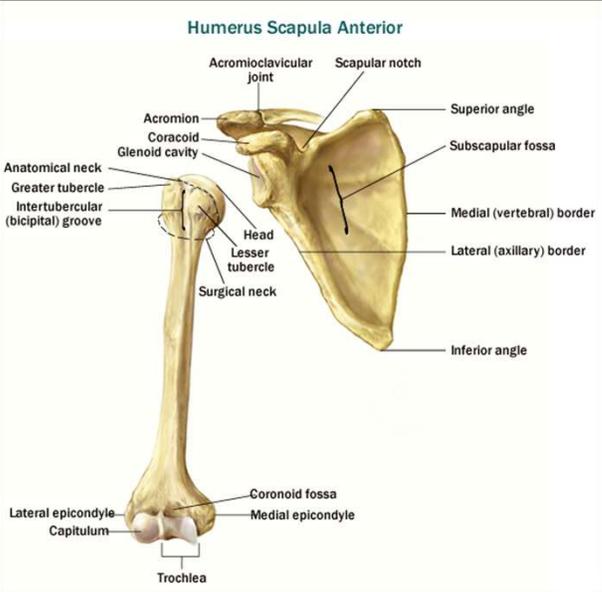


Reading Hospital
School of Health Sciences
 Medical Imaging Program
 MI 238: Clinical Seminar III
 2022
 Humerus, Shoulder – Scapula/Clavicle/AC & SC Joints
 Merrill's Volume I-Chapter 6

1

***Humerus**

Humerus Scapula Anterior

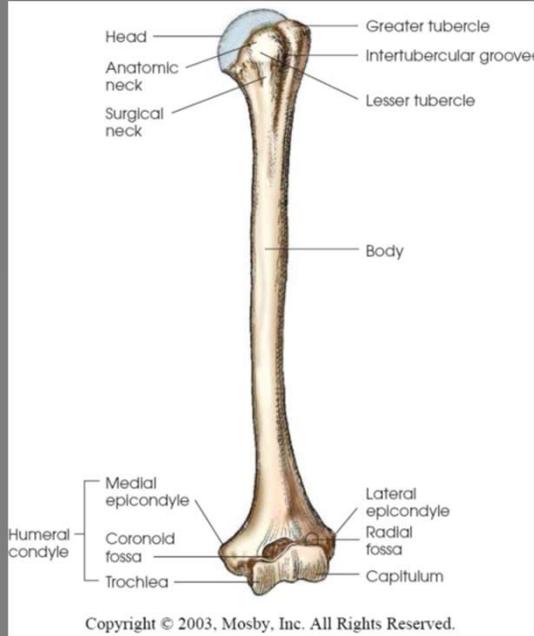
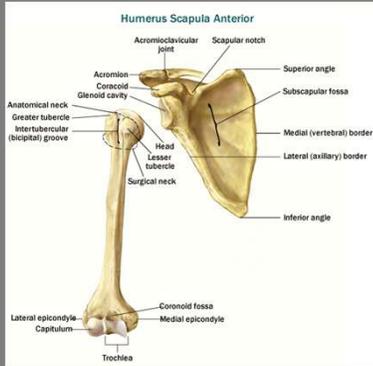


Labels for Humerus Scapula Anterior:

- Acromioclavicular joint
- Scapular notch
- Superior angle
- Subscapular fossa
- Medial (vertebral) border
- Lateral (axillary) border
- Inferior angle
- Acromion
- Coracoid
- Glenoid cavity
- Anatomical neck
- Greater tubercle
- Intertubercular (bicipital) groove
- Head
- Lesser tubercle
- Surgical neck
- Coronoid fossa
- Medial epicondyle
- Lateral epicondyle
- Capitulum
- Trochlea

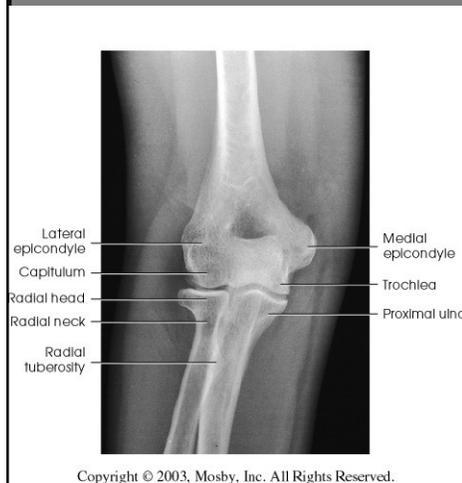
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AP Humerus



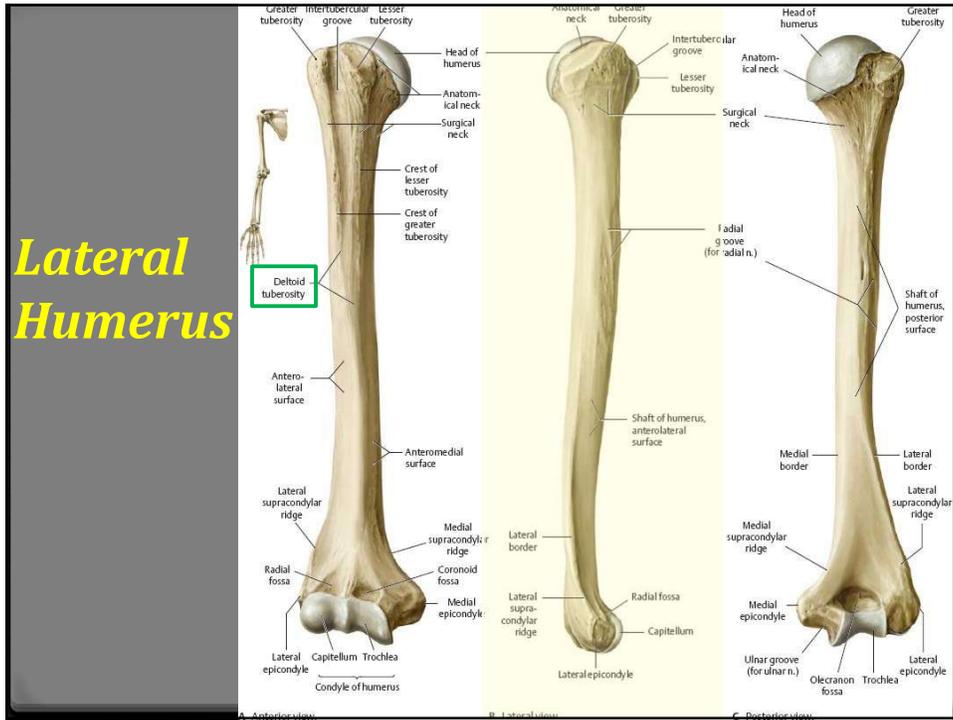
3

Distal Humerus Articulations



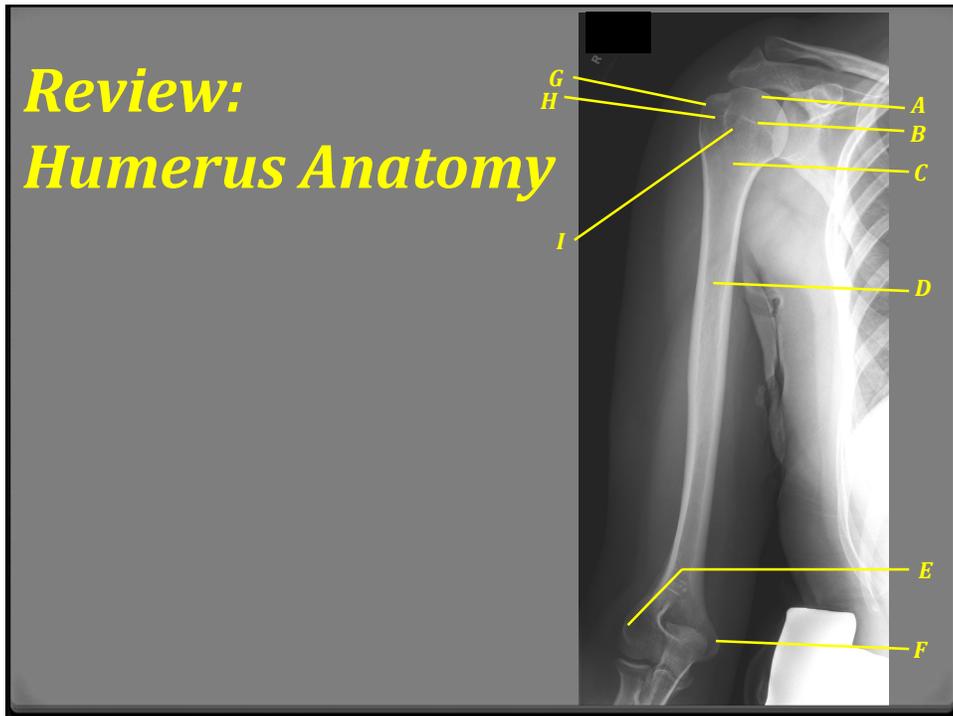
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Lateral Humerus



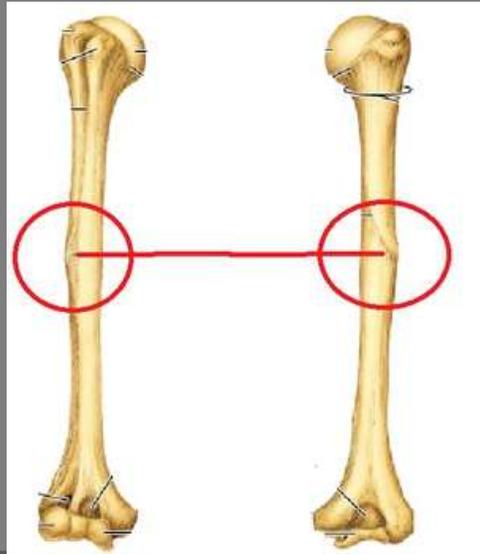
5

Review: Humerus Anatomy



6

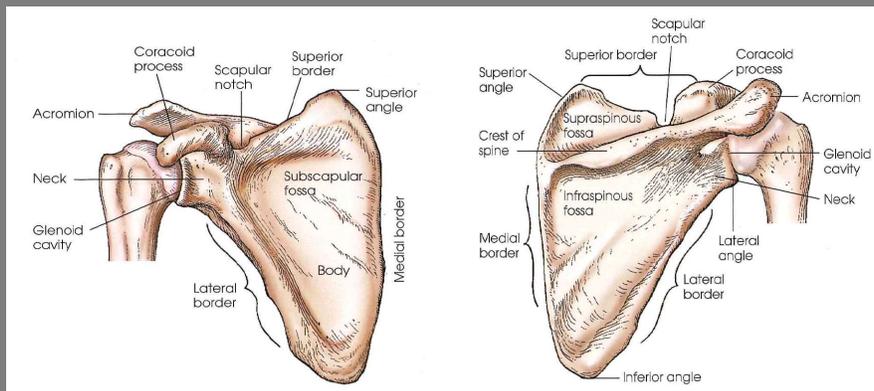
One more thing to know about the Humerus....



Deltoid Tuberosity

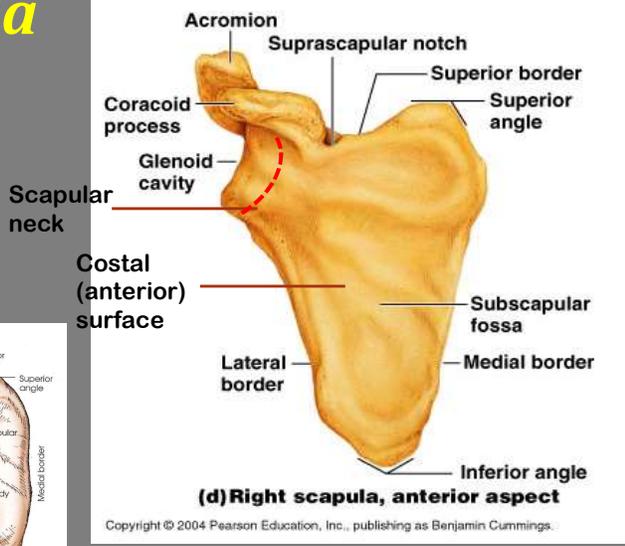
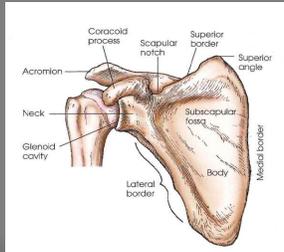
7

***Shoulder



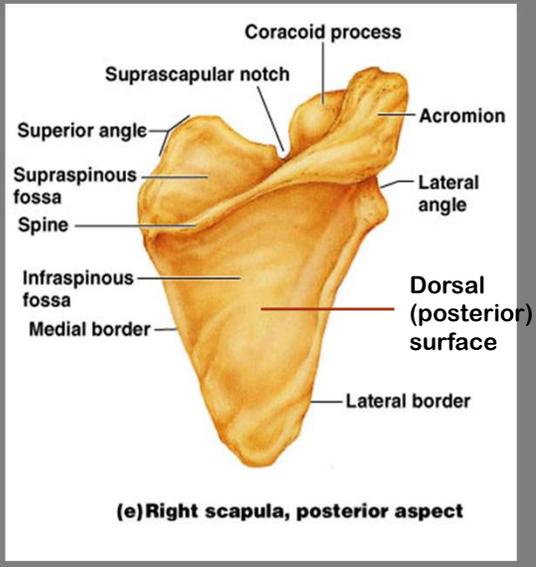
8

*Scapula



9

*Scapula

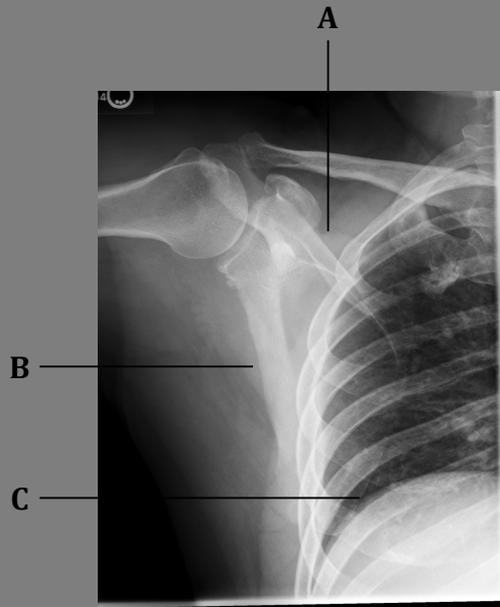


10

*Scapula

Three Borders:

- A. Superior
- B. Lateral (axillary)
- C. Medial (vertebral)



11

Rotation



Good Rotation



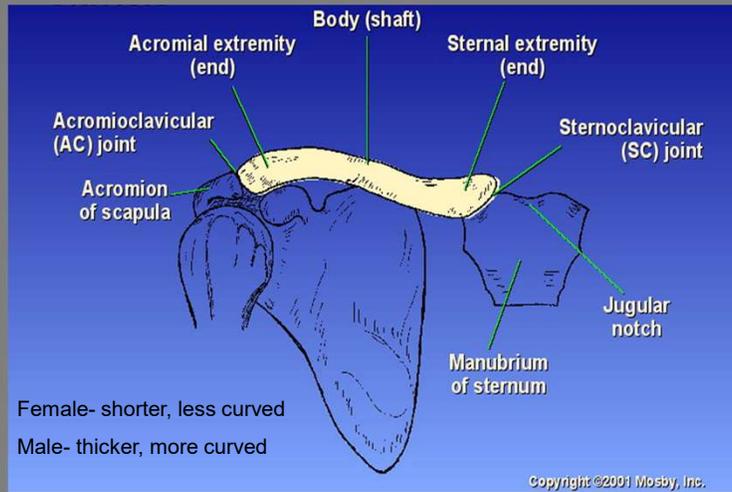
Under Rotation
Medial Border (vertebral)
into the thorax



Over Rotation
Lateral Border (axillary)
into the thorax

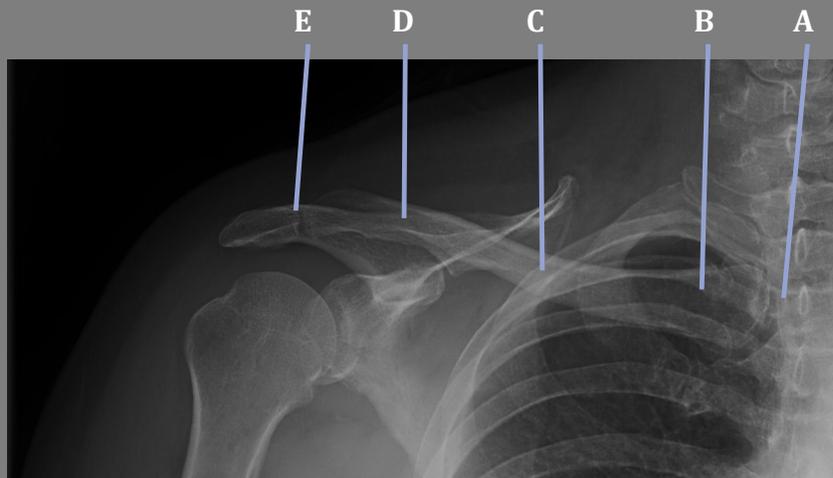
12

*Clavicle



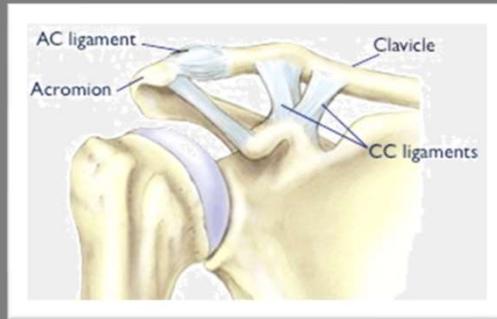
13

*Clavicle



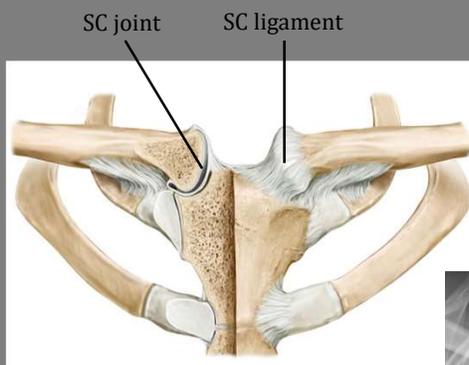
14

**Acromioclavicular Joint*



15

**Sternoclavicular Joint*



16

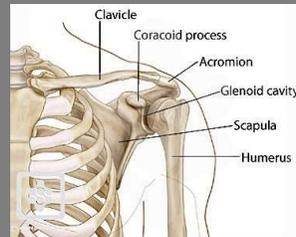
****Joints of the Shoulder Girdle***

Joint Classification:

- *Scapulohumeral, Acromioclavicular, Sternoclavicular*
- *Synovial or Diarthrosis or Diarthrodial*

Joint Movement

- *Scapulohumeral – Ball and Socket*
- *Acromioclavicular – Gliding*
- *Sternoclavicular – Double Gliding*



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Rotator Cuff and Insertion Points

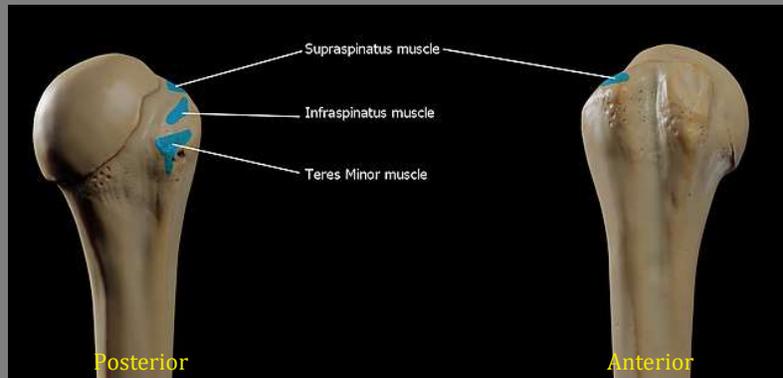
Supraspinatus
Infraspinatus
Teres Minor
Subscapularis

18

Greater Tubercle

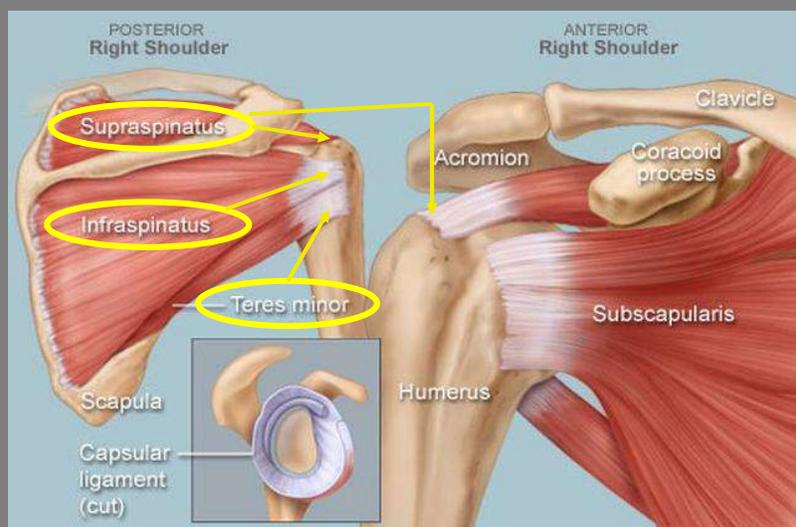
Has 3 flattened impressions for muscle insertions

- Anterior: supraspinatus muscle
- Middle: infraspinatus muscle
- Posterior: Teres Minor



19

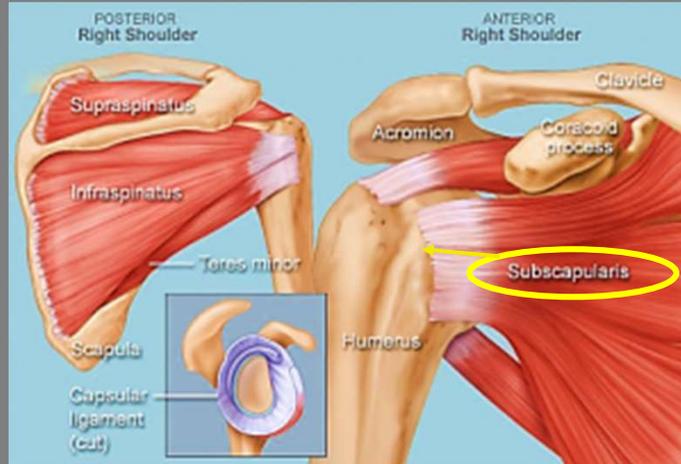
Rotator Cuff Insertion Points on Greater Tubercle



20

Lesser Tubercle

Subscapular muscle inserts at the lesser tubercle



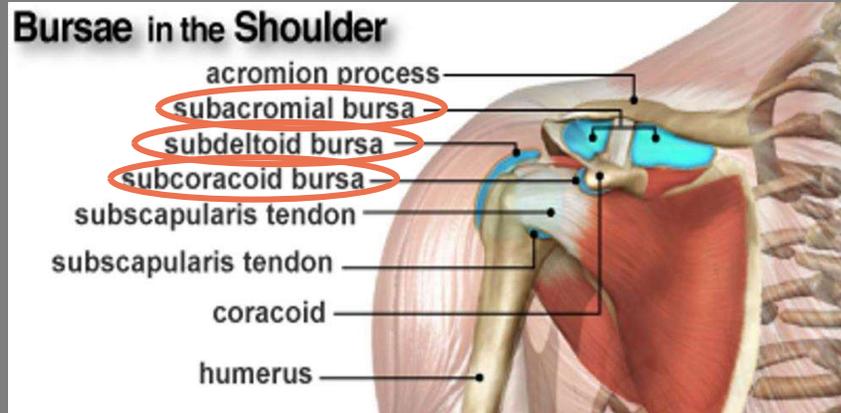
21

One more thing
to talk about...

22

Bursae

Small, synovial fluid-filled sacs that relieve pressure and reduce friction in tissue



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