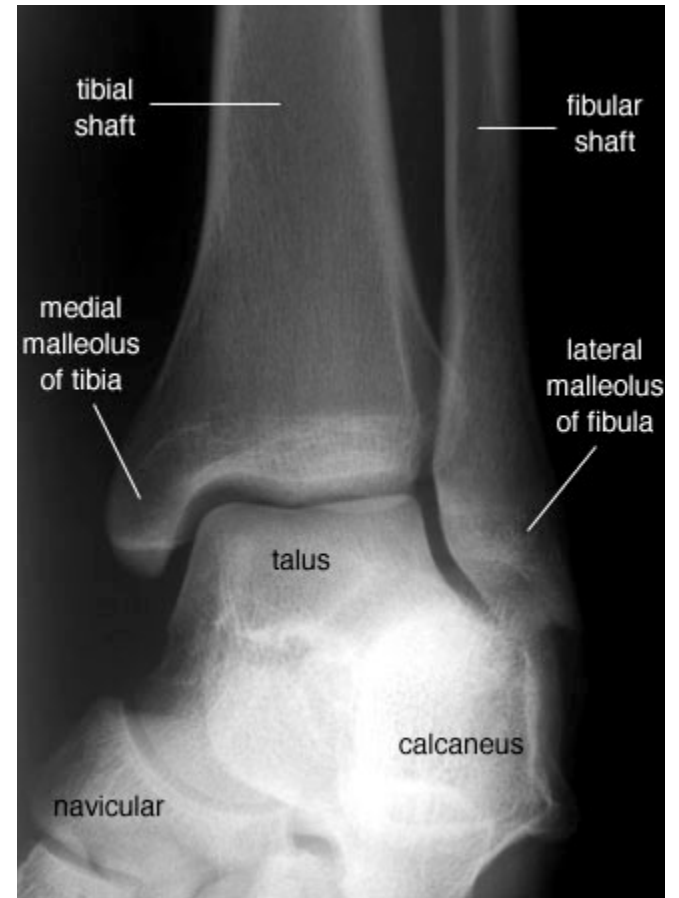
ANKLE-AP VIEW



ANKLE-LATERAL VIEW



ANKLE-MORTISE VIEW



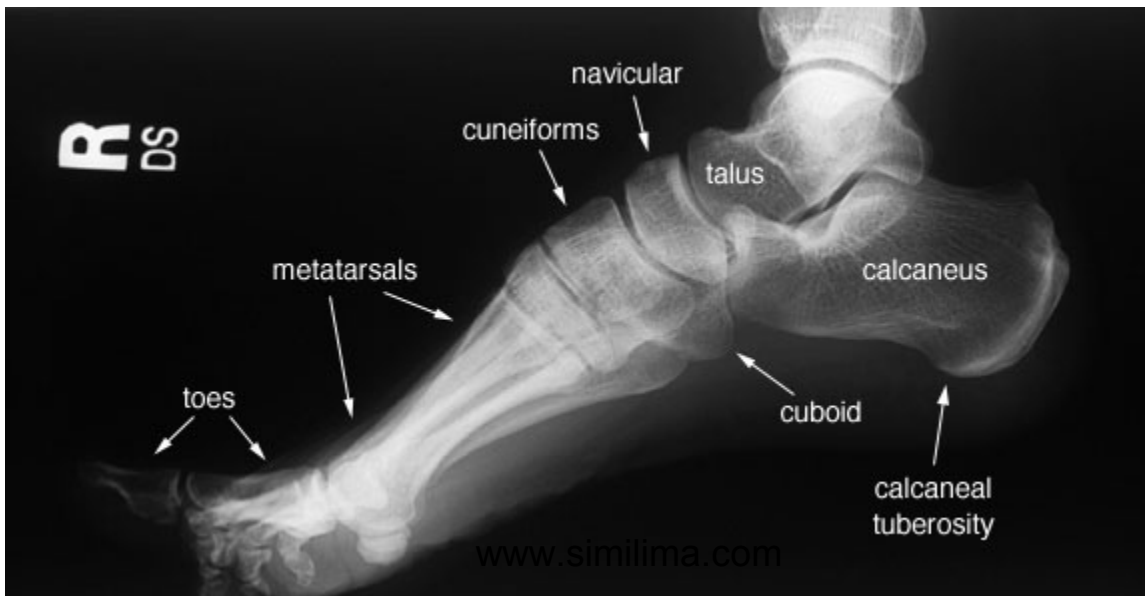


FOOT-AP VIEW





FOOT-LATERAL VIEW

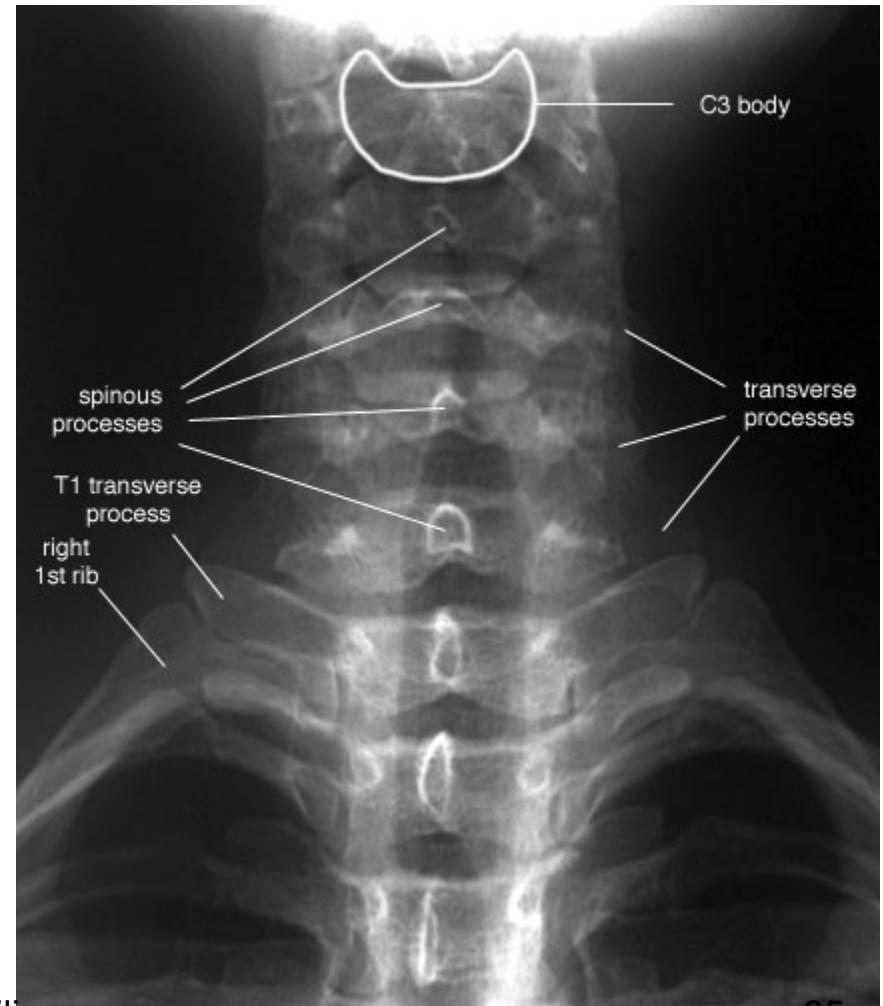




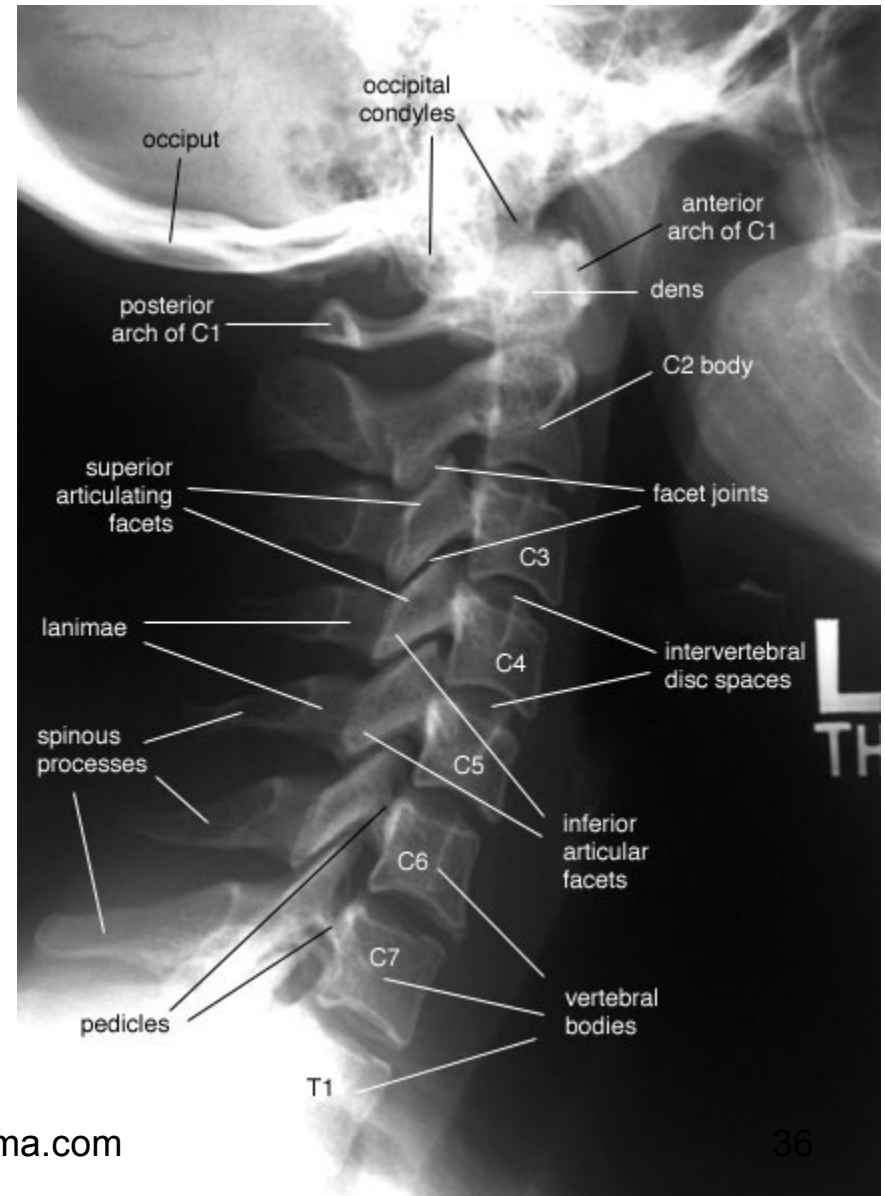
FOOT-OBLIQUE VIEW



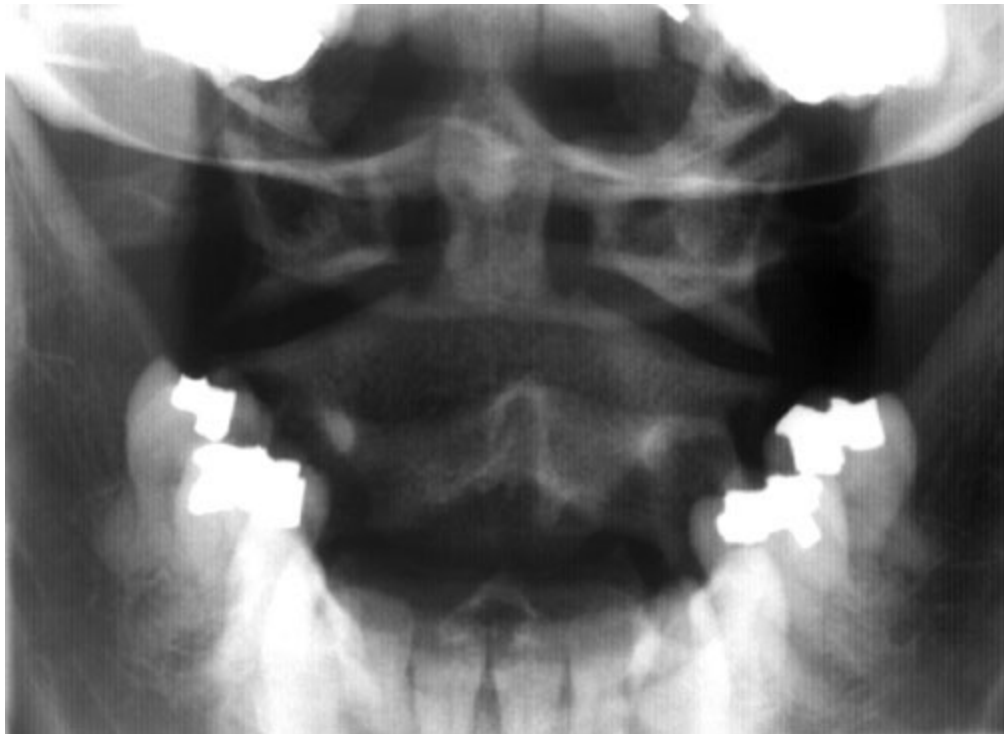
CERVICAL SPINE-AP VIEW



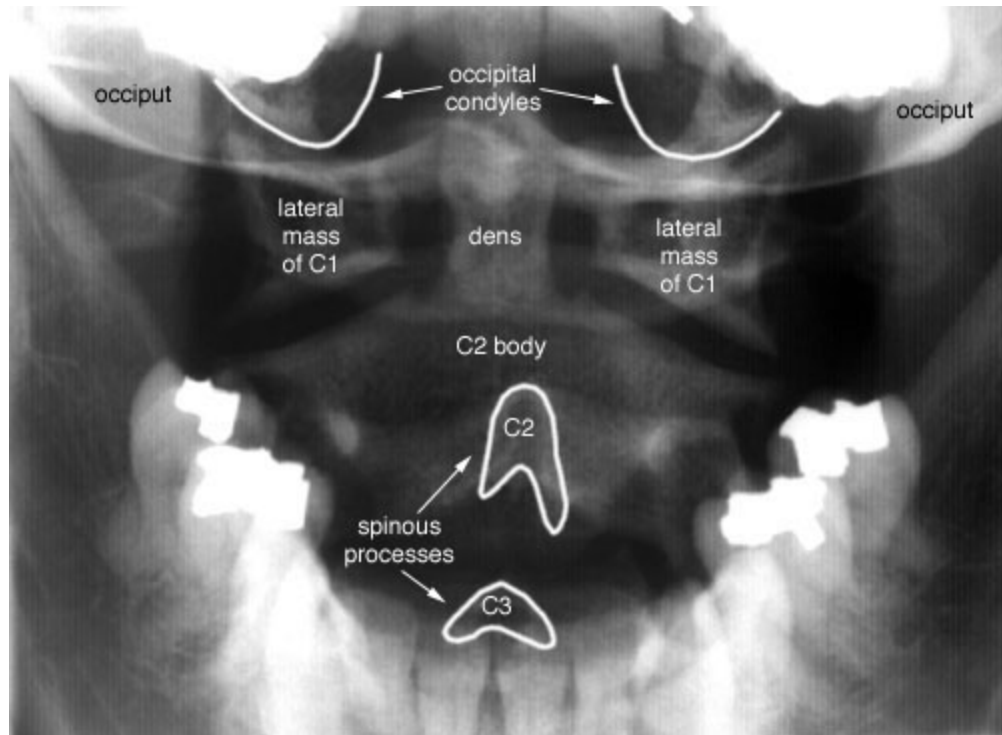
CERVICAL SPINE-LATERAL VIEW



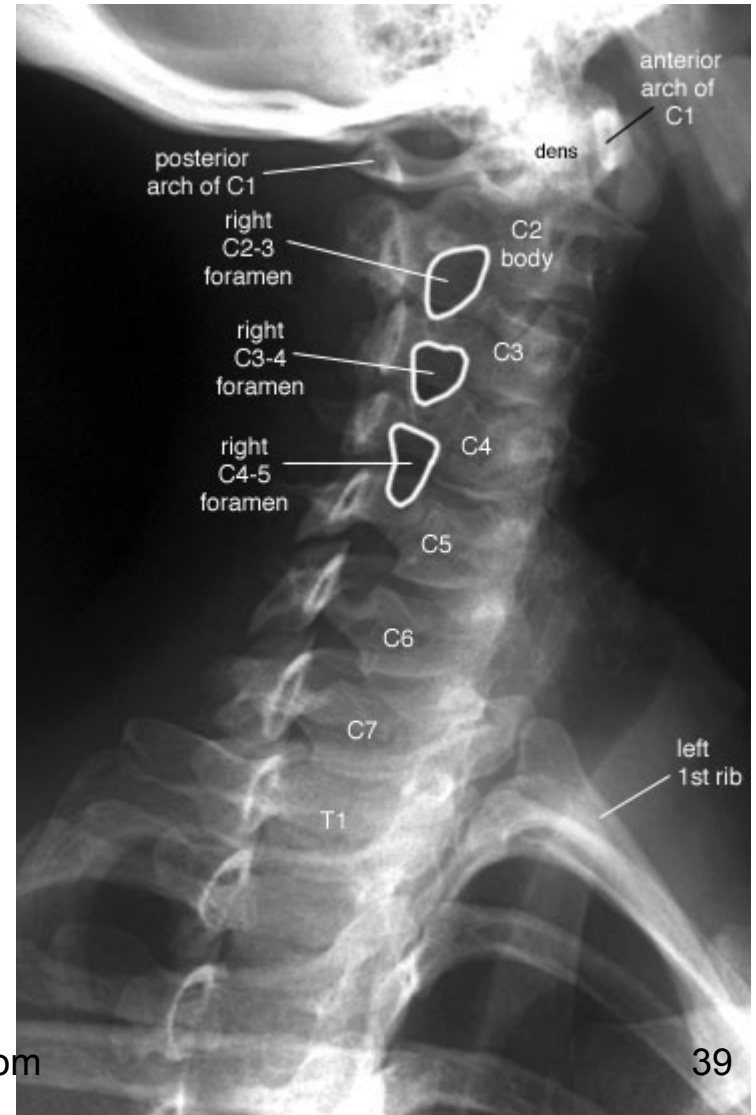
Cervical Spine -- Open Mouth (Dens) View



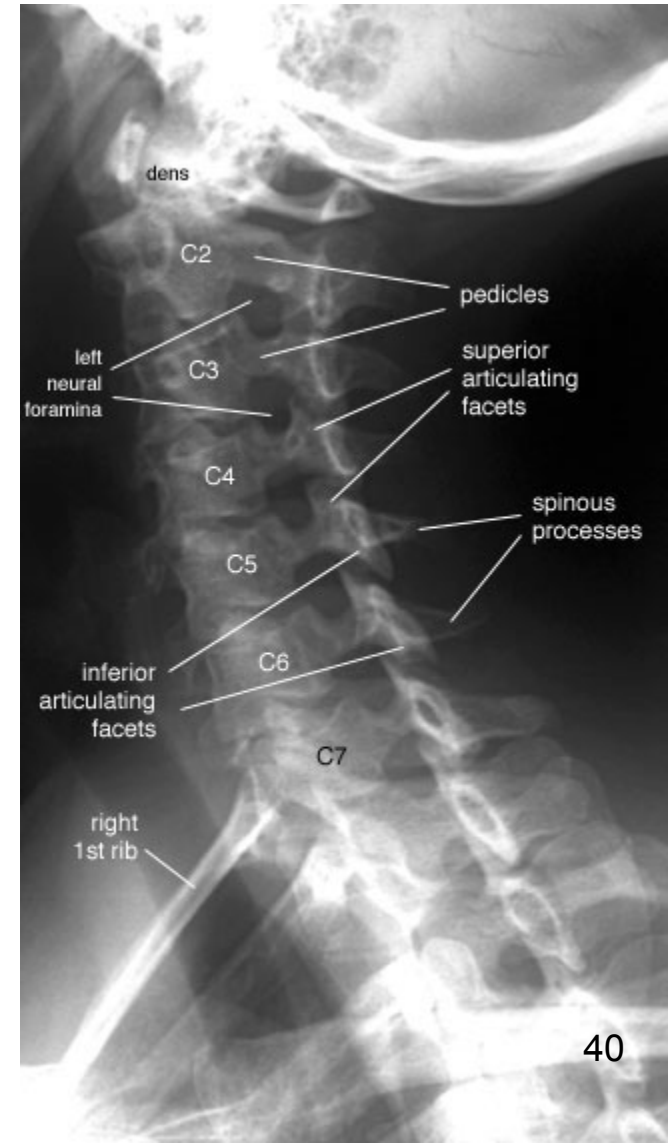
Cervical Spine -- Open Mouth (Dens) View



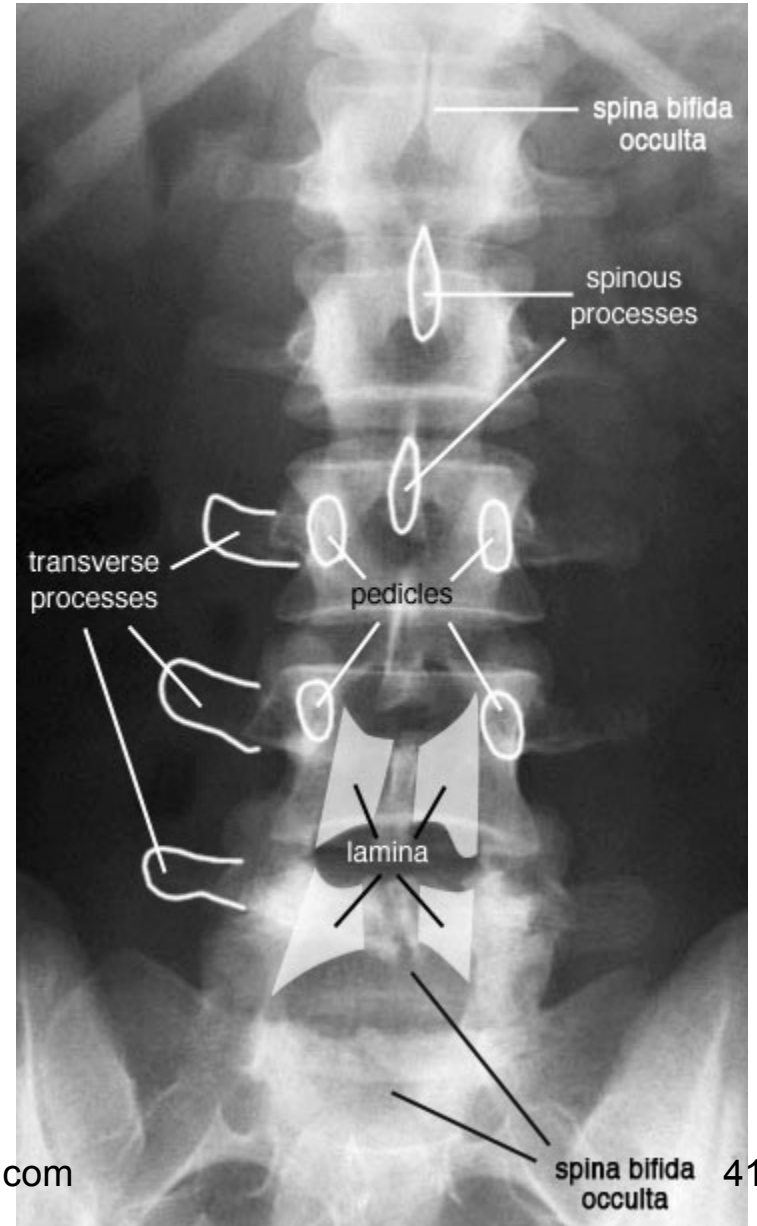
CERVICAL SPINE-RIGHT ANTERIOR OBLIQUE VIEW



CERVICAL SPINE-LEFT ANTERIOR OBLIQUE VIEW



LUMBAR SPINE –AP VIEW





LUMBAR SPINE- LATERAL VIEW

