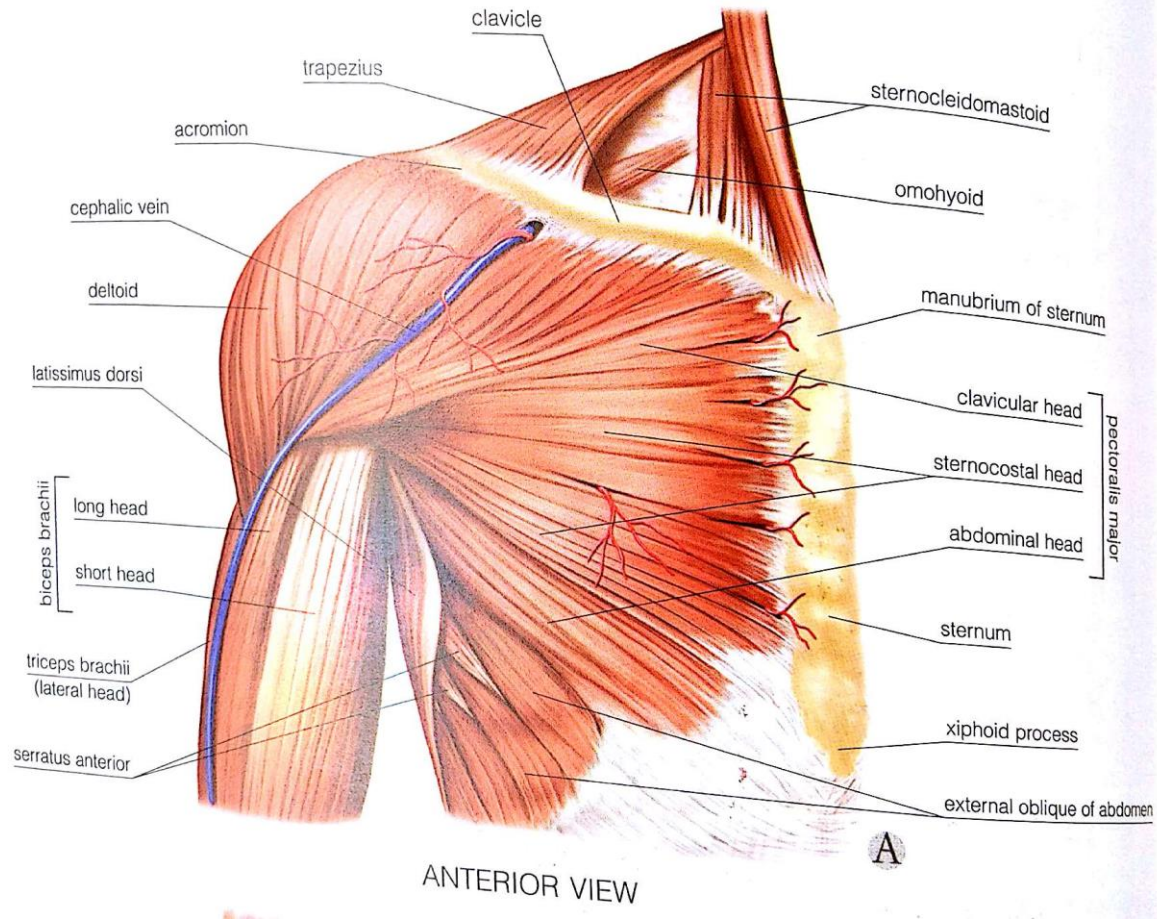
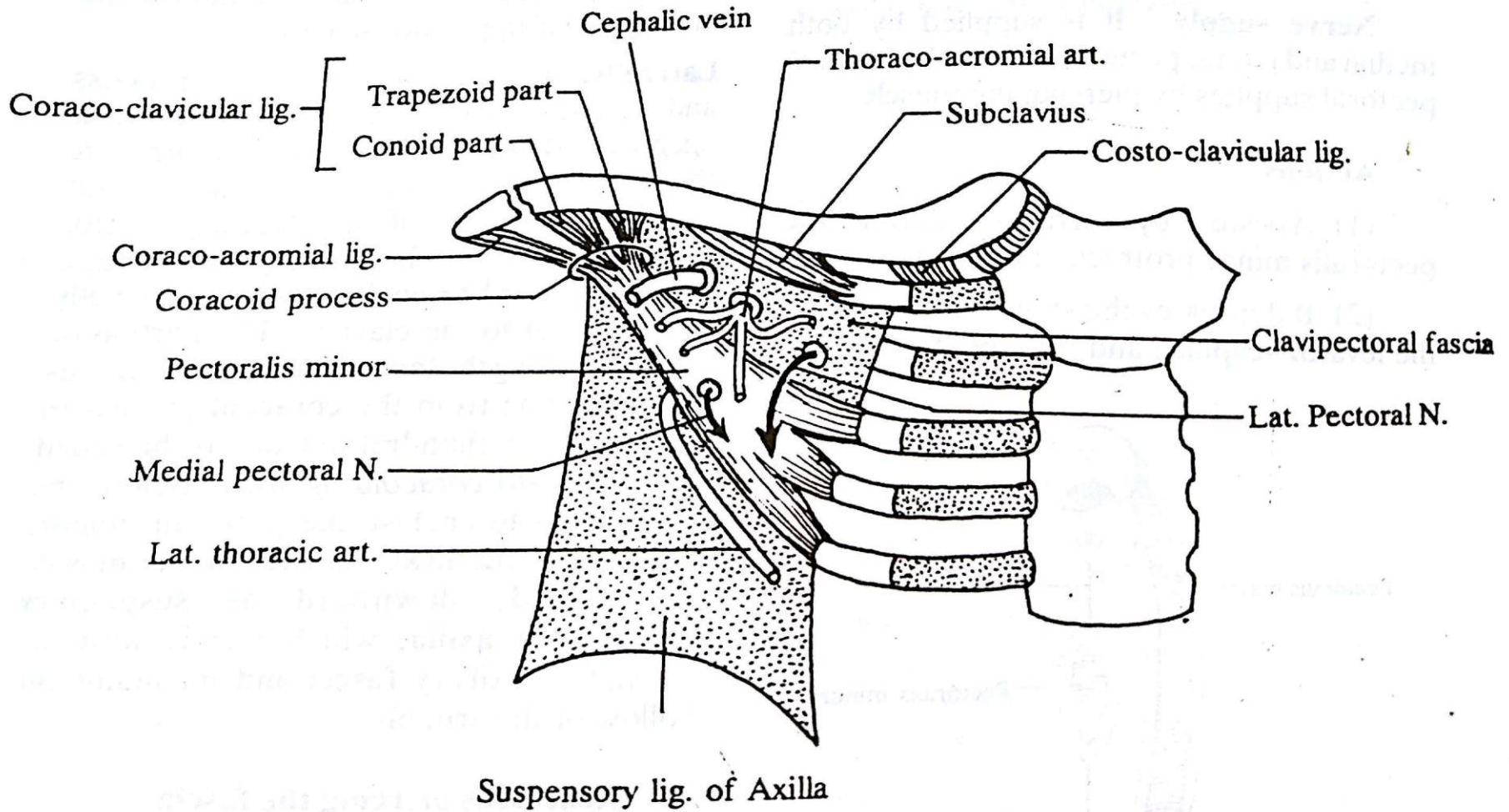
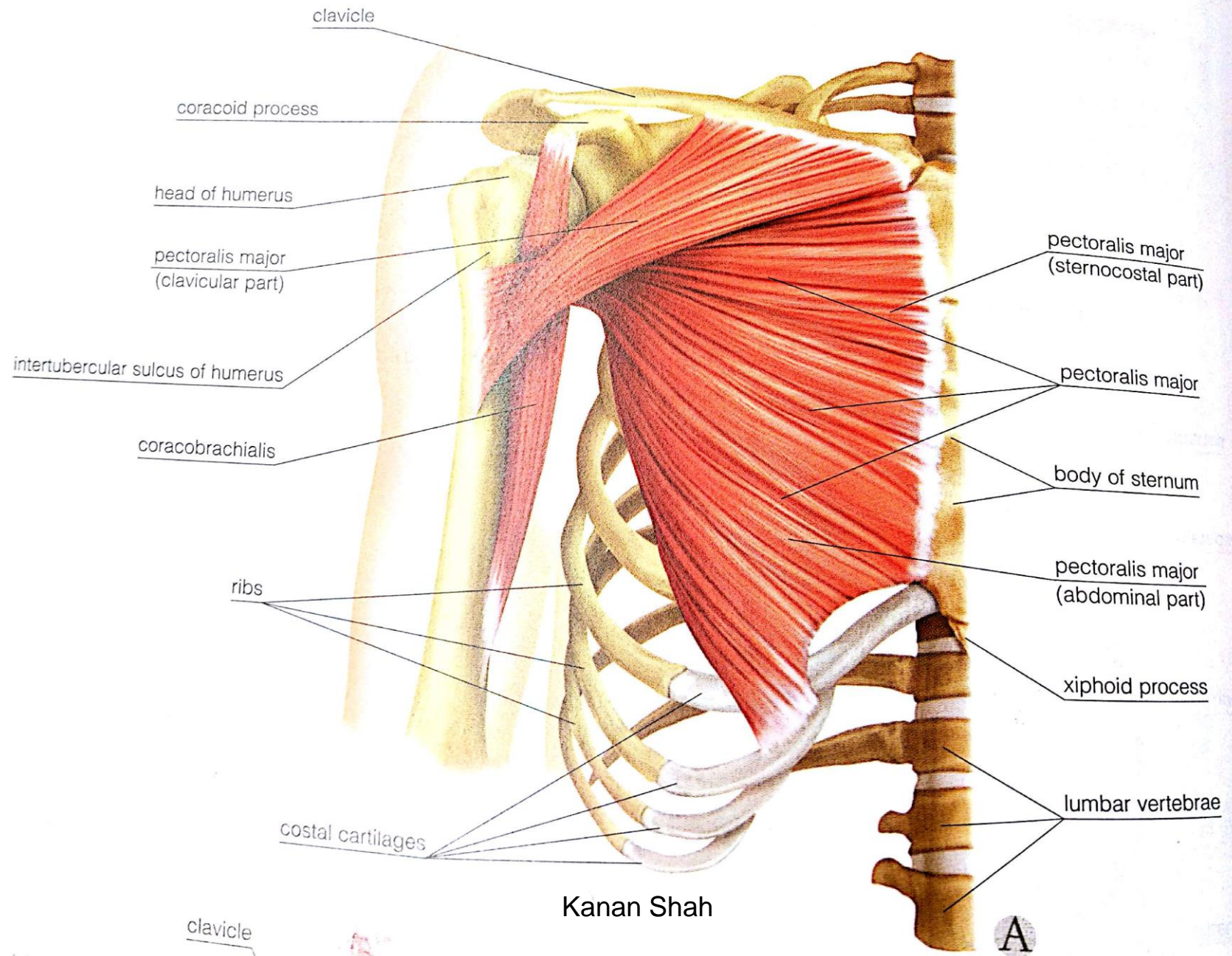


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clavicle

coracoid process

head of humerus

pectoralis major  
(clavicular part)

intertubercular sulcus of humerus

coracobrachialis

ribs

costal cartilages

pectoralis major  
(sternocostal part)

pectoralis major

body of sternum

pectoralis major  
(abdominal part)

xiphoid process

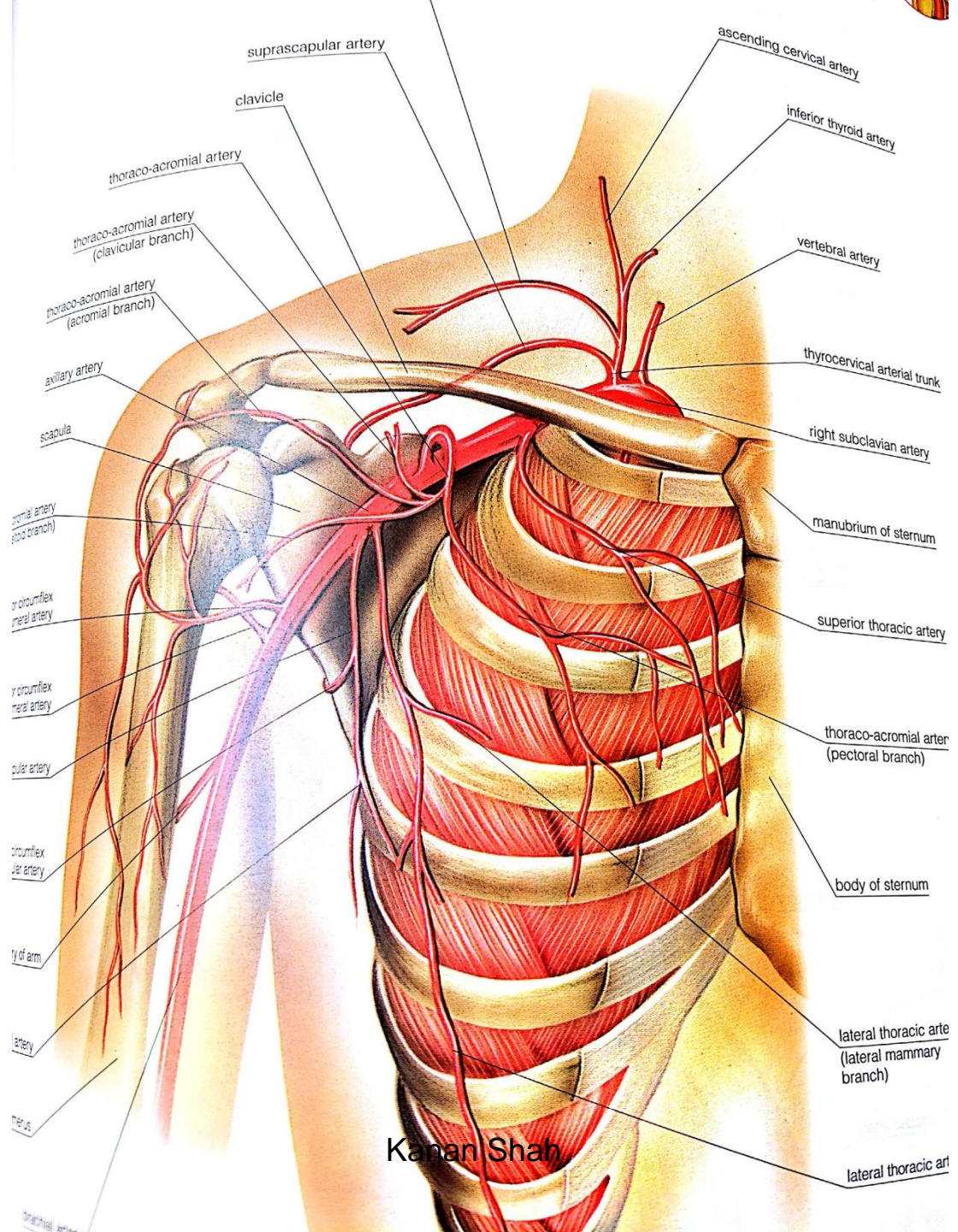
lumbar vertebrae

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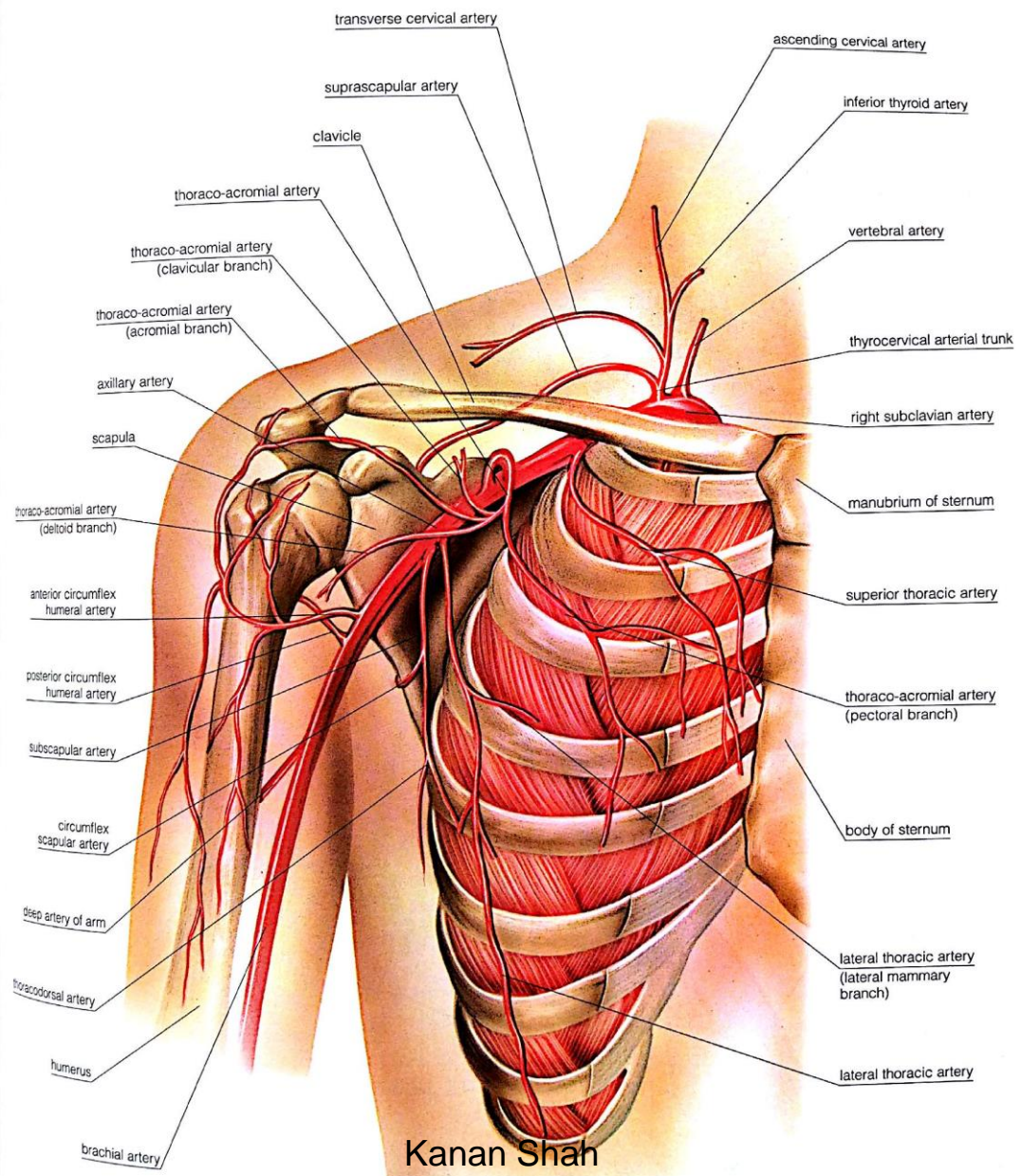
A

clavicle

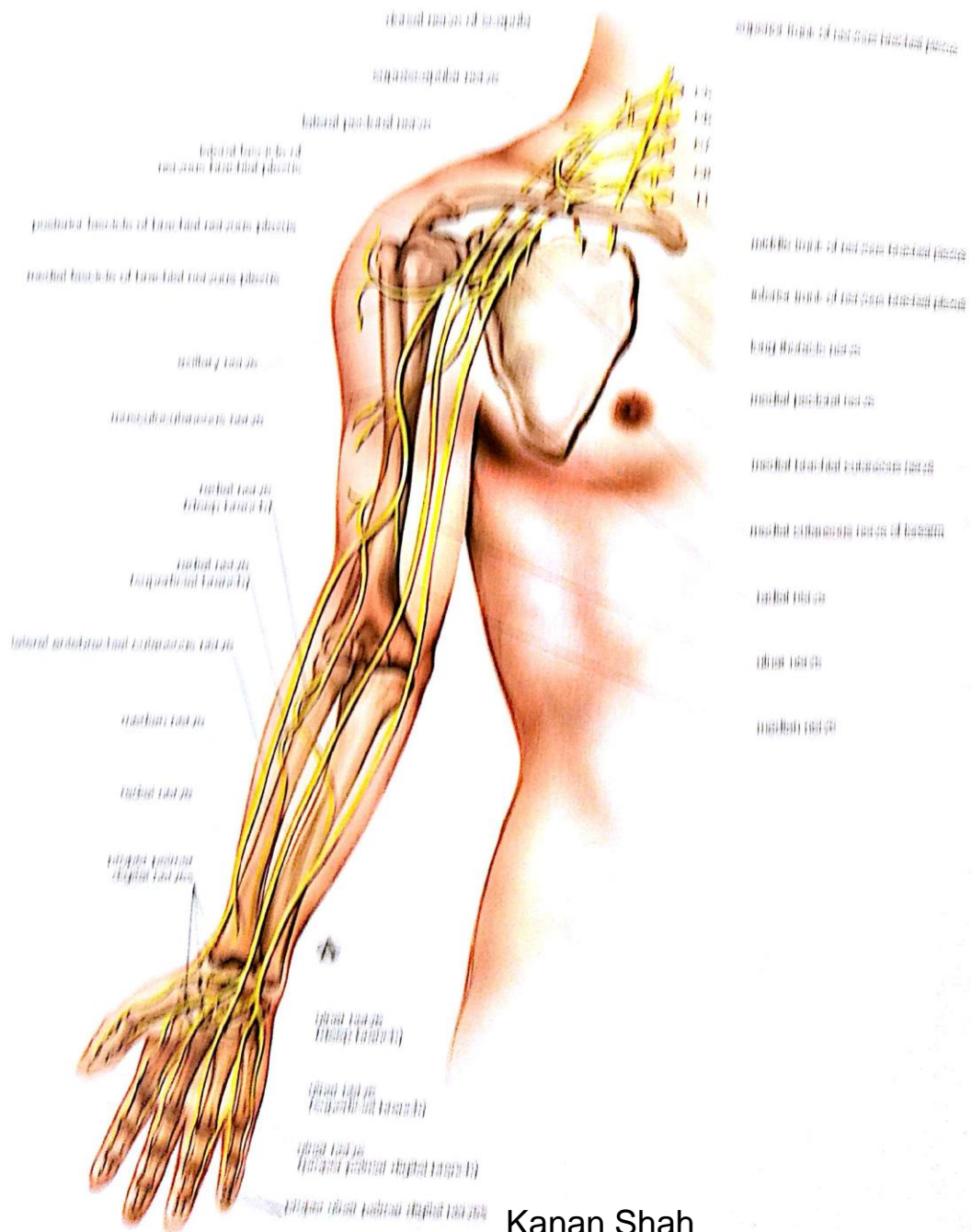
deltoid



Kanan Shah



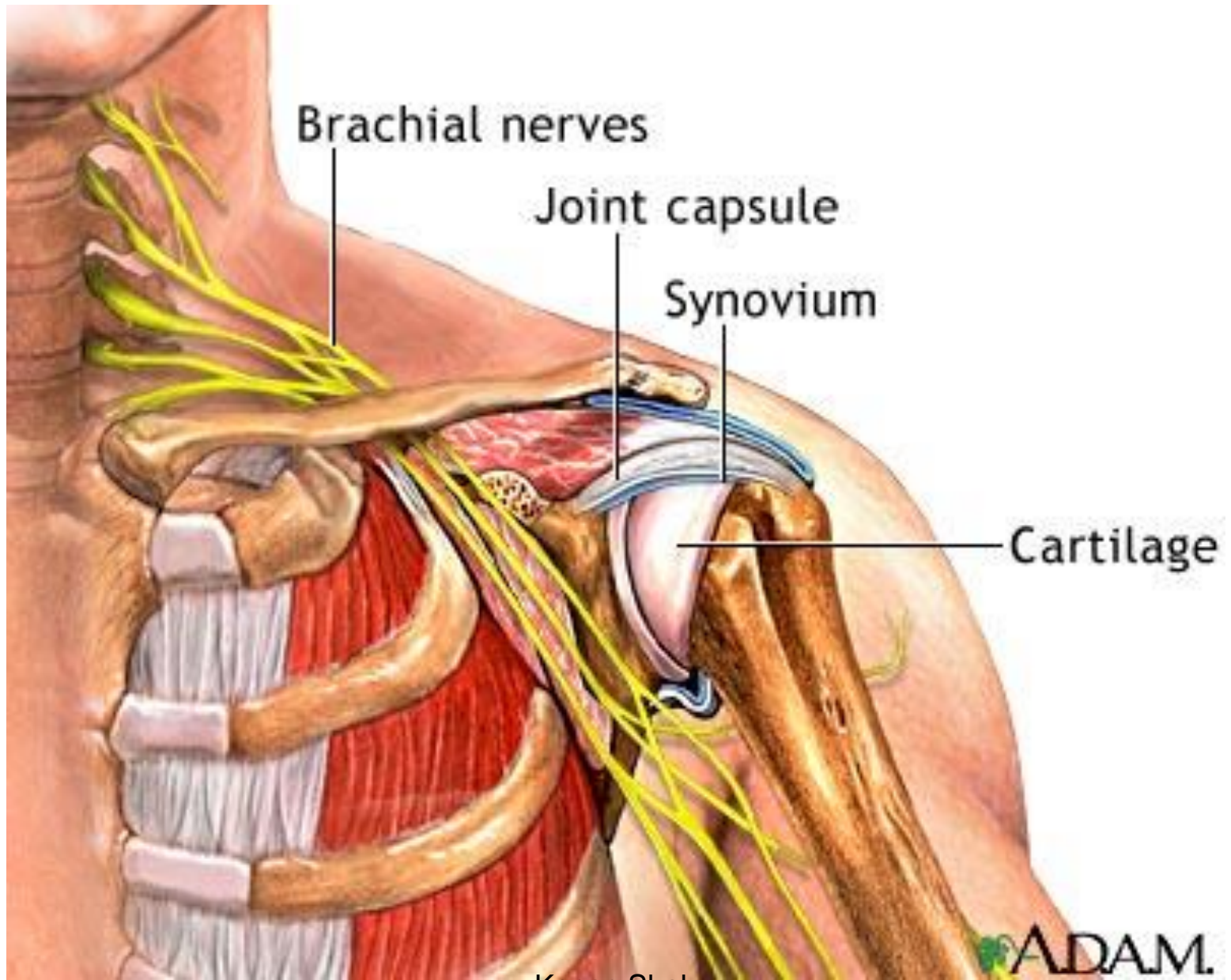
Kanan Shah

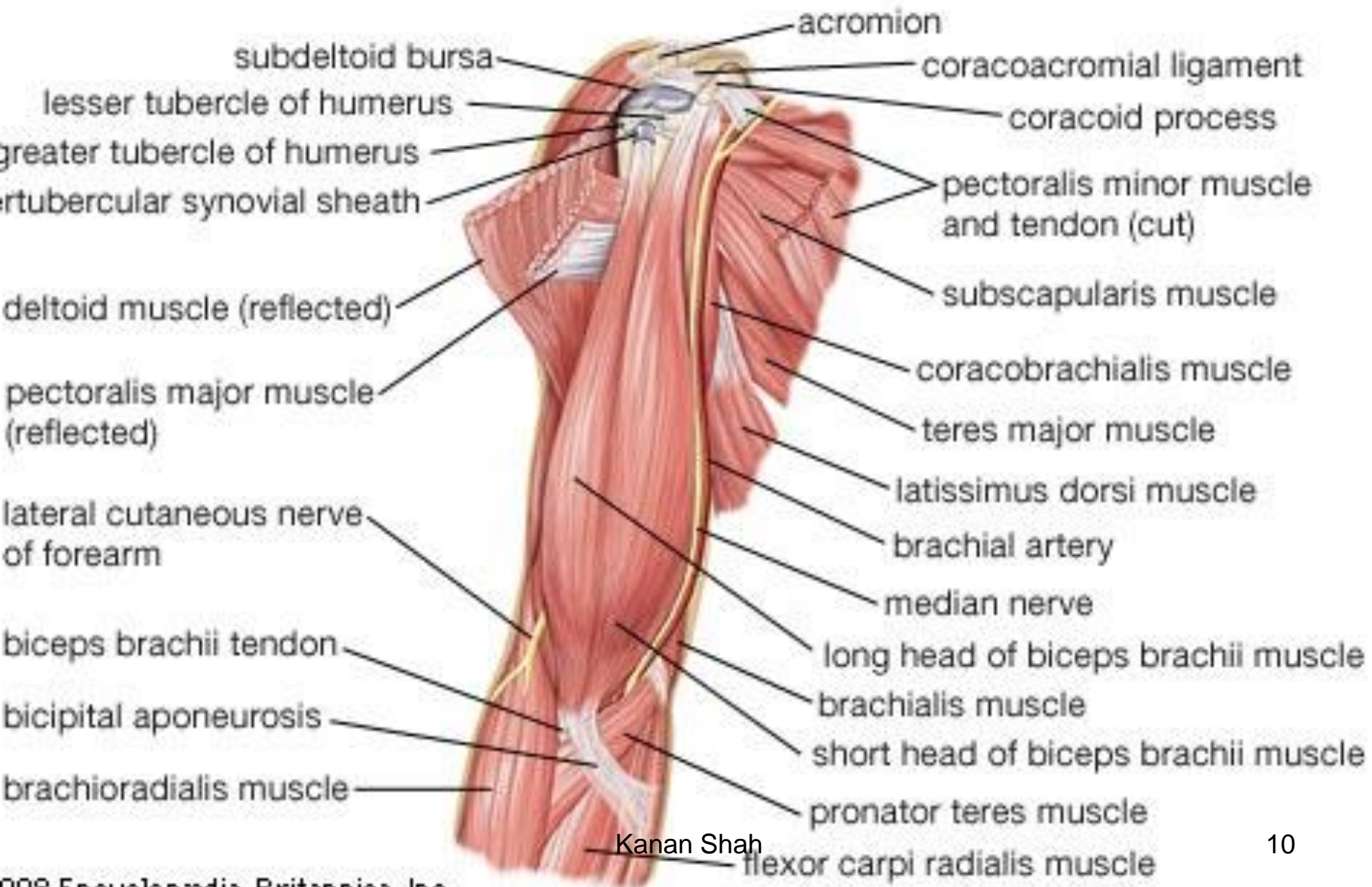


Kanan Shah

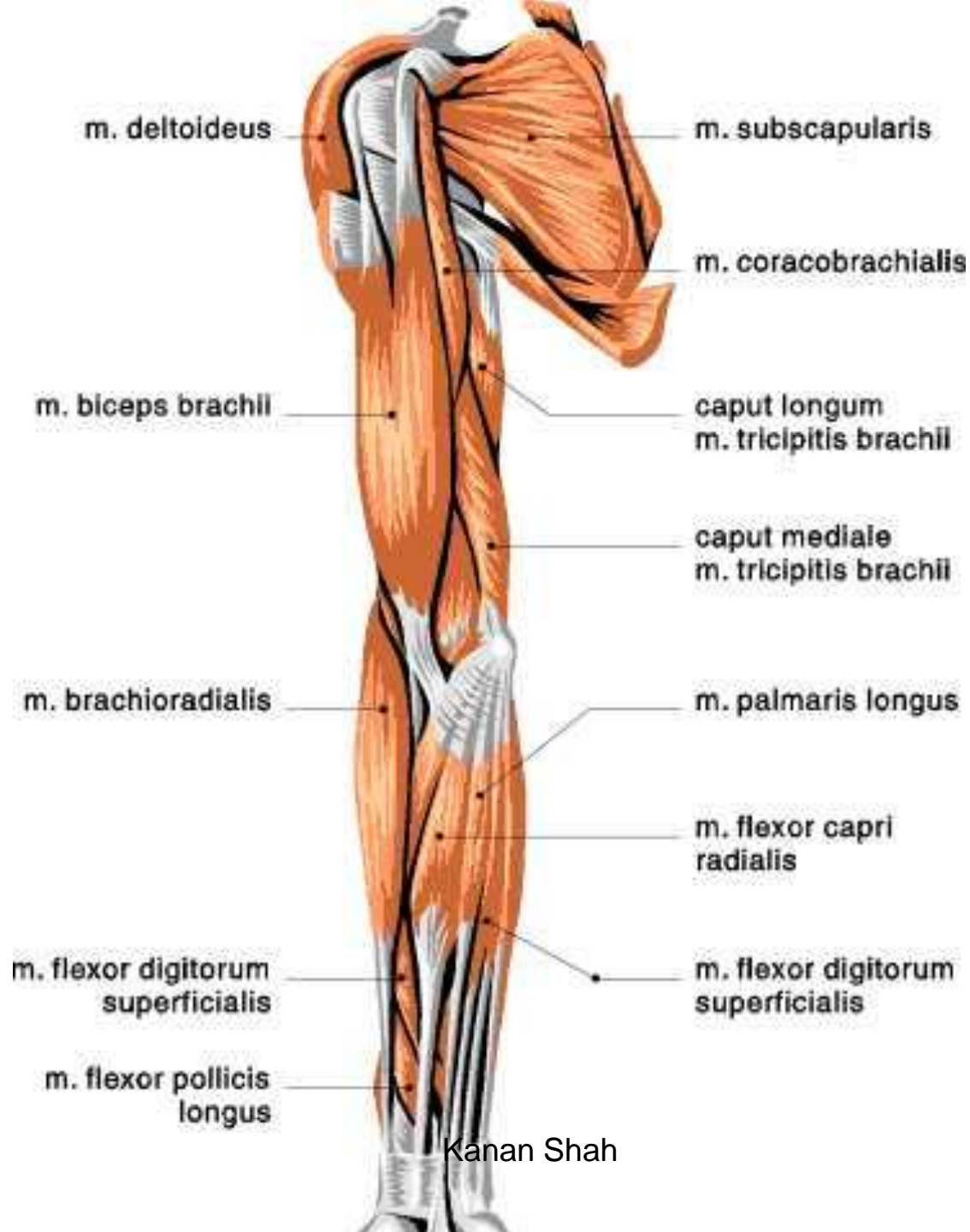


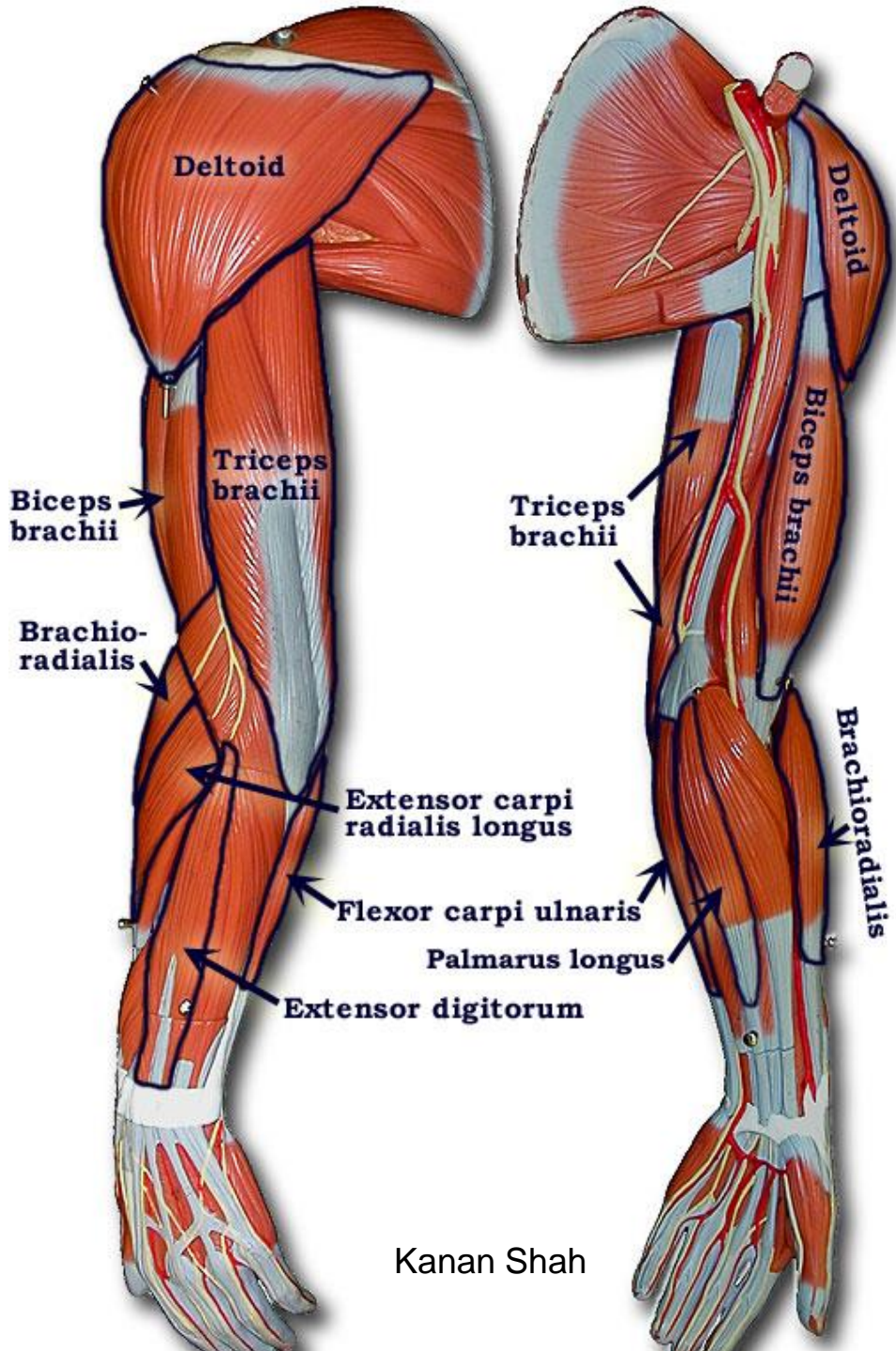




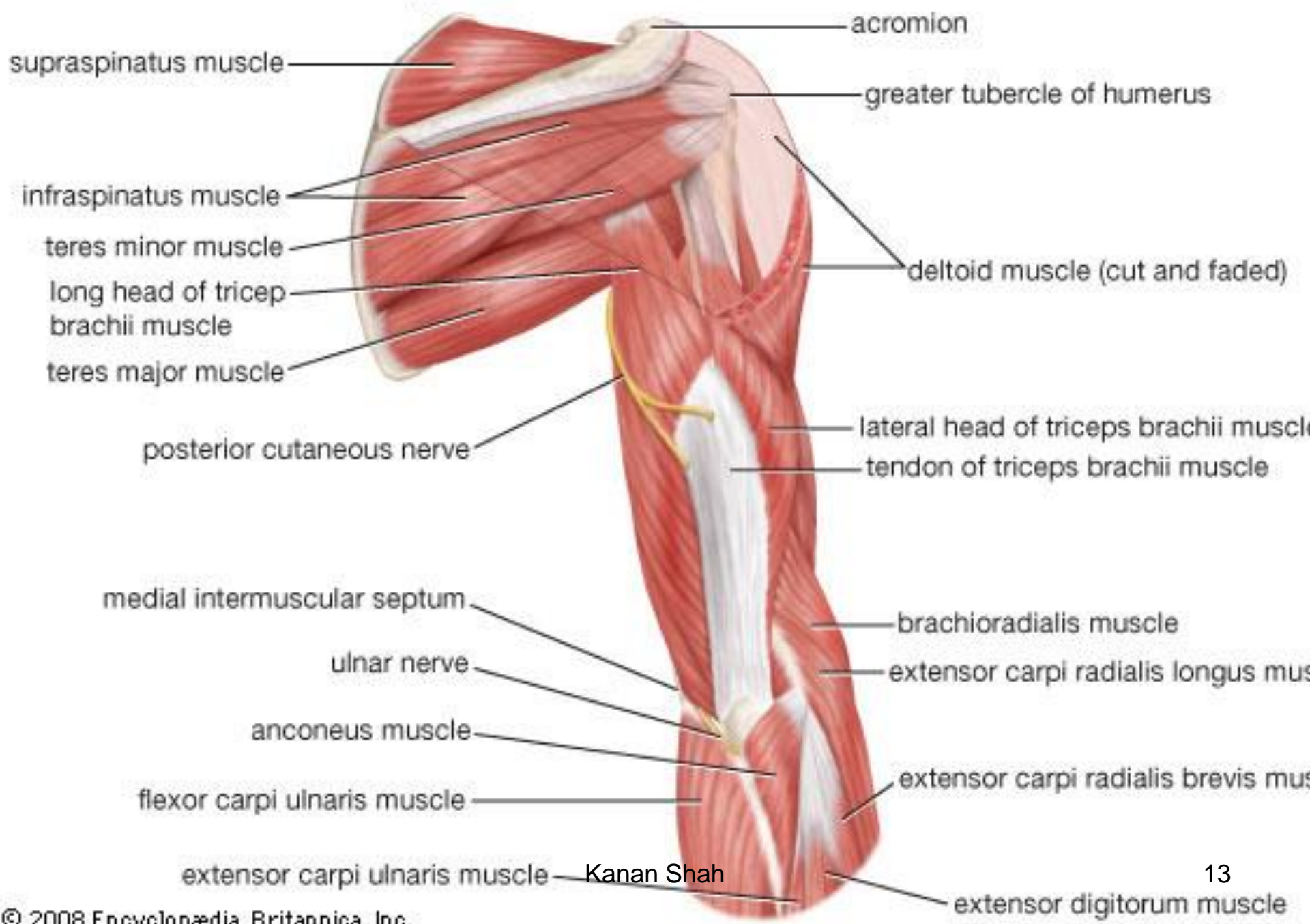


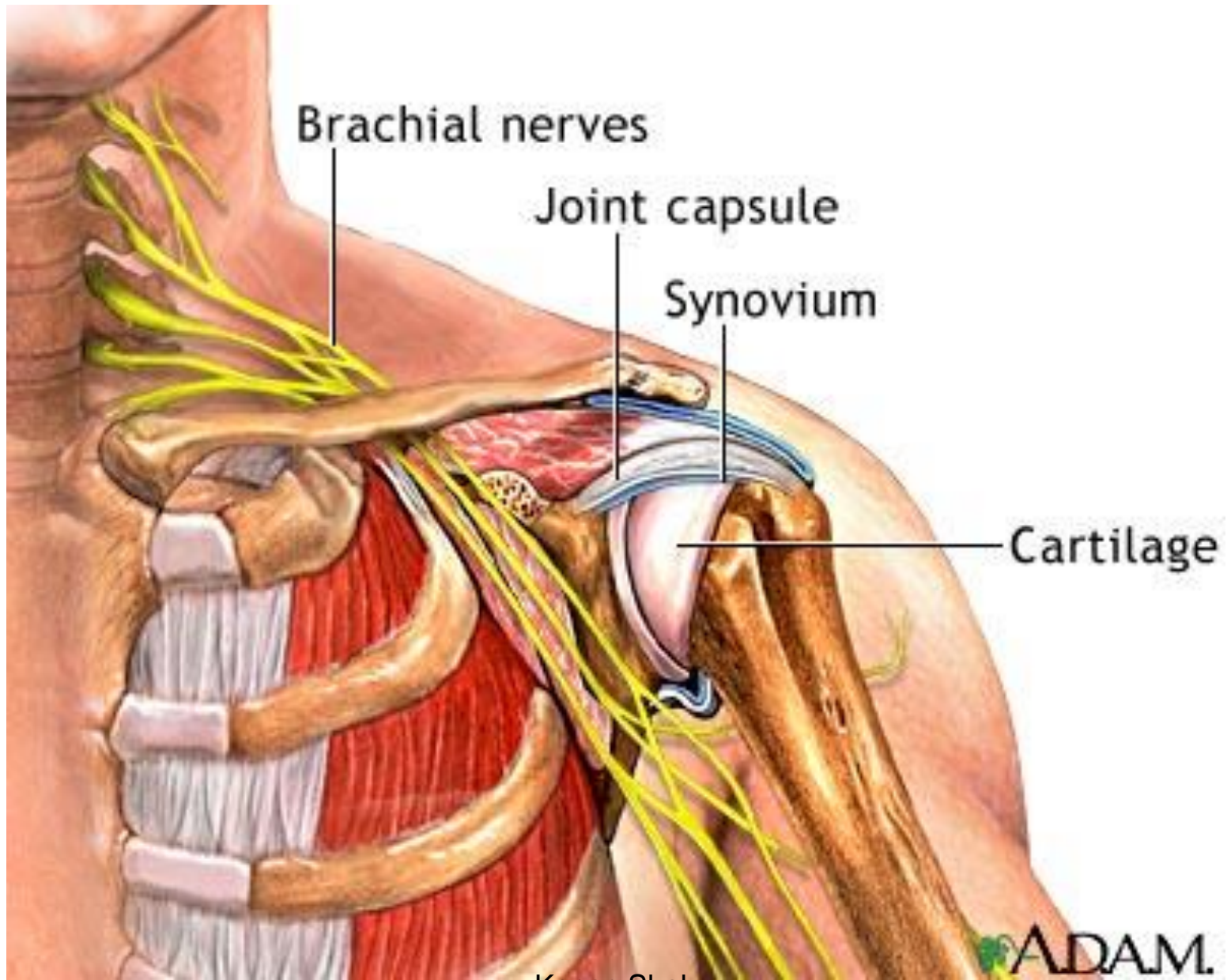
Kanan Shah





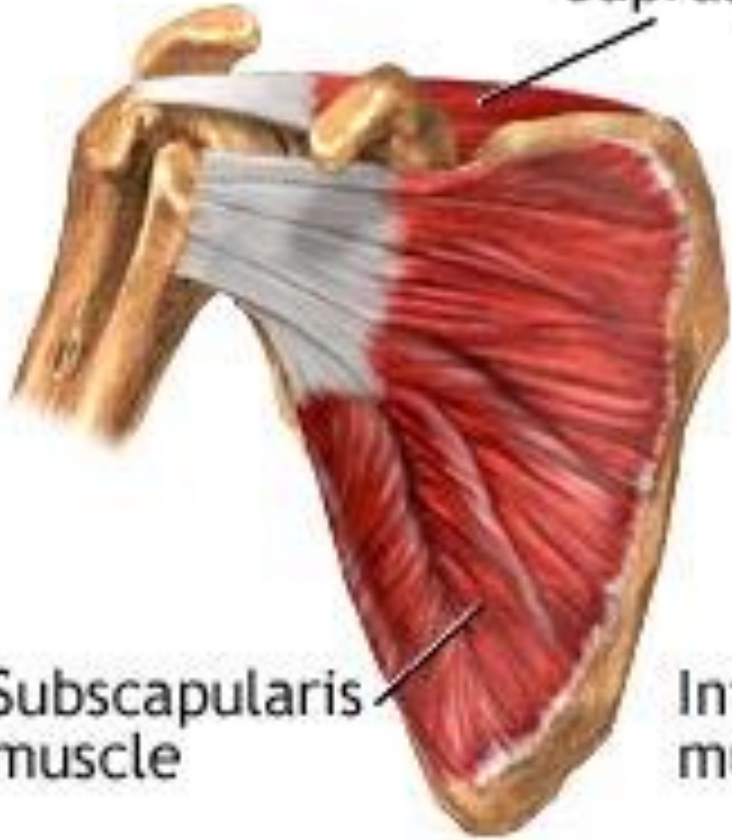
# Posterior muscles of the upper arm





# Rotator cuff muscles

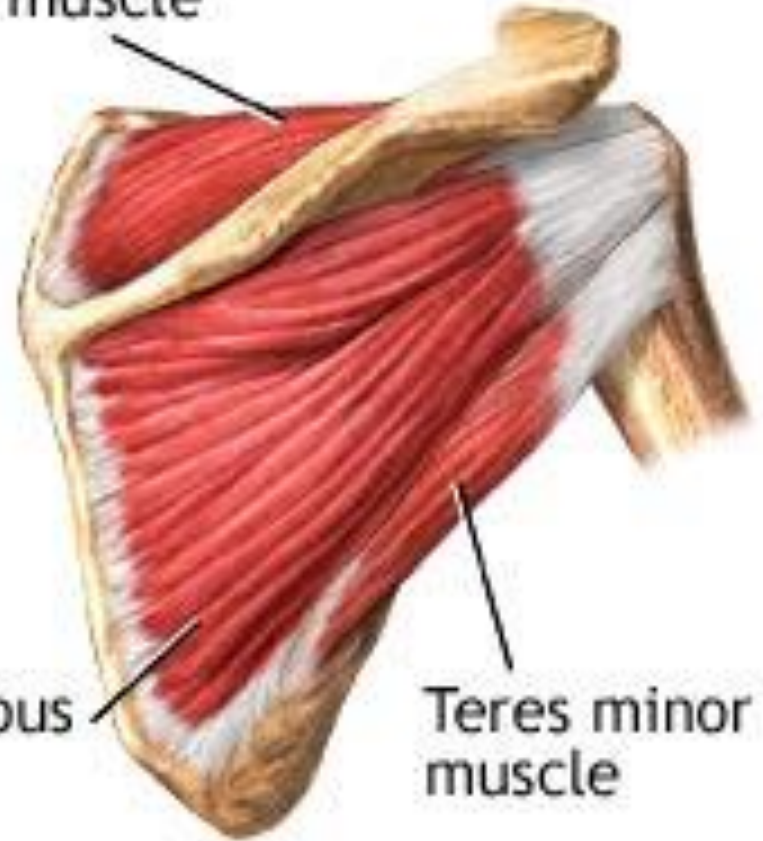
Supraspinatous muscle



Subscapularis muscle

Infraspinatous muscle

Anterior shoulder

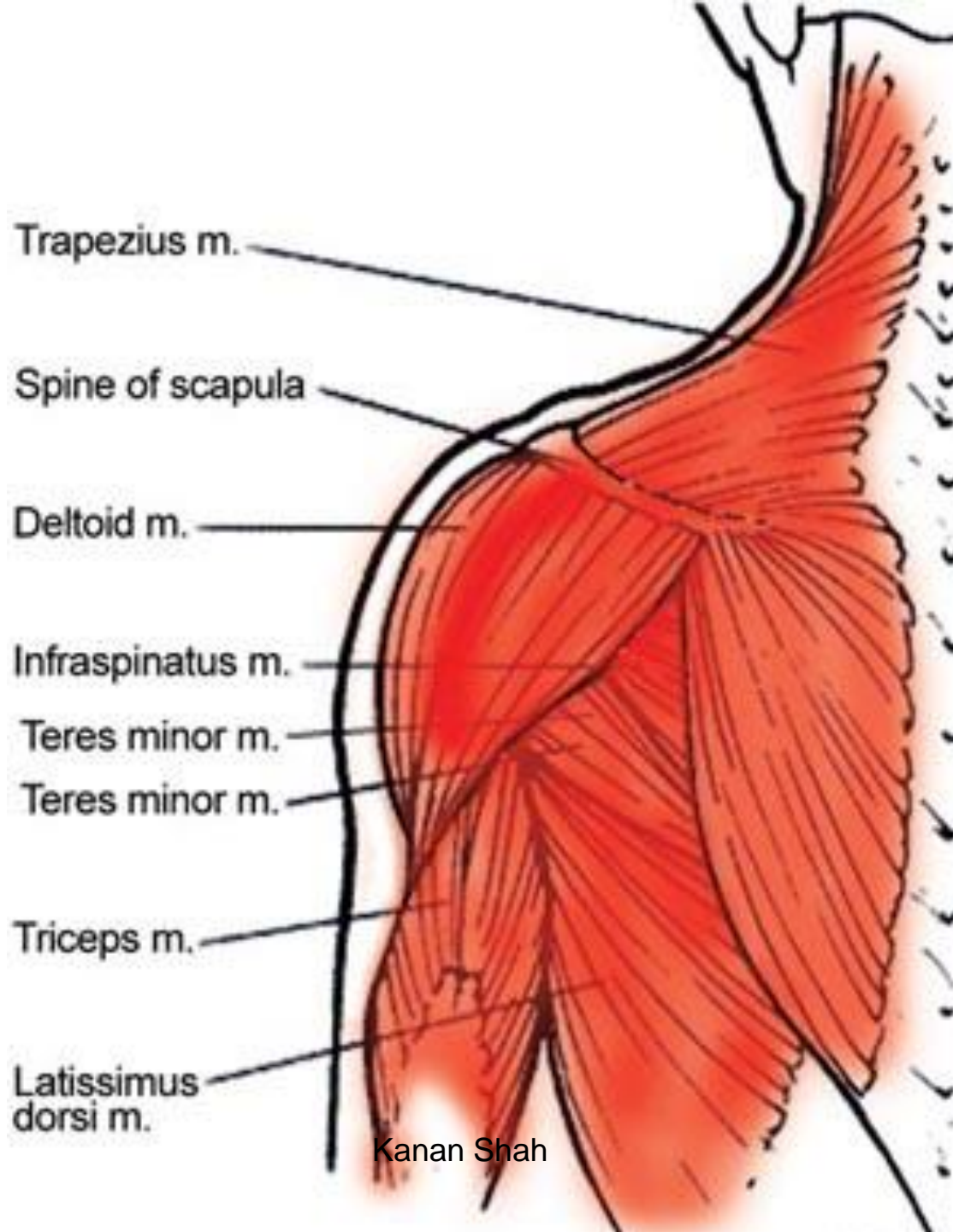


Teres minor muscle

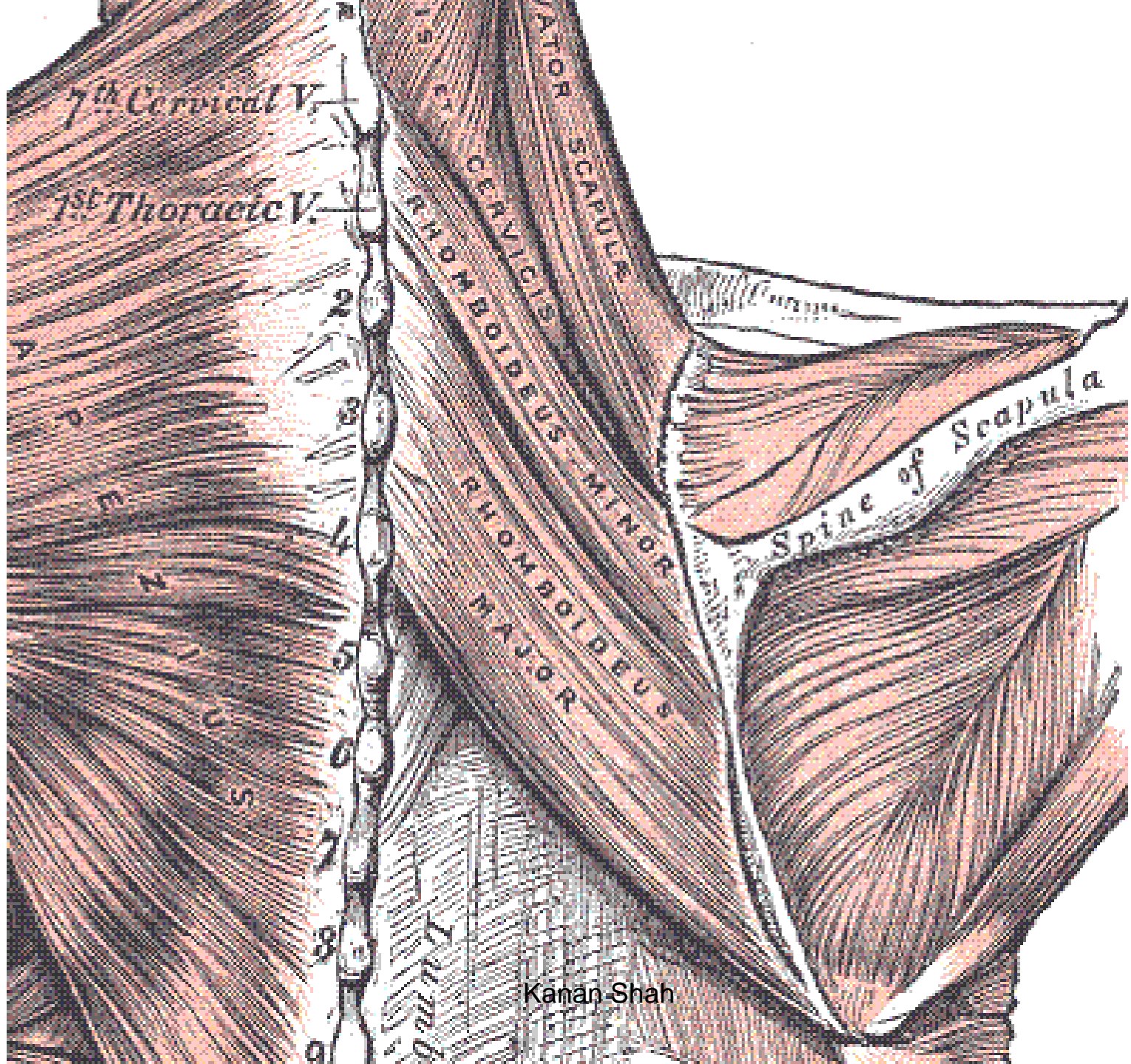
Posterior shoulder

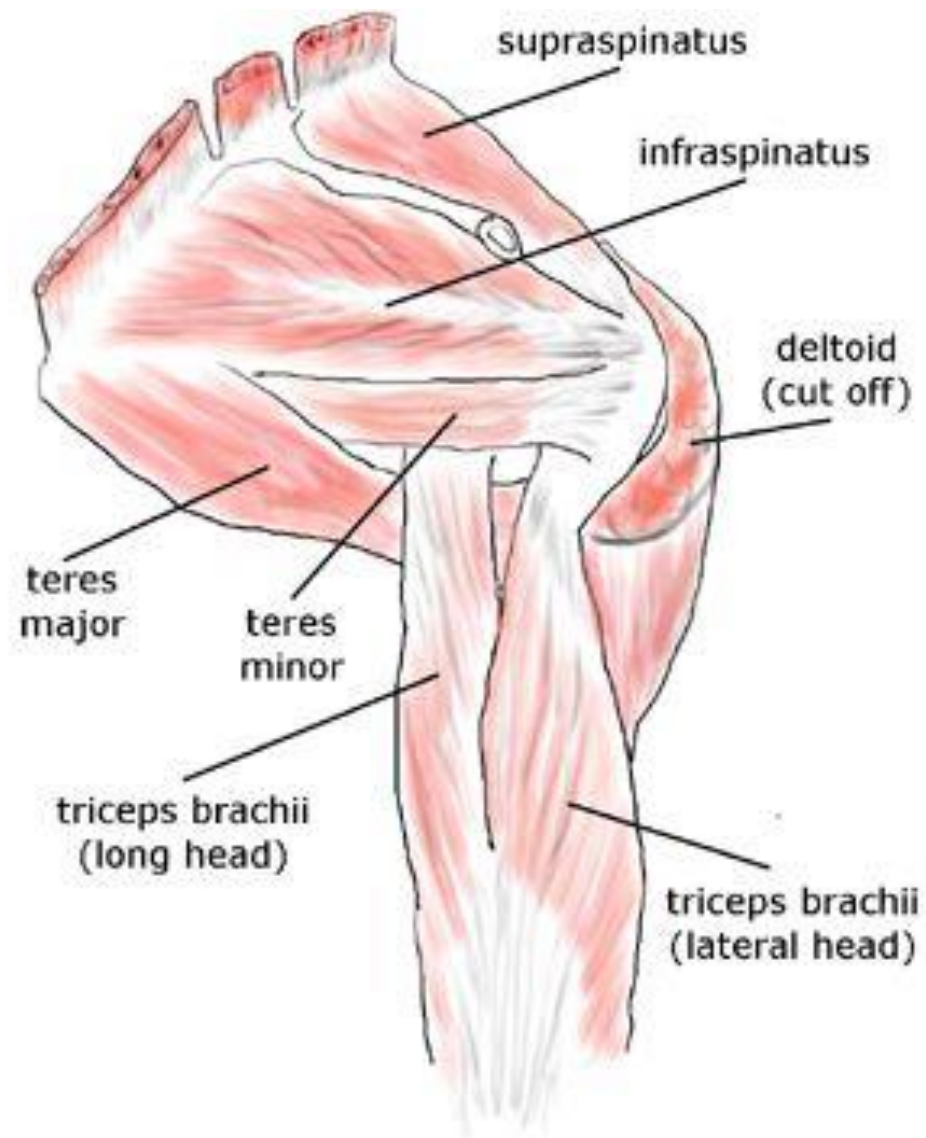






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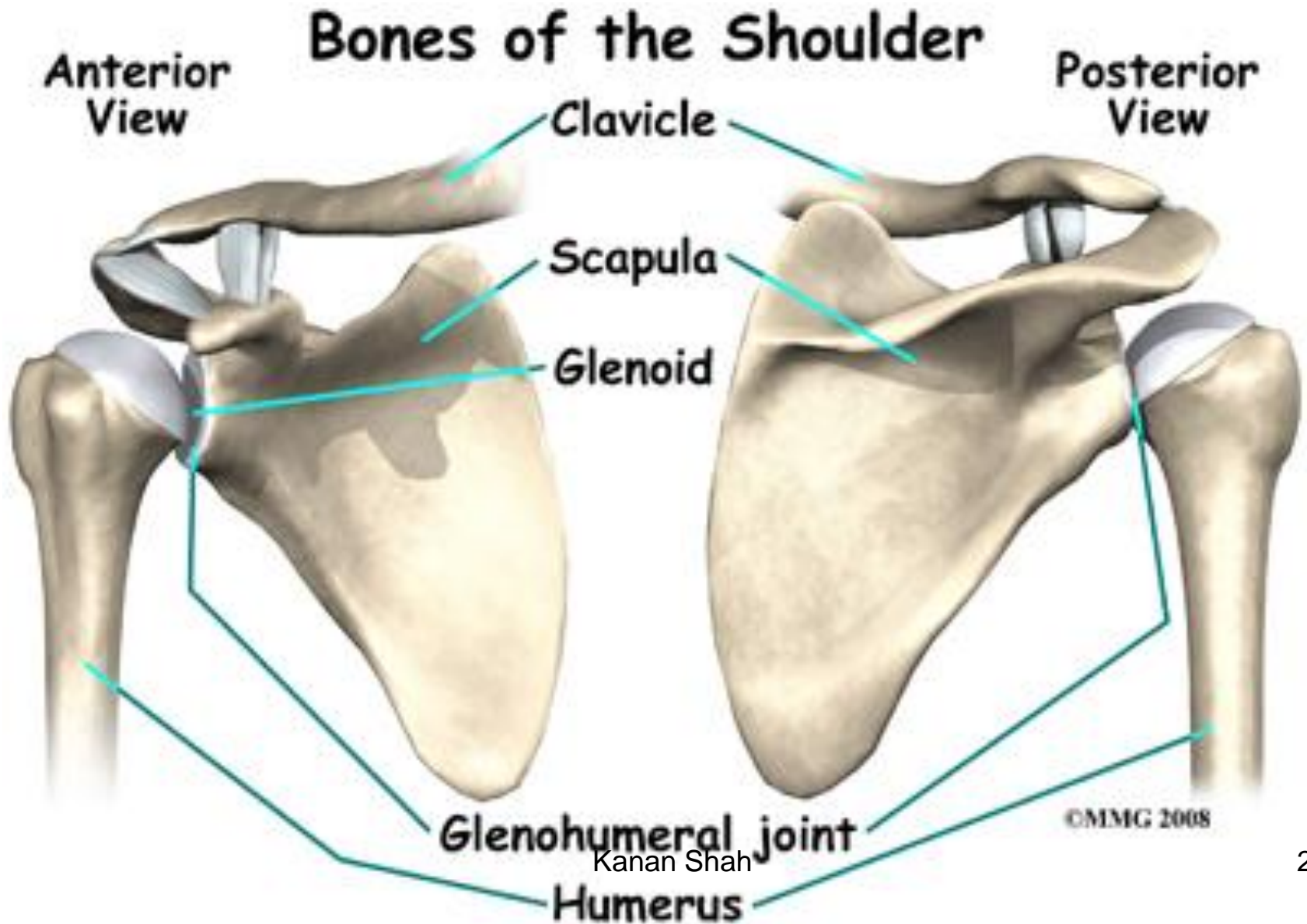


# SHOULDER JOINT

## GLENOHUMERAL JOINT

MULTIAXIAL ,  
BALL & SOCKET TYPE  
SIMPLE  
SYNOVIAL JOINT

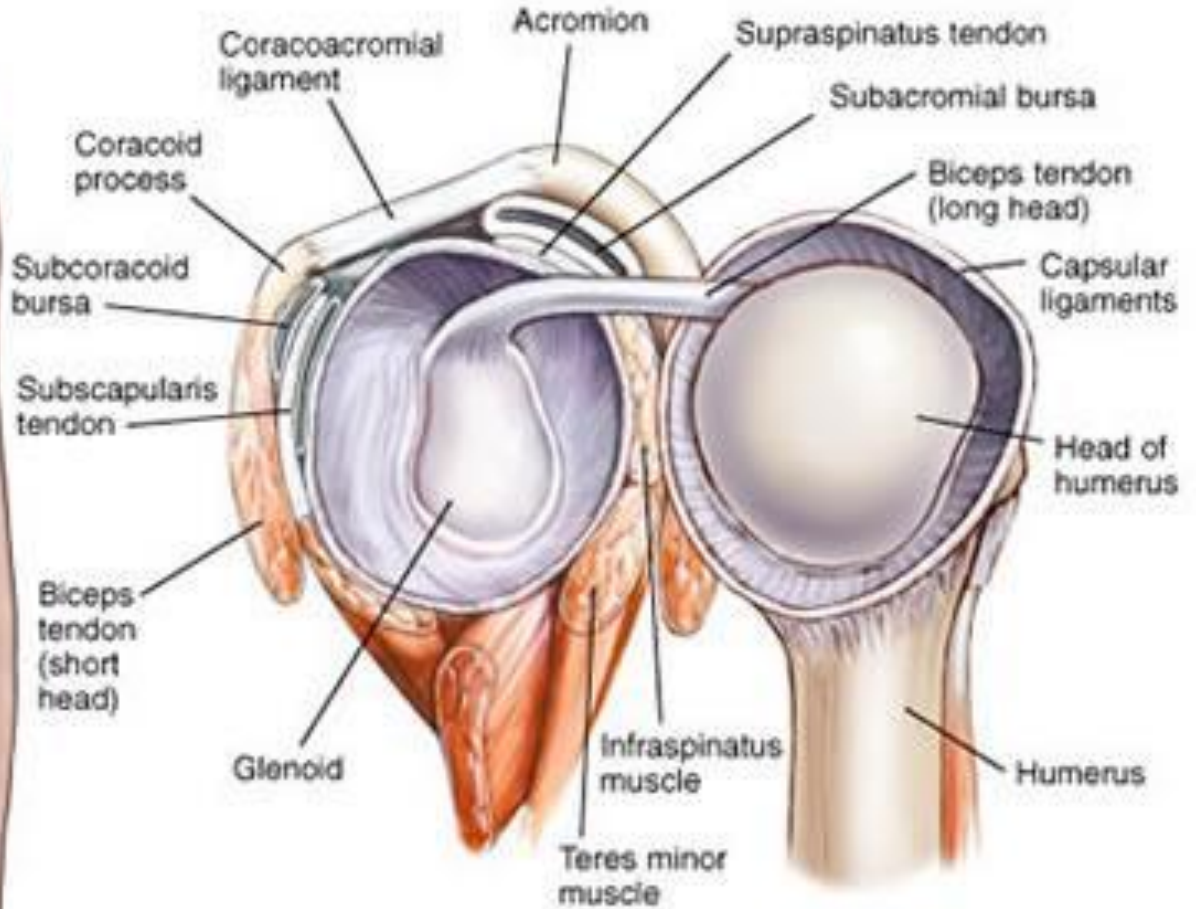
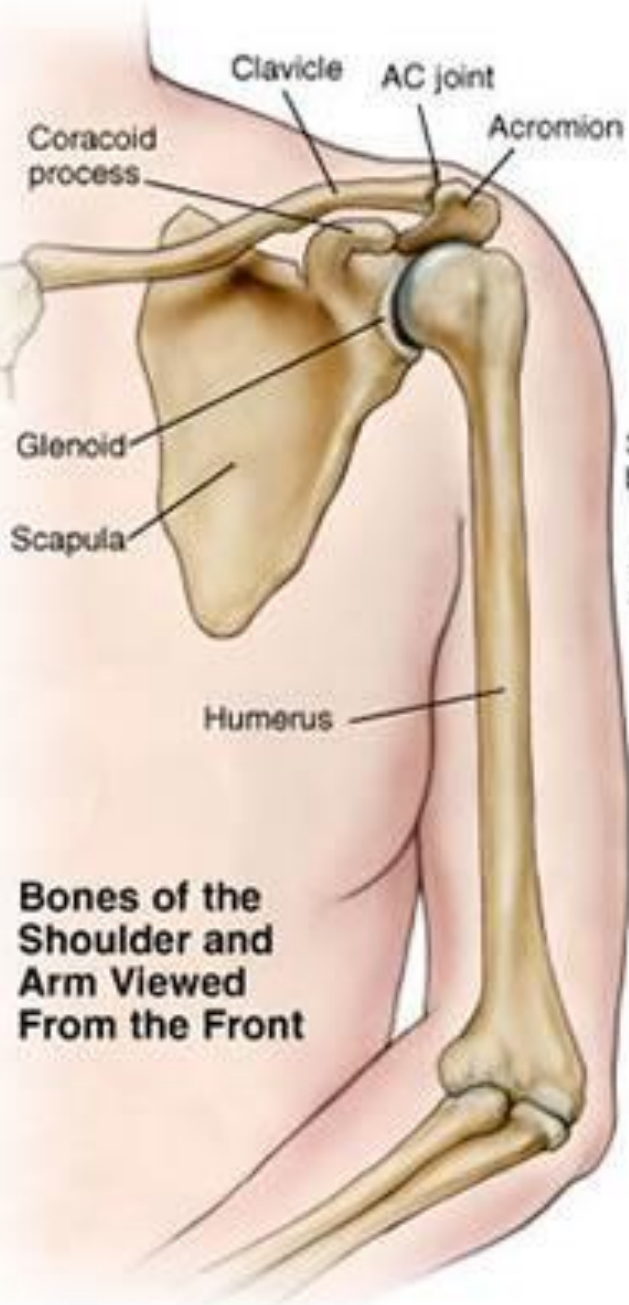
# ARTICULAR SURFACES



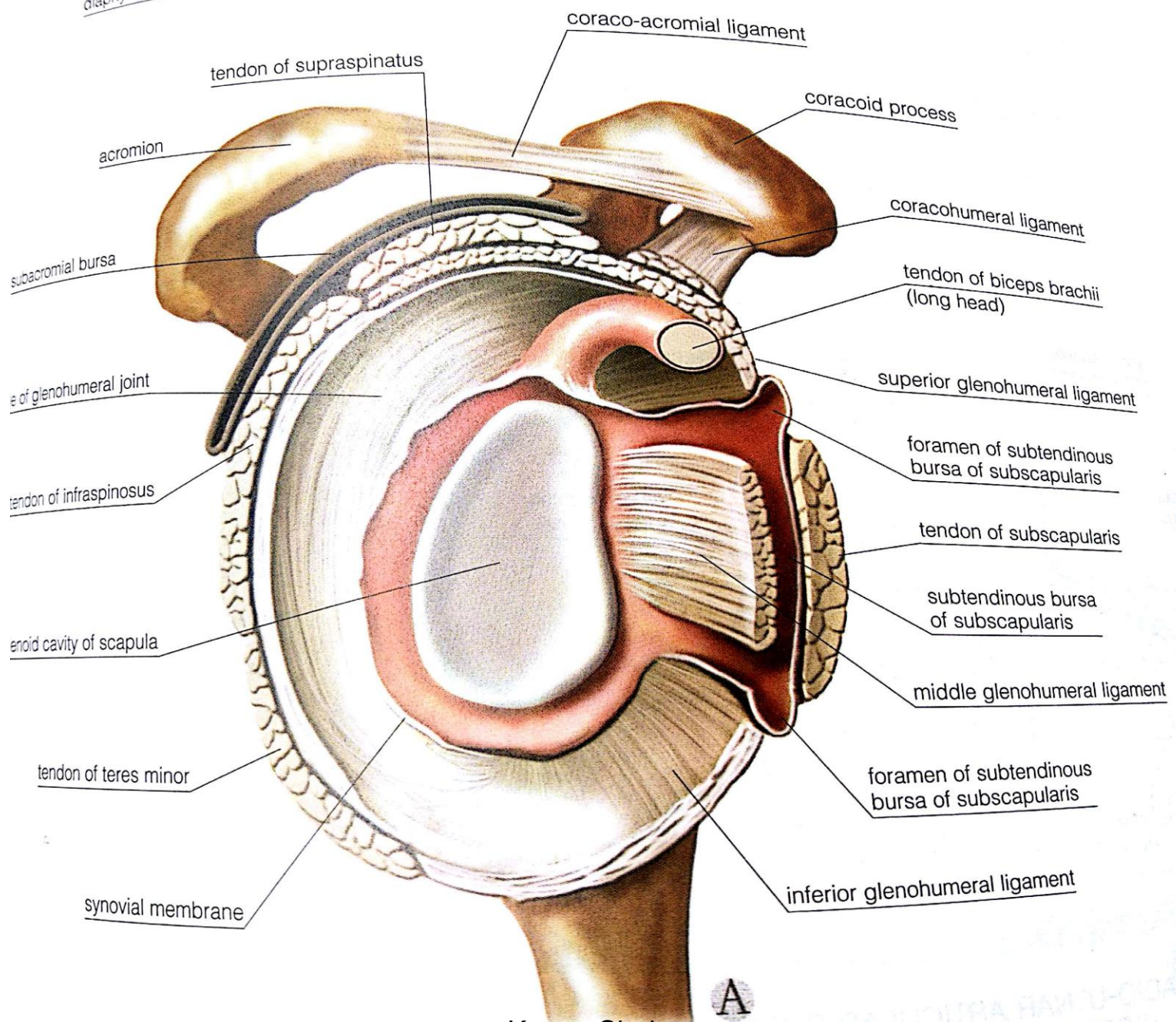
# LIGAMENTS

- FIBROUS CAPSULE
- SYNOVIAL MEMBRANE
- GLENOHUMERAL LIGAMENTS
- GLENOIDAL LABRUM
- CORACO-HUMERAL LIGAMENT
- TRANSVERSE HUMERAL LIGAMENT

# Shoulder Anatomy



**View of Joint Opened**



tendon of supraspinatus  
 acromion  
 subacromial bursa  
 head of glenohumeral joint  
 tendon of infraspinatus  
 glenoid cavity of scapula  
 tendon of teres minor  
 synovial membrane

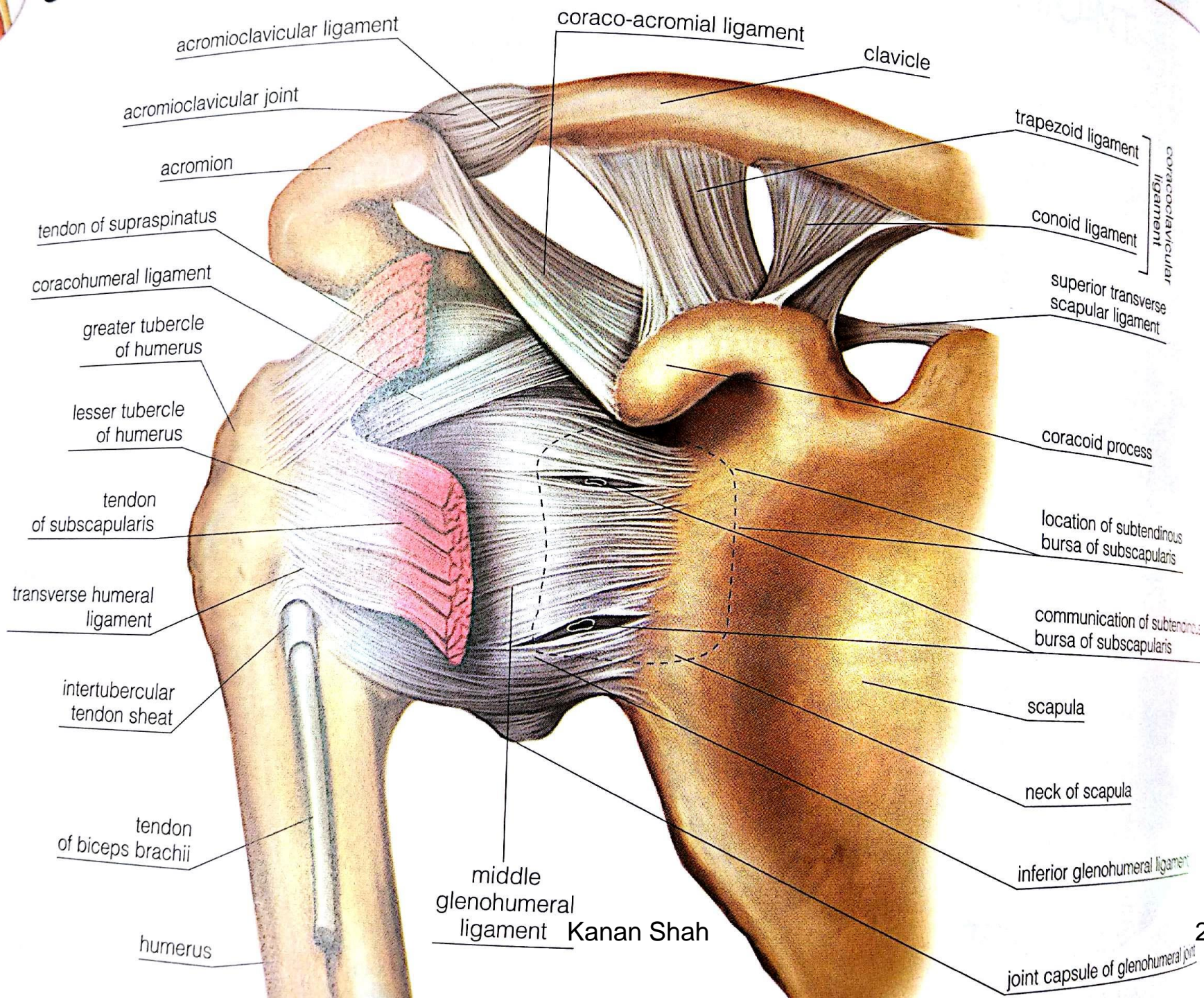
coraco-acromial ligament  
 coracoid process  
 coracohumeral ligament  
 tendon of biceps brachii (long head)  
 superior glenohumeral ligament  
 foramen of subtendinous bursa of subscapularis  
 tendon of subscapularis  
 subtendinous bursa of subscapularis  
 middle glenohumeral ligament  
 foramen of subtendinous bursa of subscapularis  
 inferior glenohumeral ligament

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A

RIGHT SIDE. LATERAL VIEW

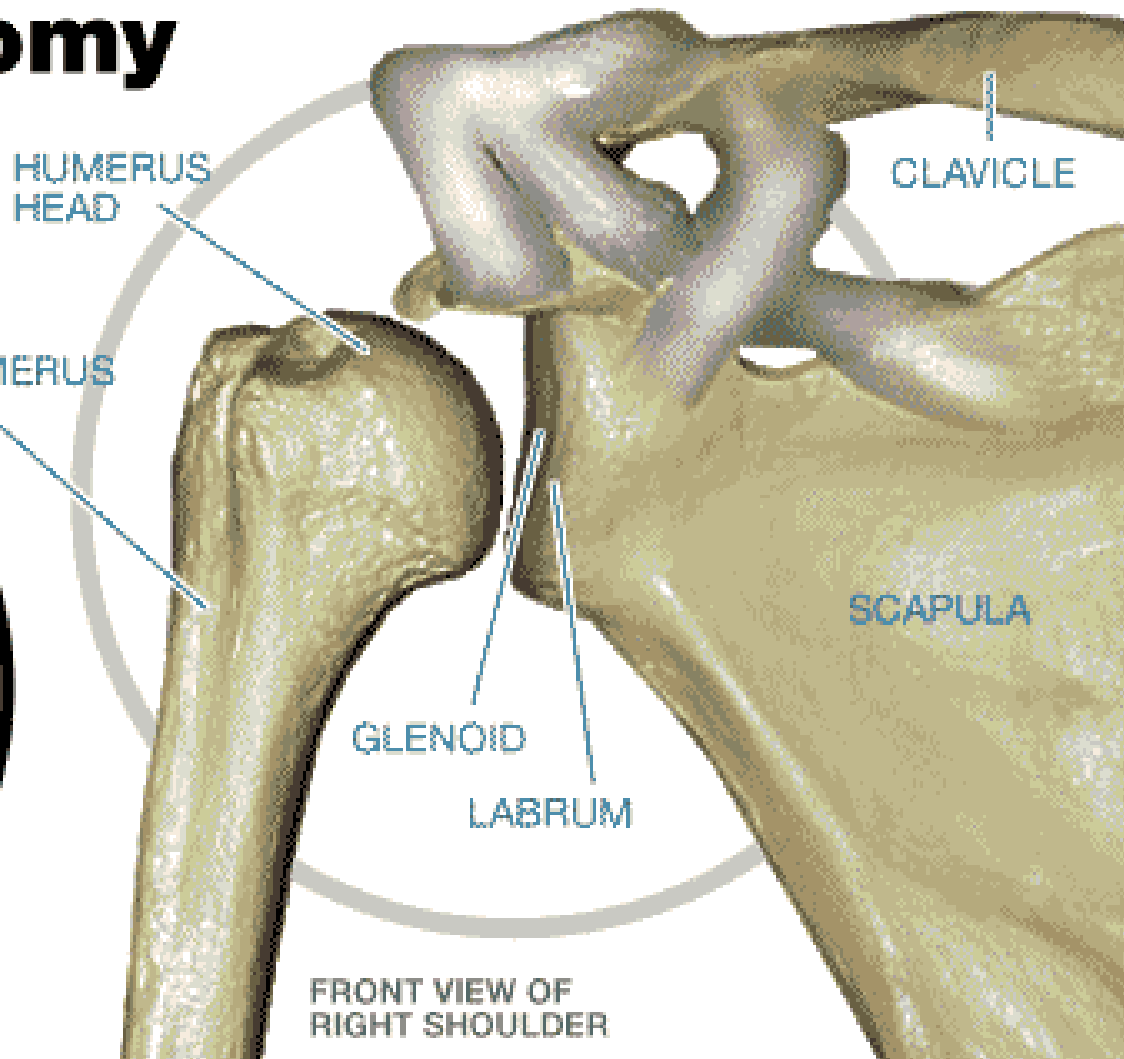
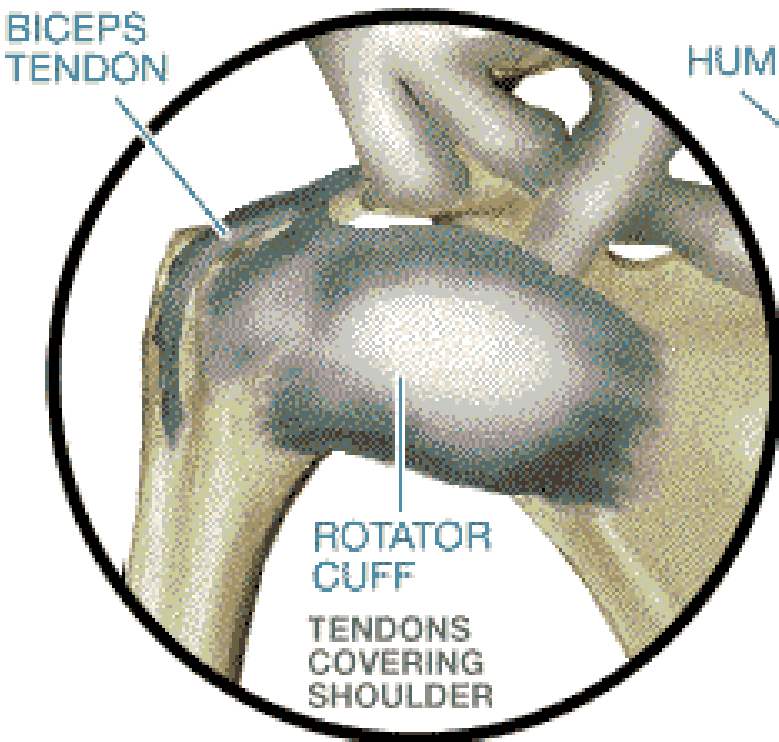


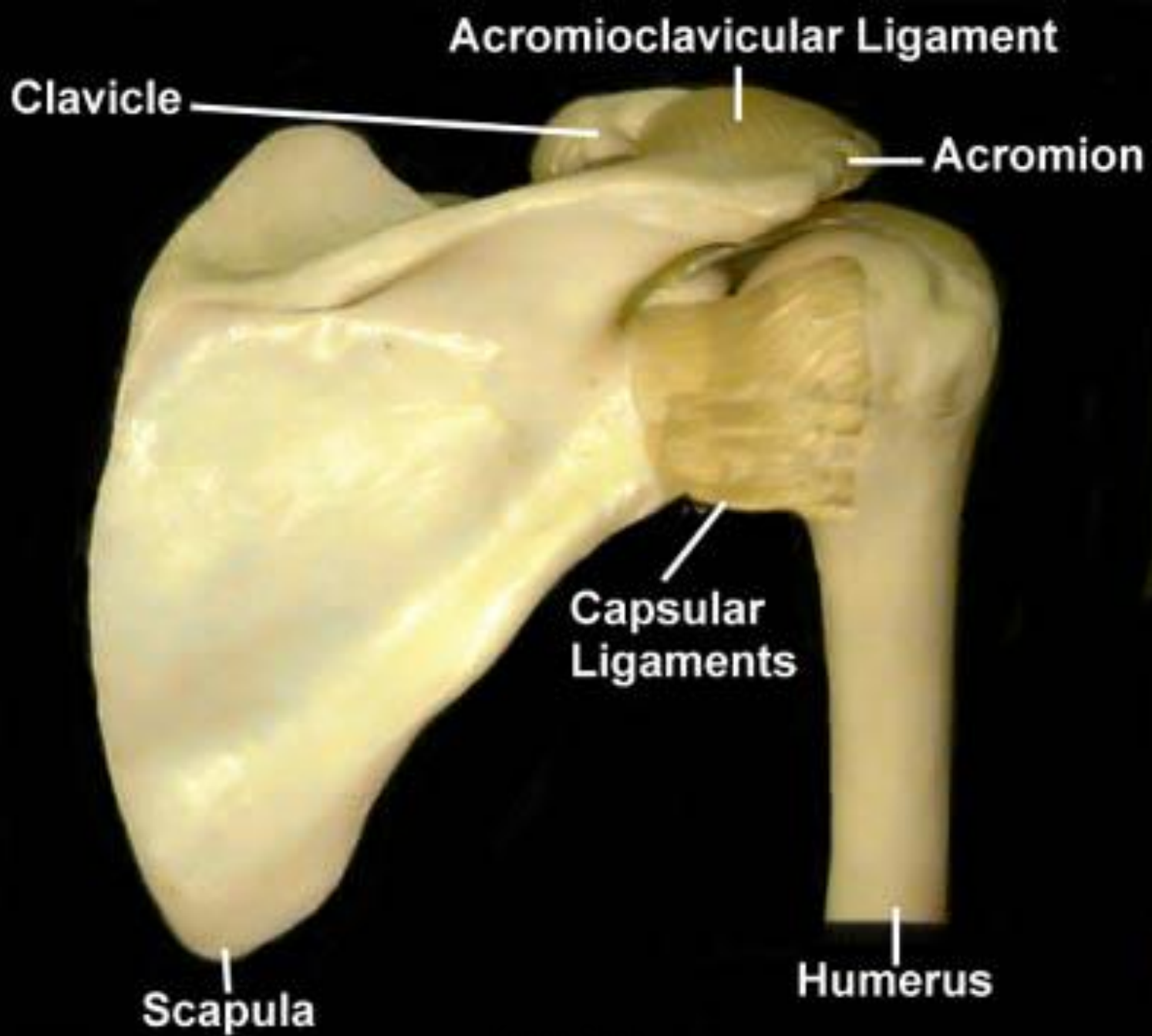


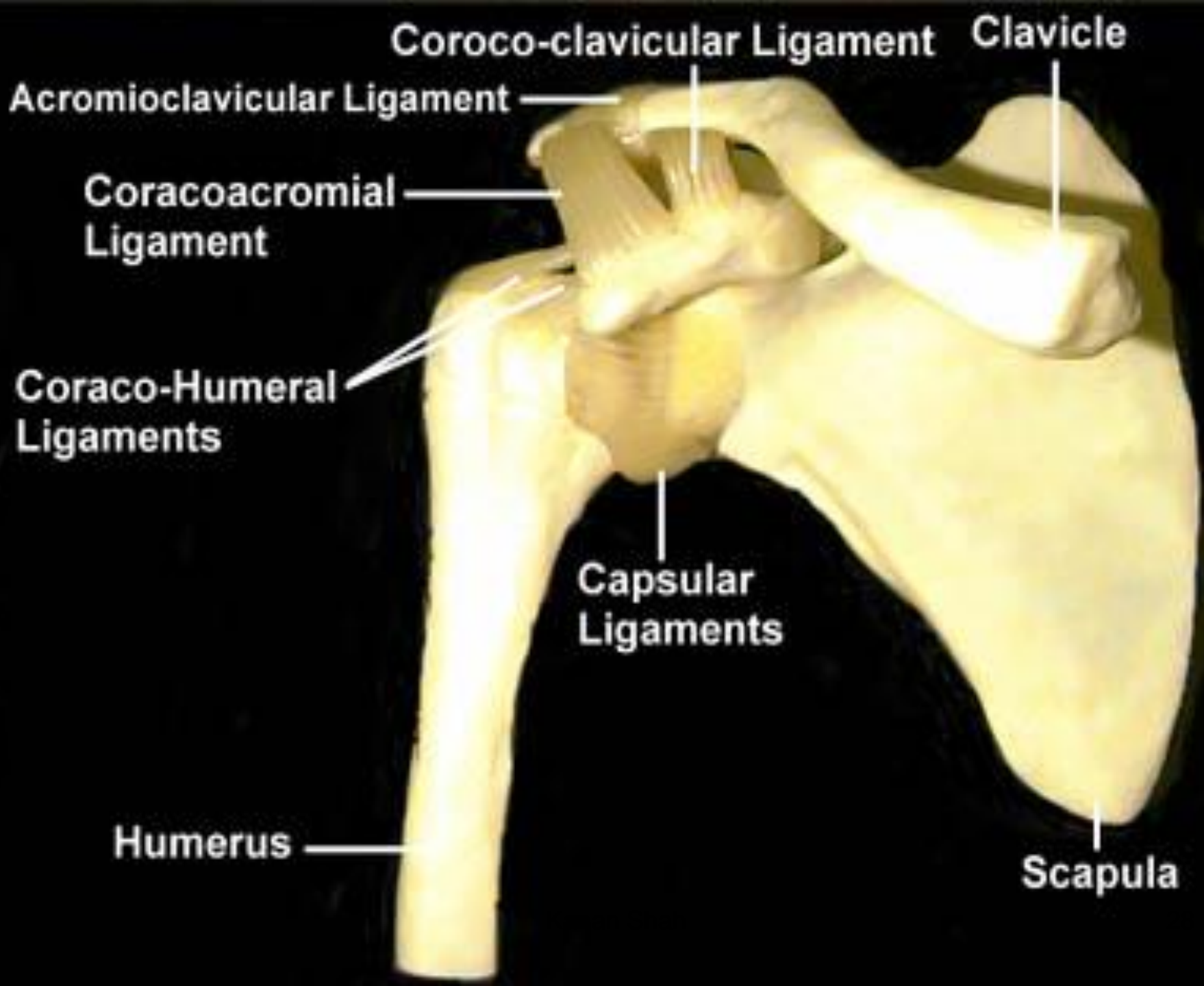
Kanan Shah

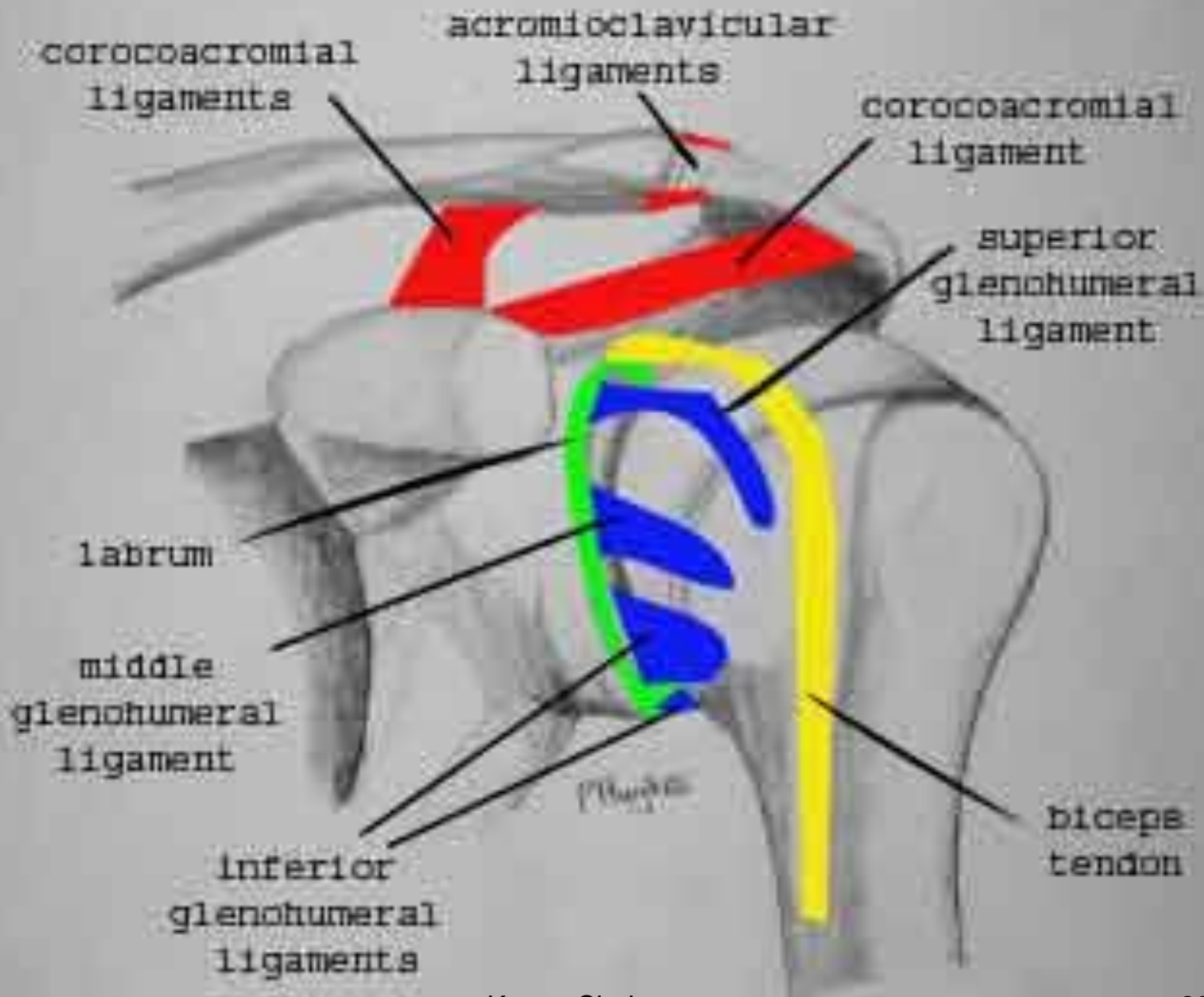
# Shoulder anatomy

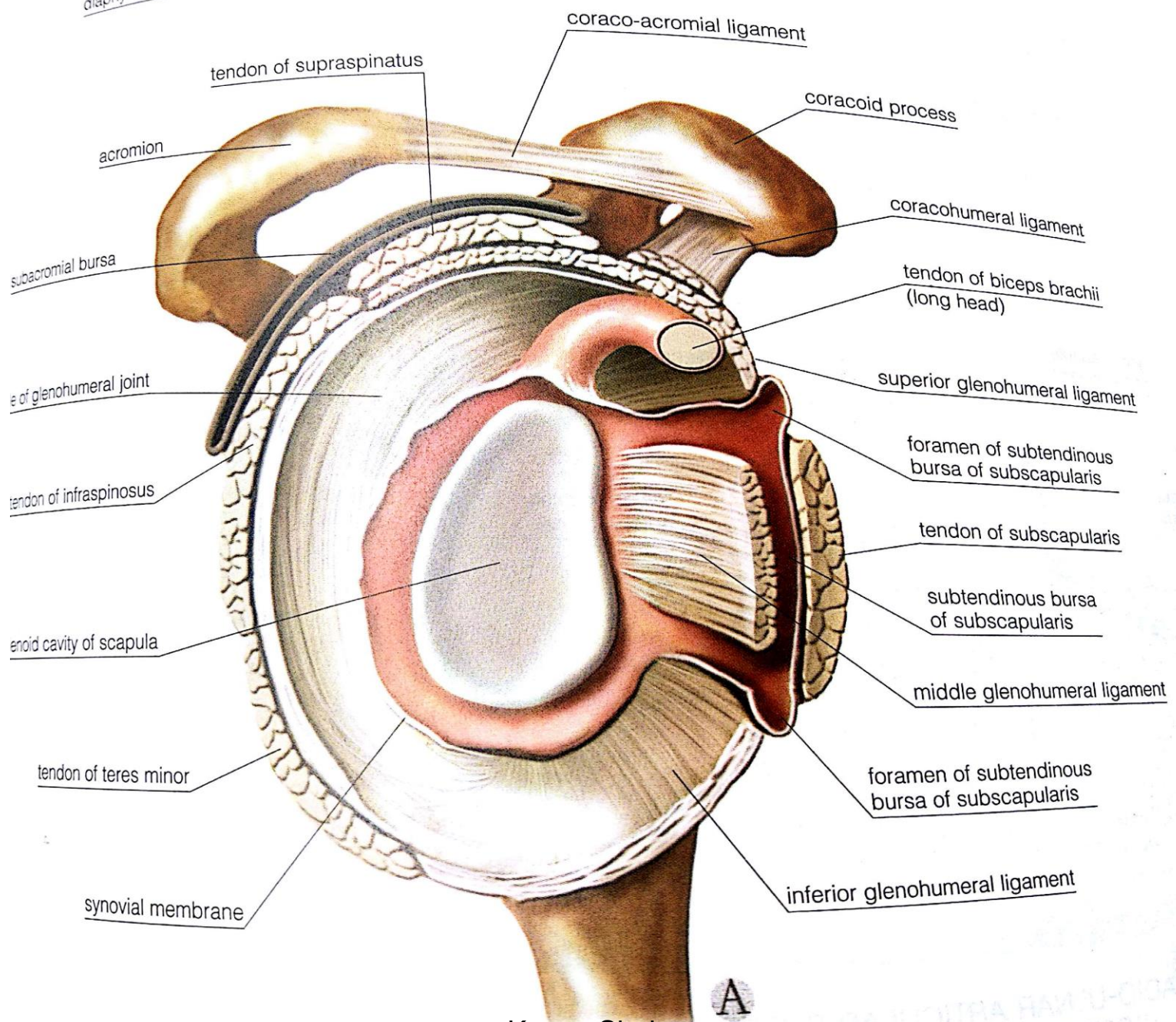
Your shoulder joint fits together like a cup and saucer. The cup is the head of the humerus and the saucer is the glenoid socket.











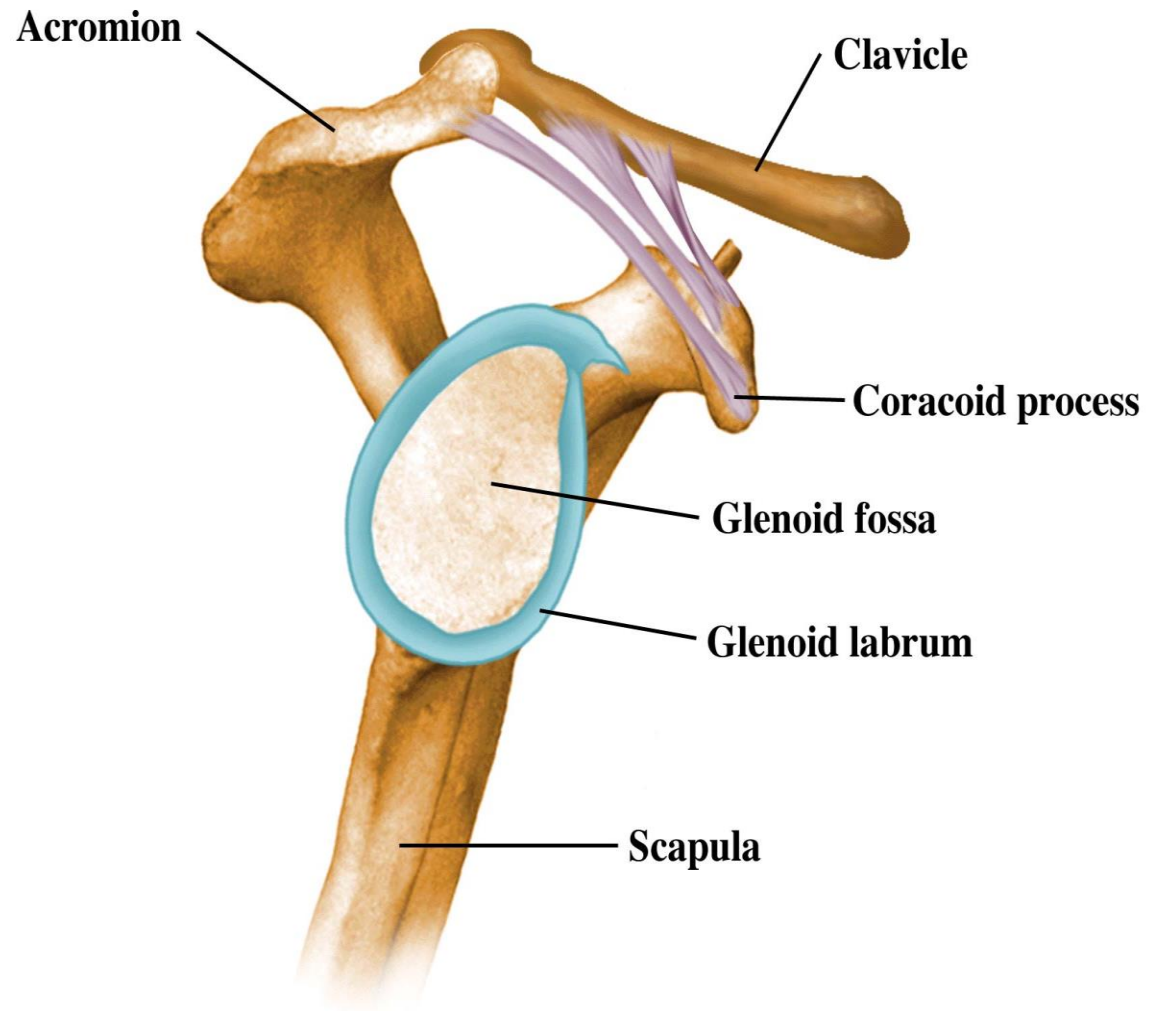
acromion  
 tendon of supraspinatus  
 subacromial bursa  
 head of glenohumeral joint  
 tendon of infraspinatus  
 glenoid cavity of scapula  
 tendon of teres minor  
 synovial membrane

coraco-acromial ligament  
 coracoid process  
 coracohumeral ligament  
 tendon of biceps brachii (long head)  
 superior glenohumeral ligament  
 foramen of subtendinous bursa of subscapularis  
 tendon of subscapularis  
 subtendinous bursa of subscapularis  
 middle glenohumeral ligament  
 foramen of subtendinous bursa of subscapularis  
 inferior glenohumeral ligament

A

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RIGHT SIDE. LATERAL VIEW



## LIGAMENTS

- Capsule
- Coracohumeral
- Glenohumeral
- Transverse humeral
- Glenoid labrum

## FUNCTIONS

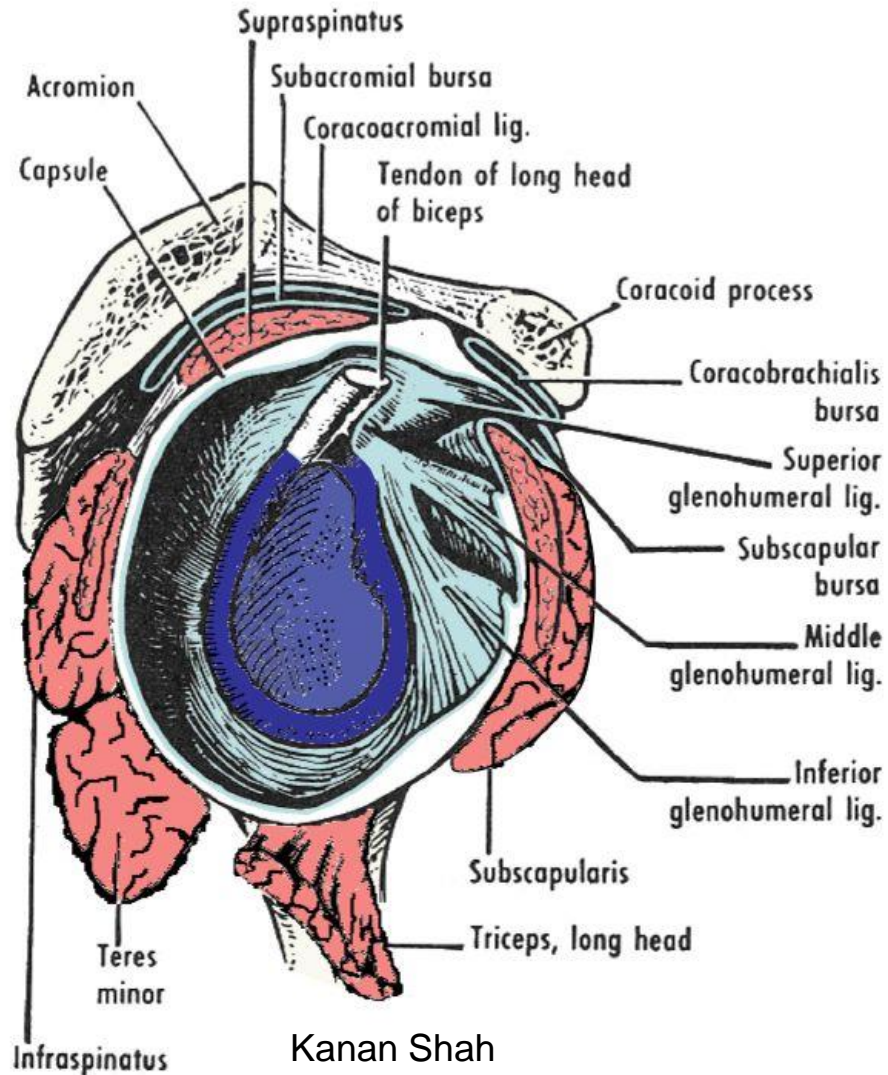
- Support/boundary layer
- Anterior support; tightens with flexion
- Superior, middle and inferior  
(strongest)
- Maintains long head biceps in groove
- Increases surface area, stability

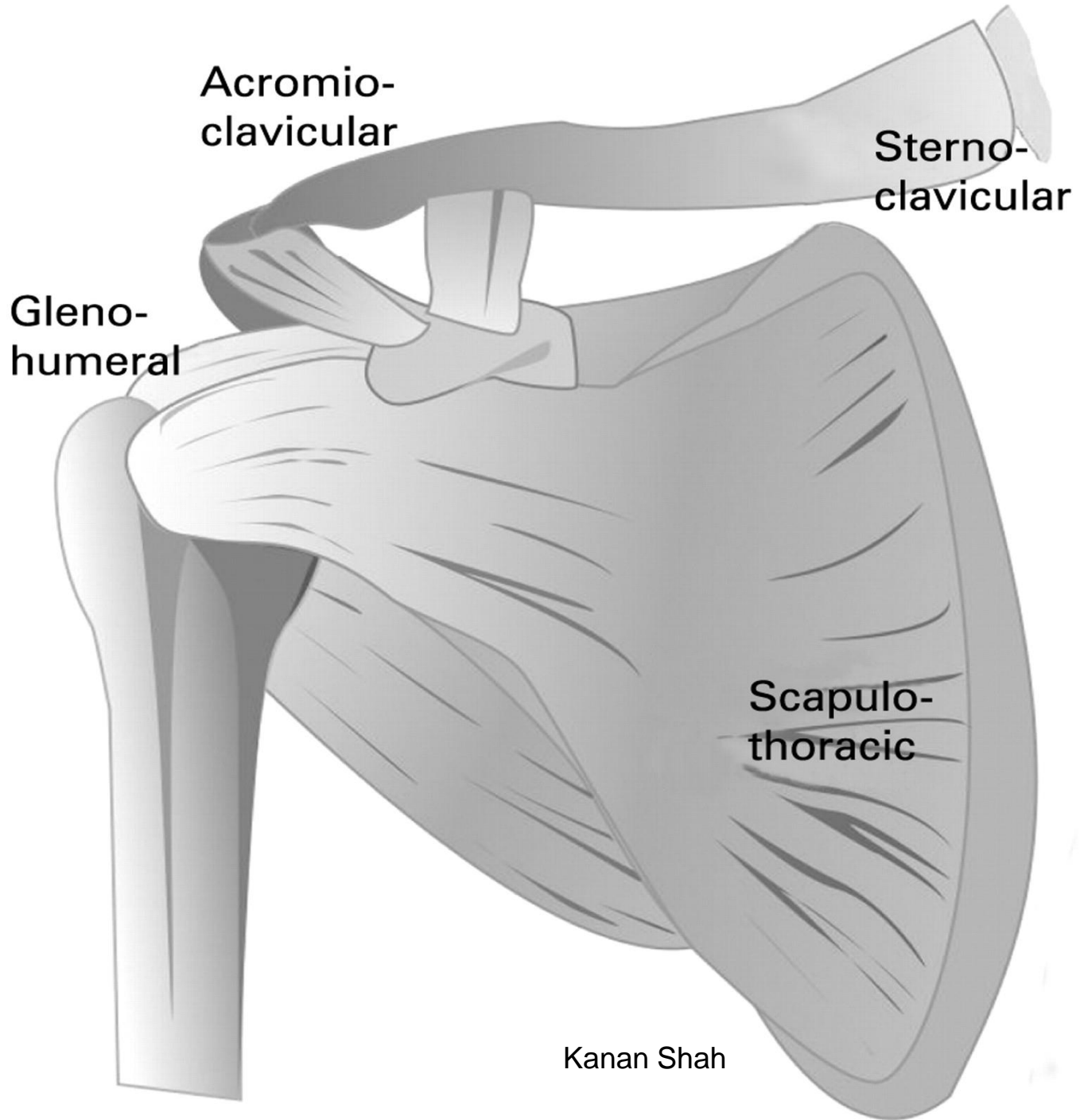


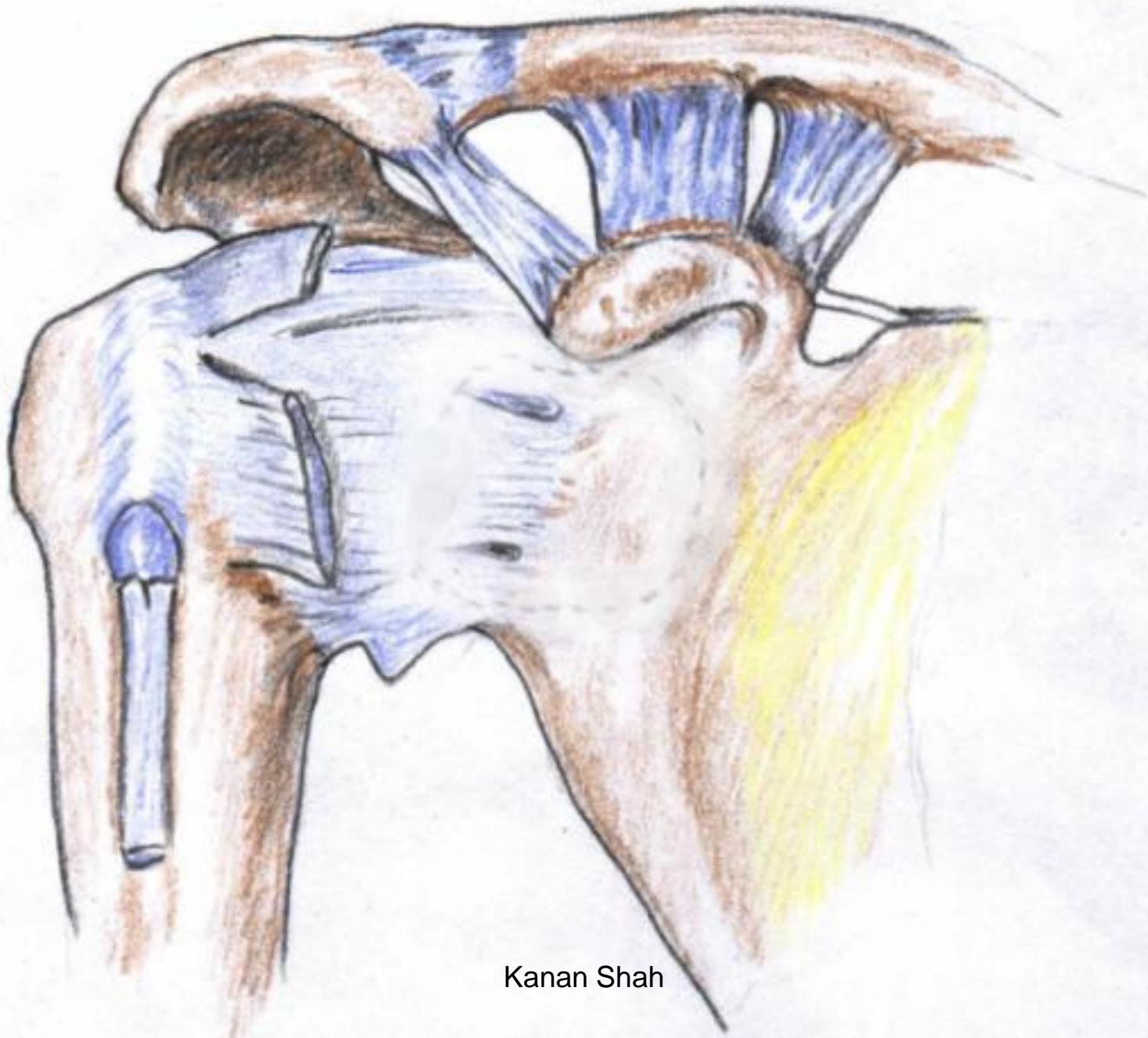
# FACTORS MAINTAIN STABILITY OF SHOULDER JOINT

- ROTATOR CUFF
- CORACOHUMERAL LIGAMENT
- SUPRASPINATUS
- FIBROUS CAPSULE
- LONG HEAD OF TRICEPS & TERES MAJOR
- CORACOACROMIAL ARCH
- LONG HEAD OF BICEPS
- GLENOID LABRUM

# RELATION

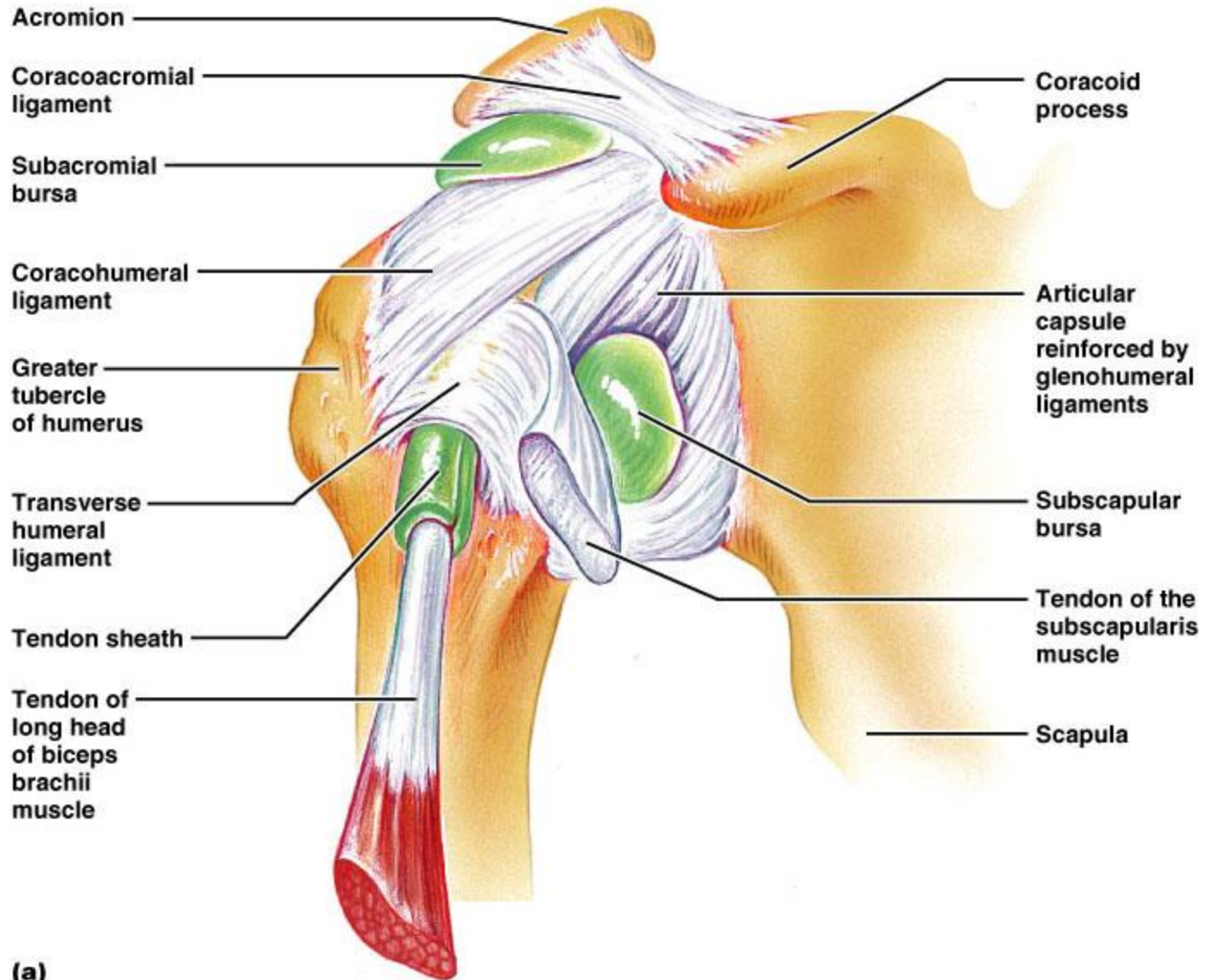




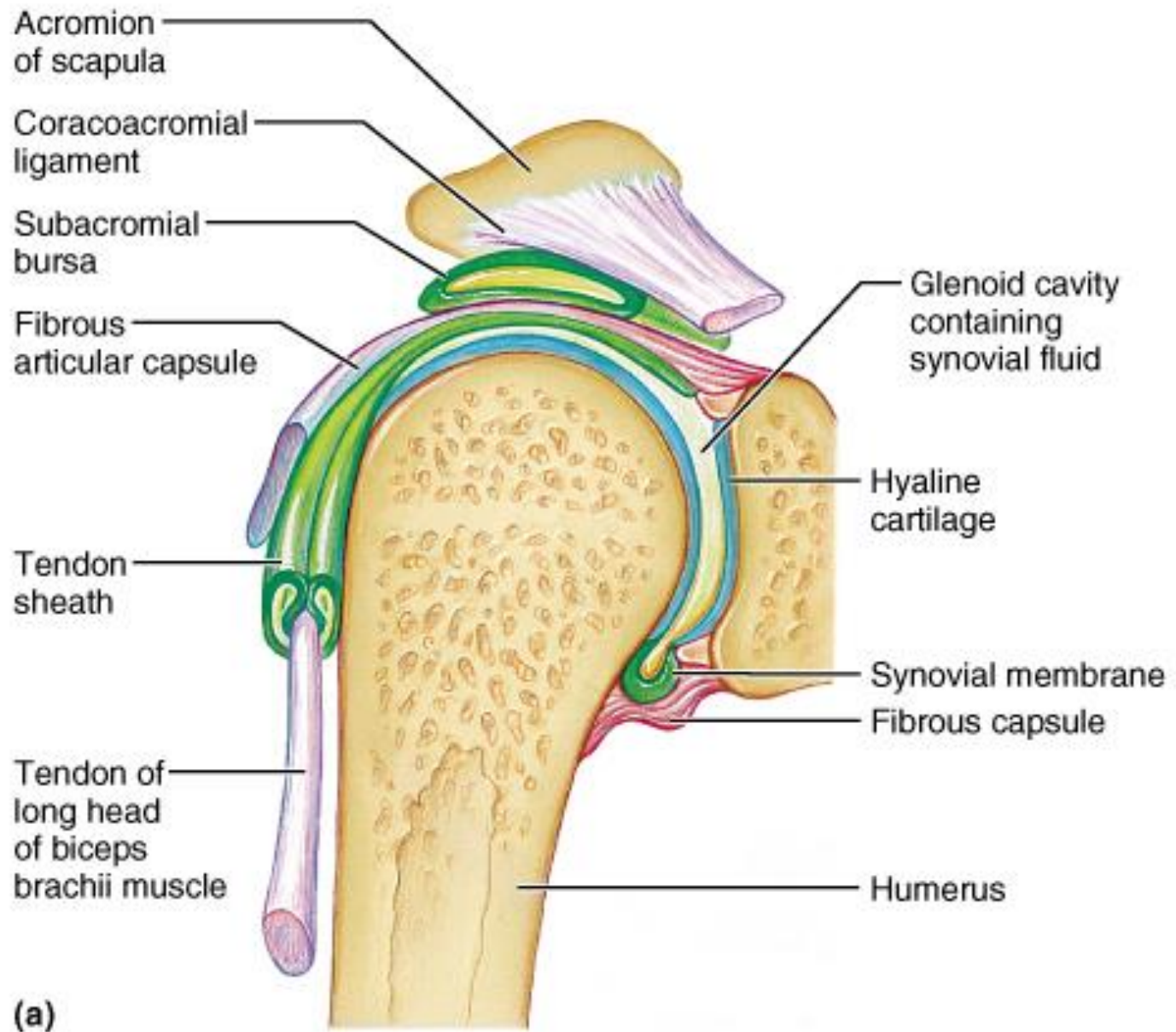


# BURSAE

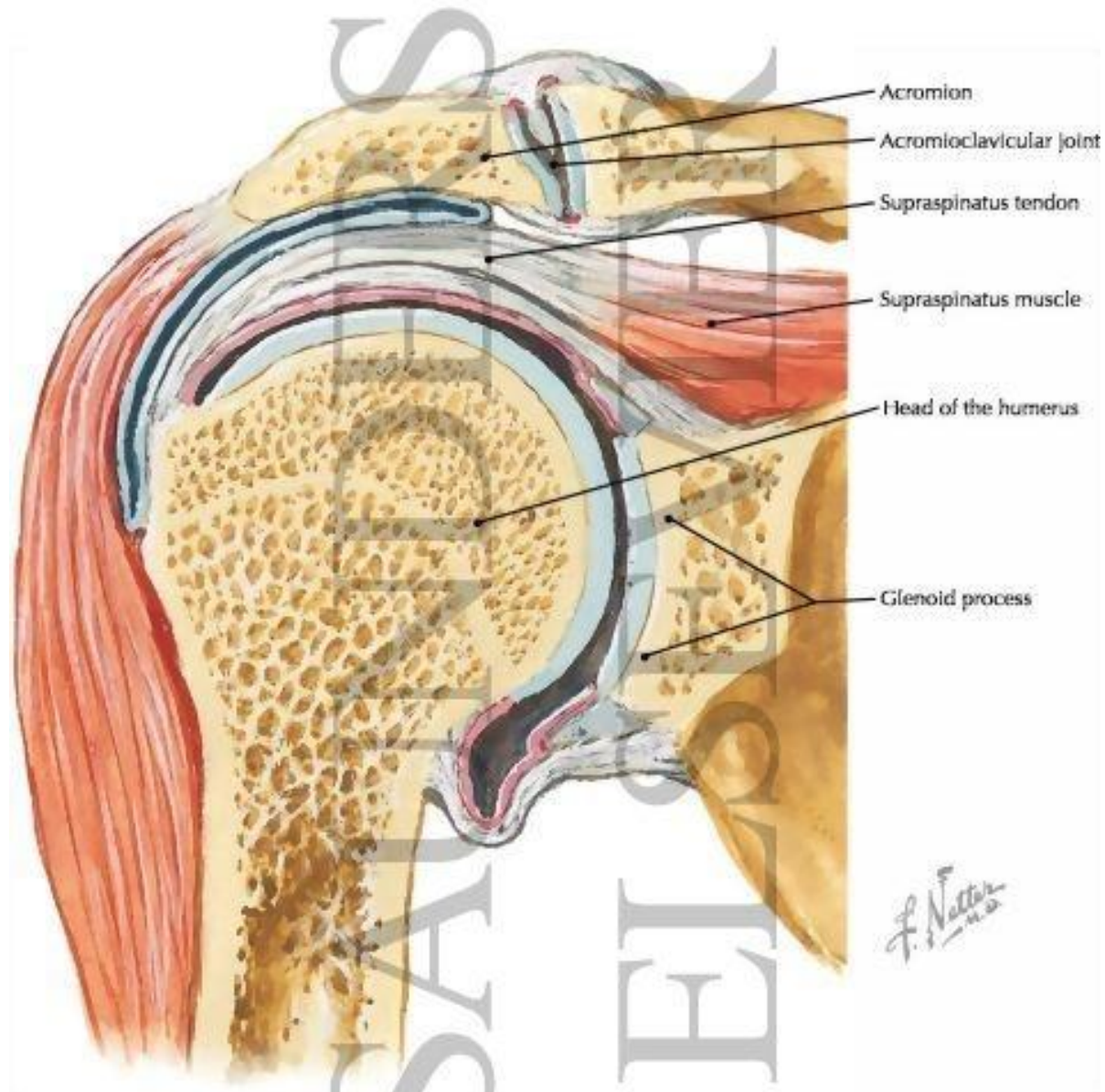
- SUBACROMIAL(SUBDELTOID) BURSA
- SUBSCAPULARIS BURSA
- INFRASCAPULAR BURSA
- BURSAE RELATED TO MUSCLES



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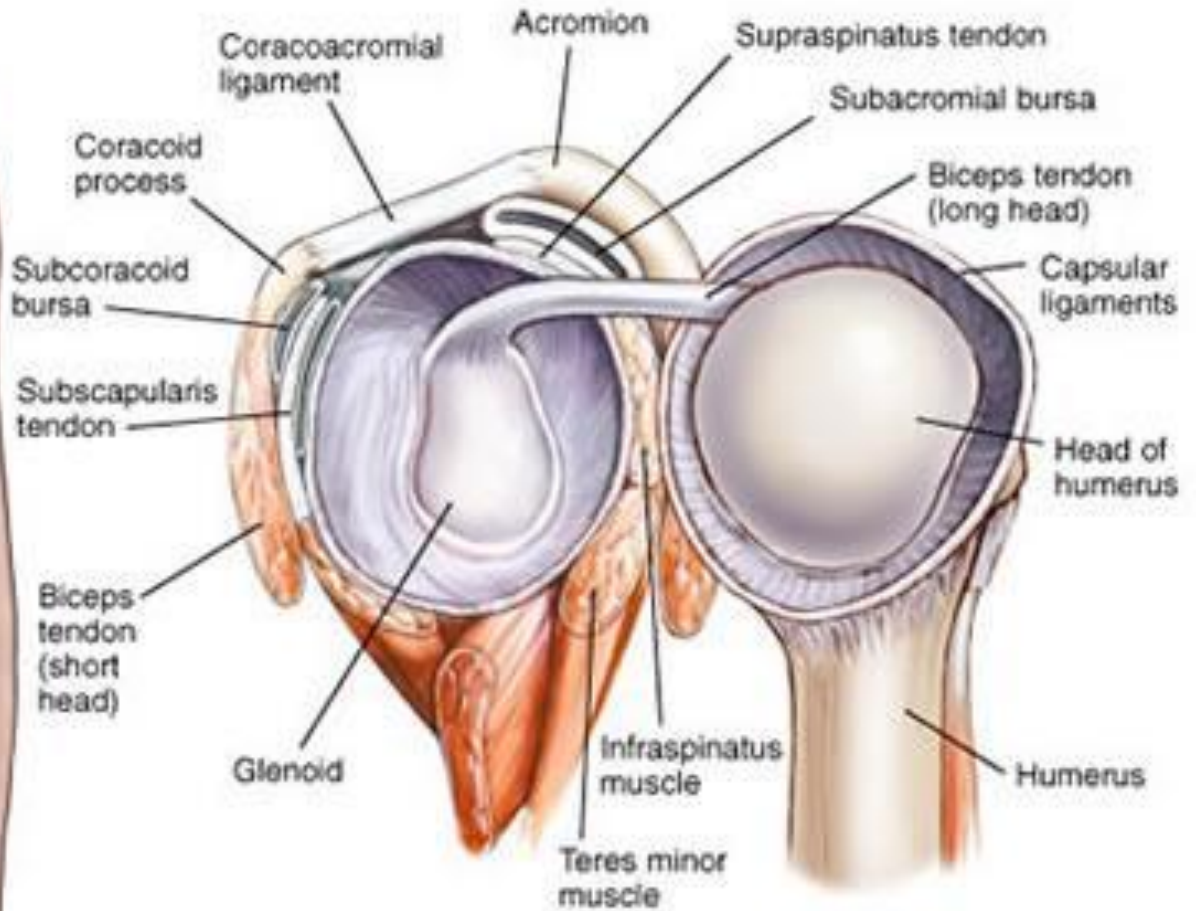
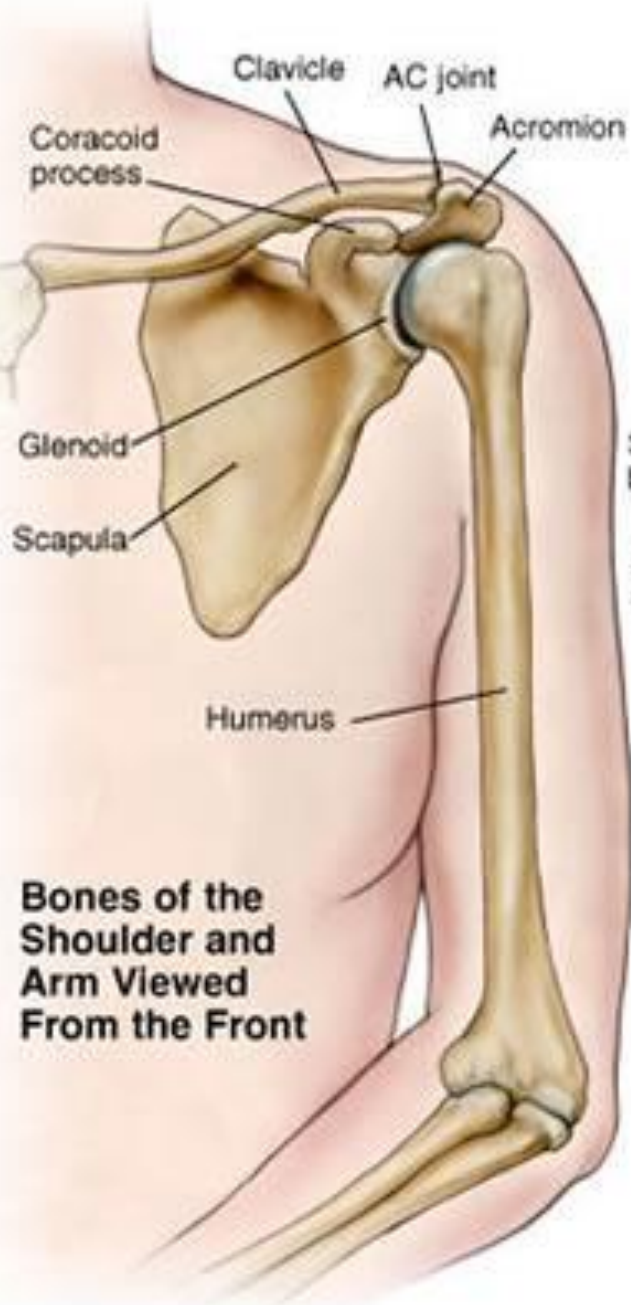


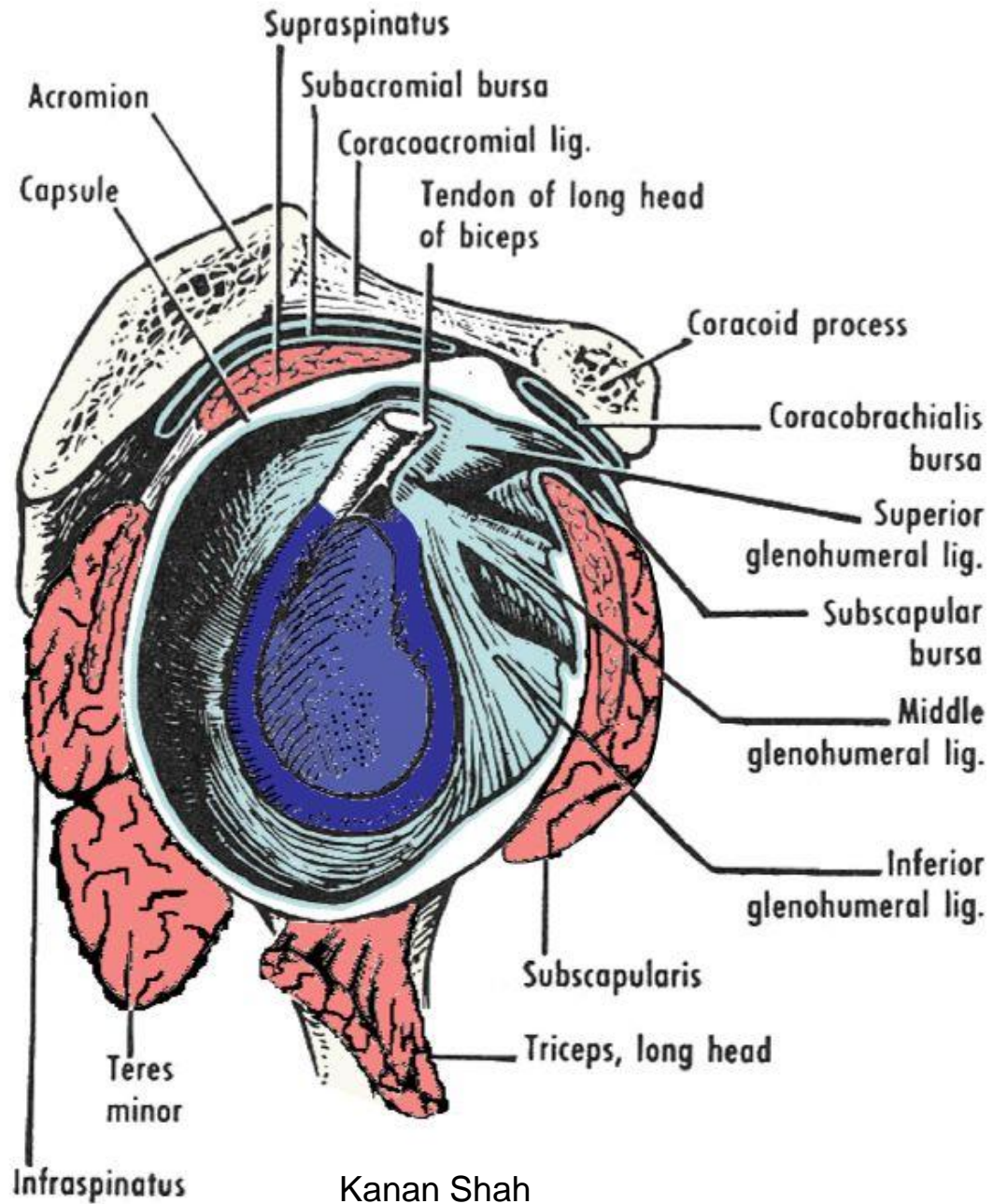
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40



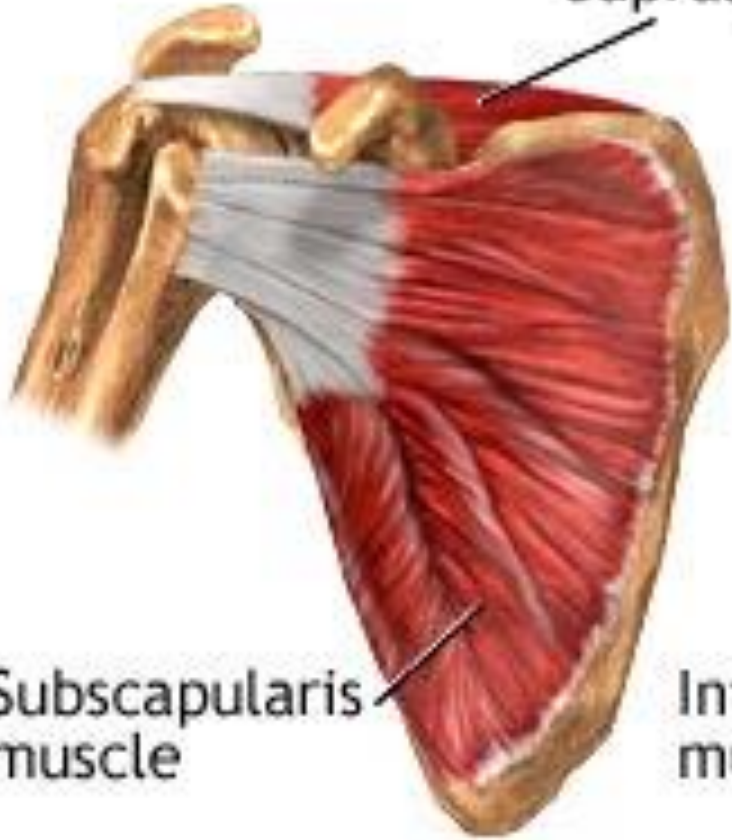
# Shoulder Anatomy





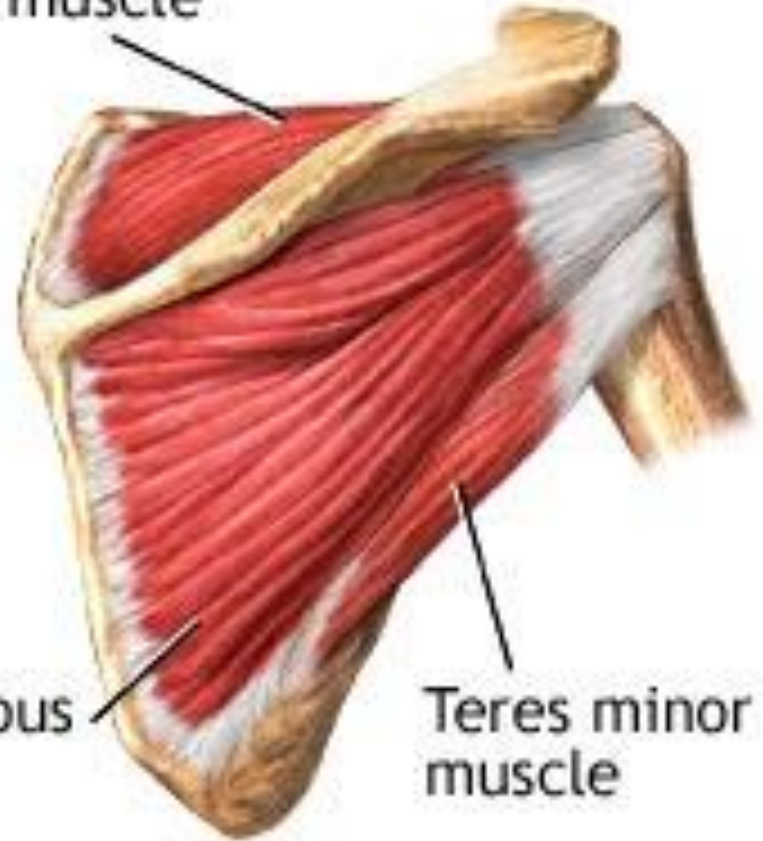
# Rotator cuff muscles

Supraspinatous muscle



Subscapularis muscle

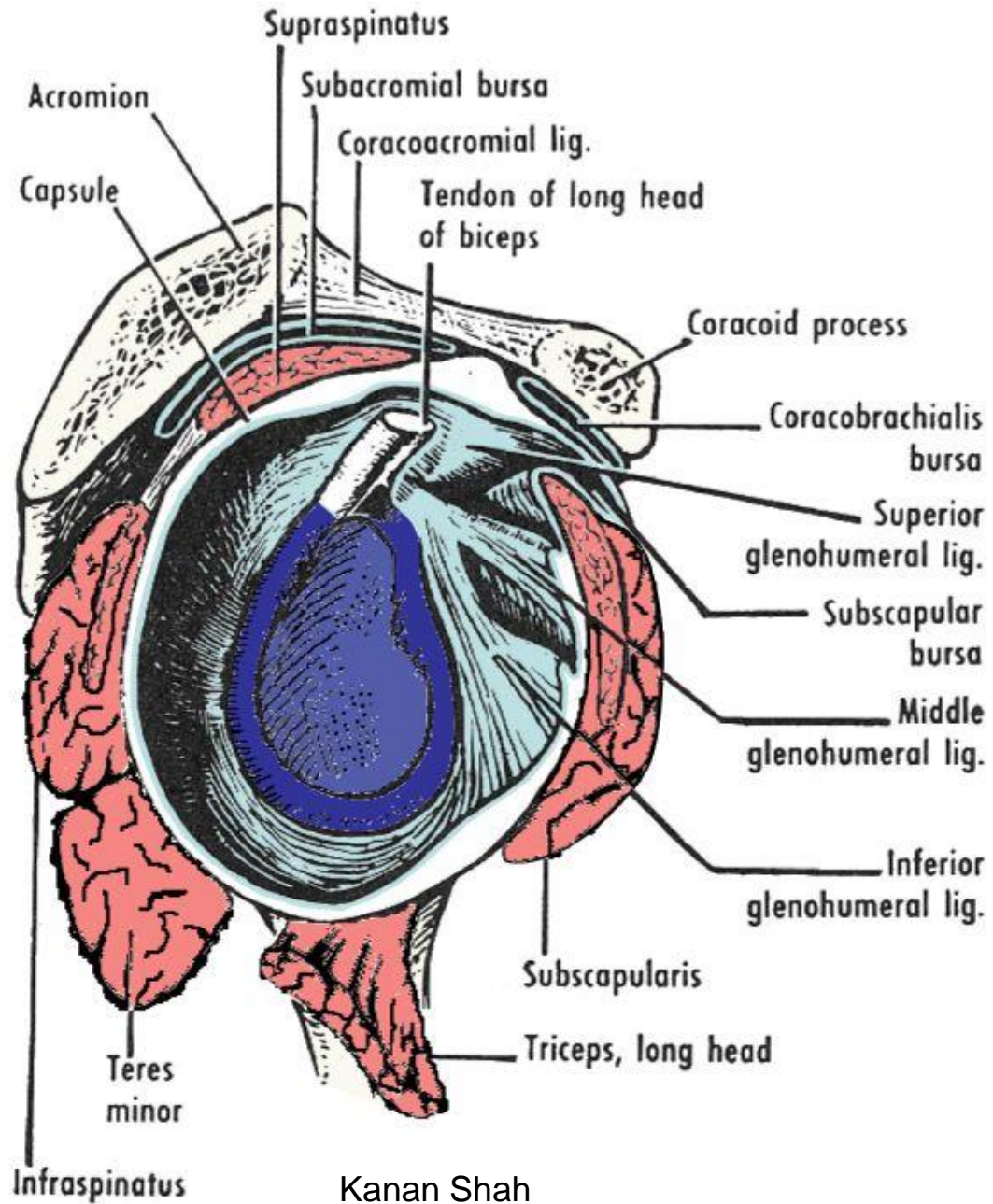
Infraspinatous muscle



Teres minor muscle

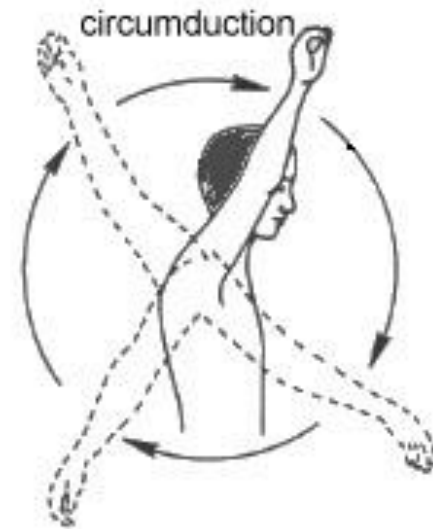
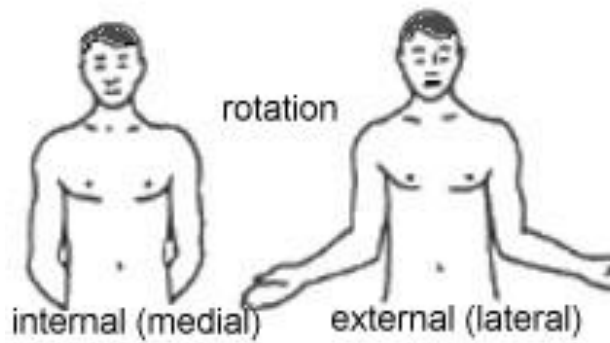
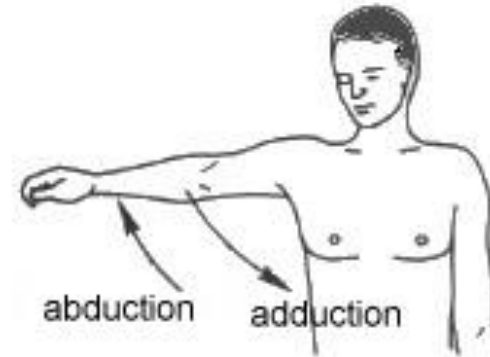
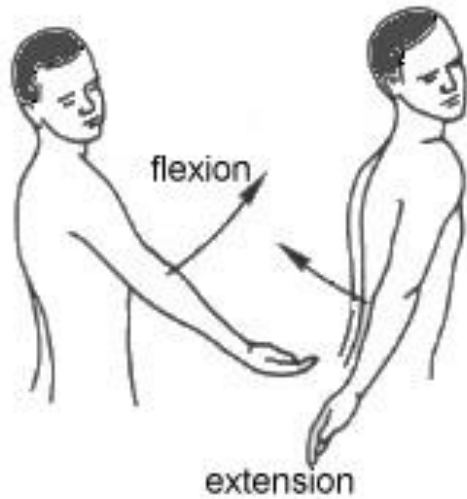
Anterior shoulder

Posterior shoulder

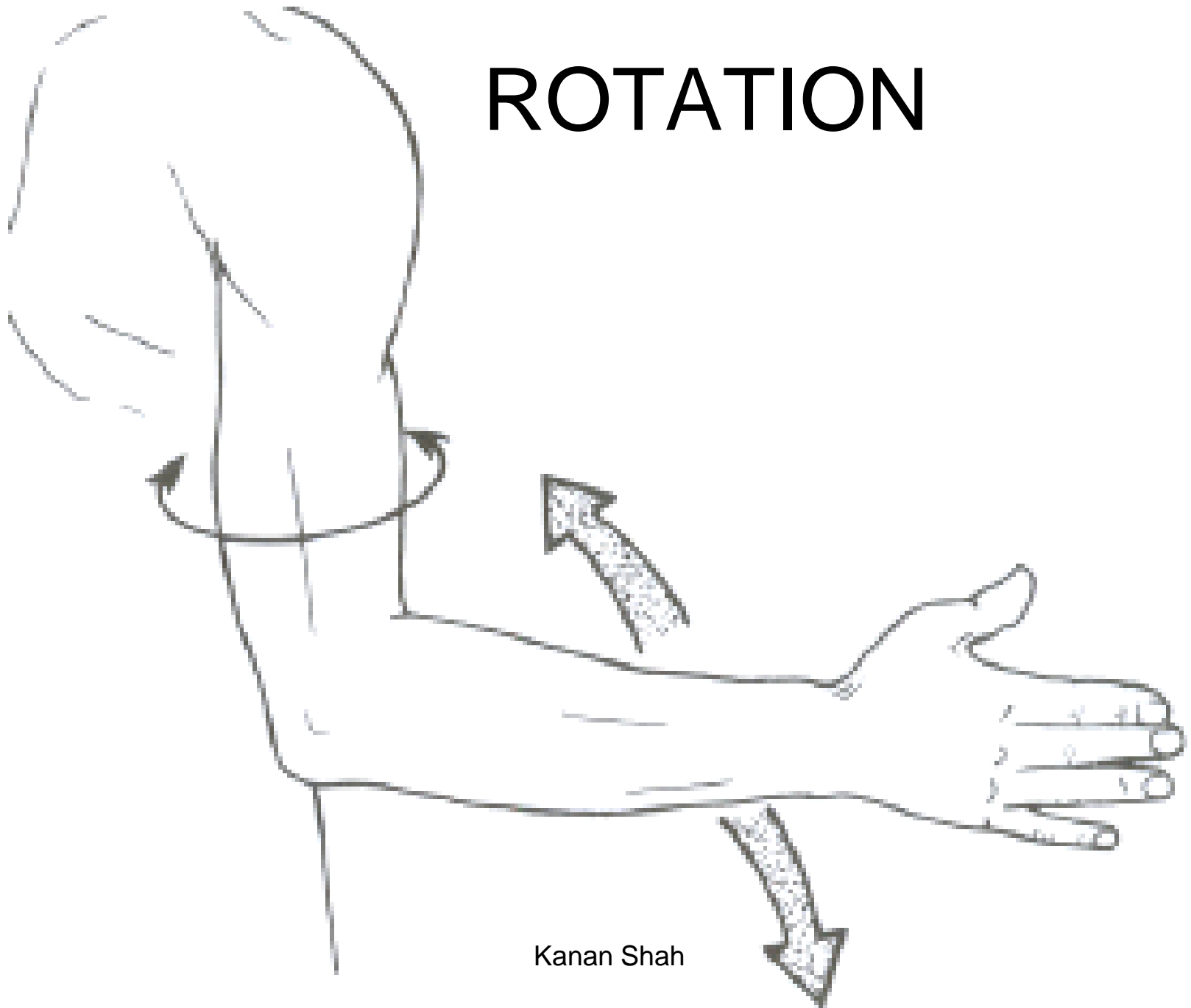


# NEUROVASCULAR SUPPLY

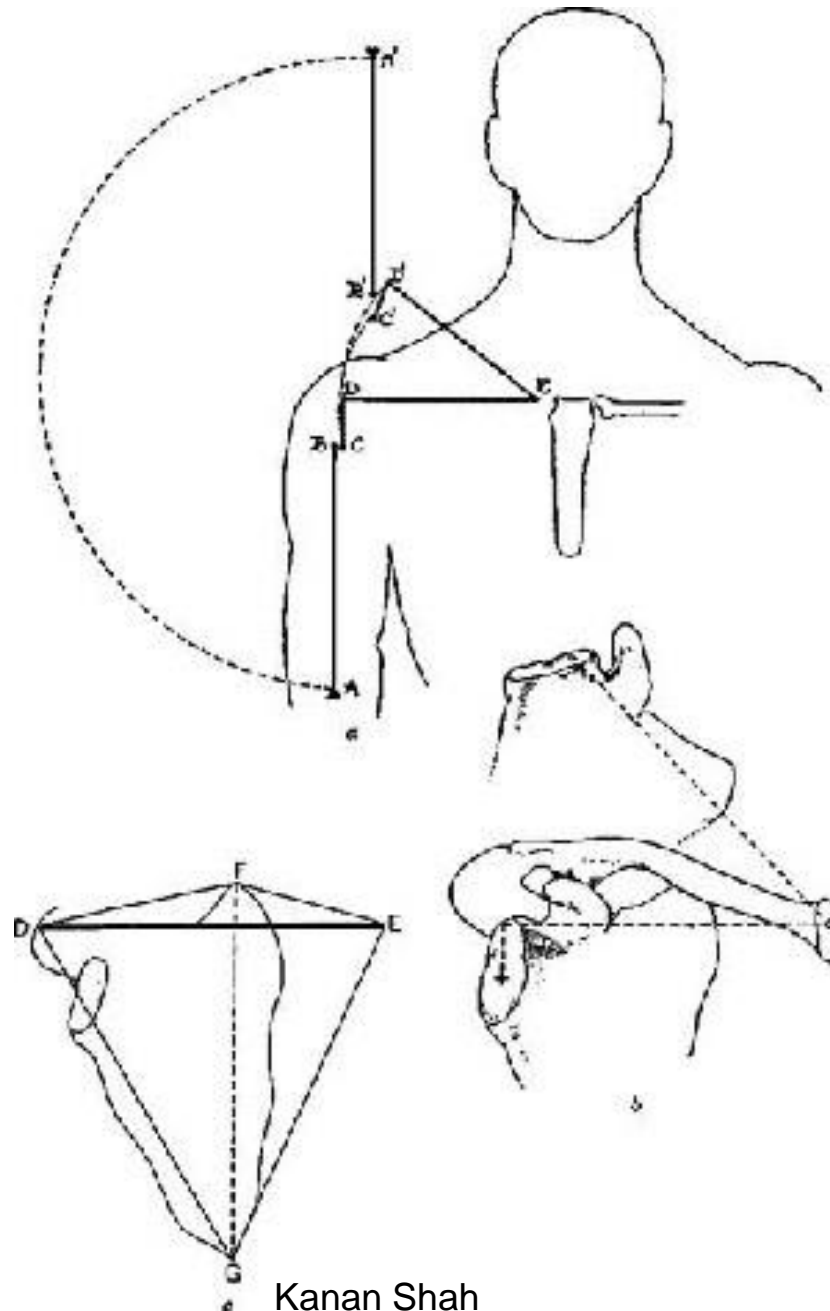
# MOVEMENTS



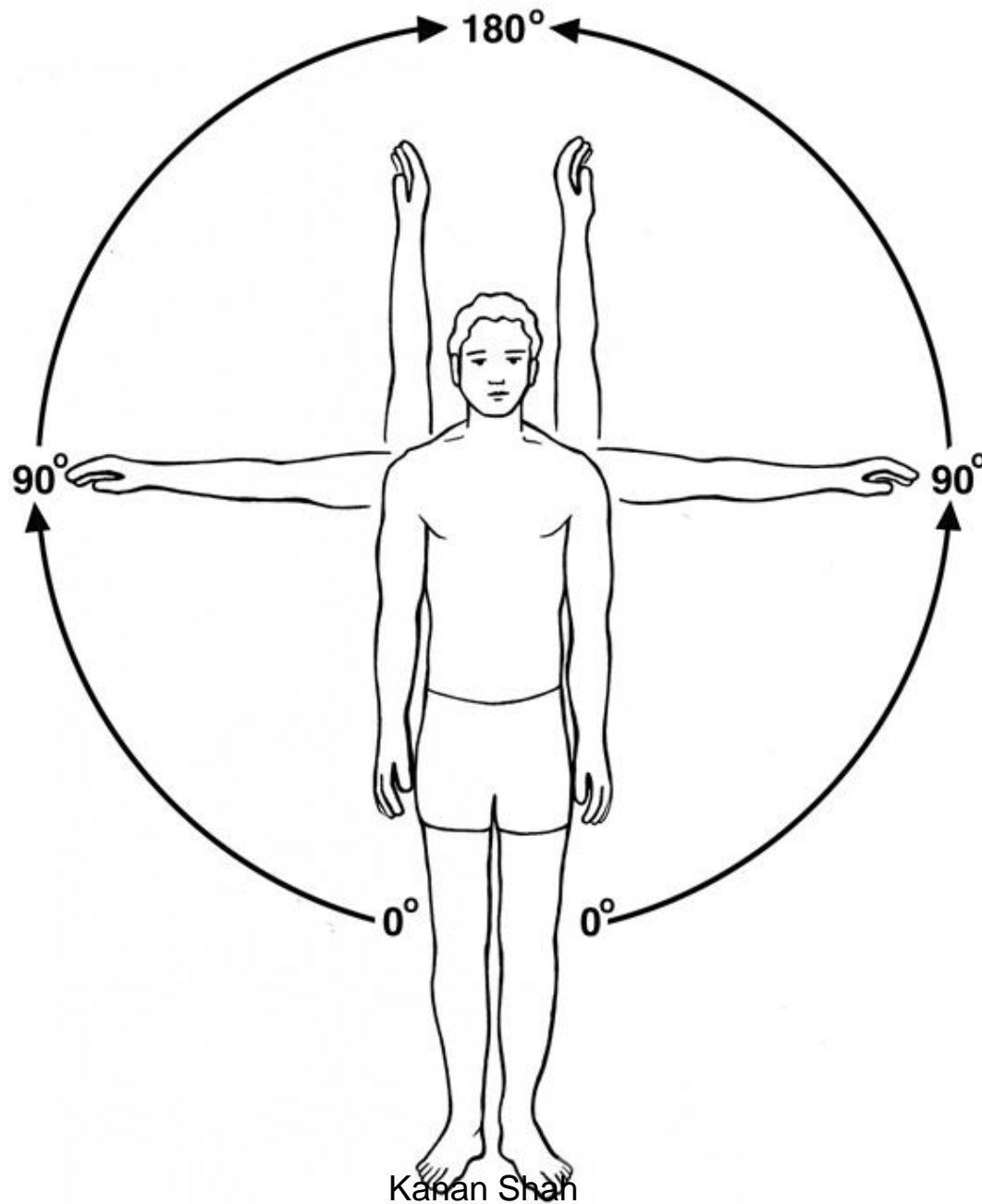
# ROTATION



- Abduction of shoulder joint



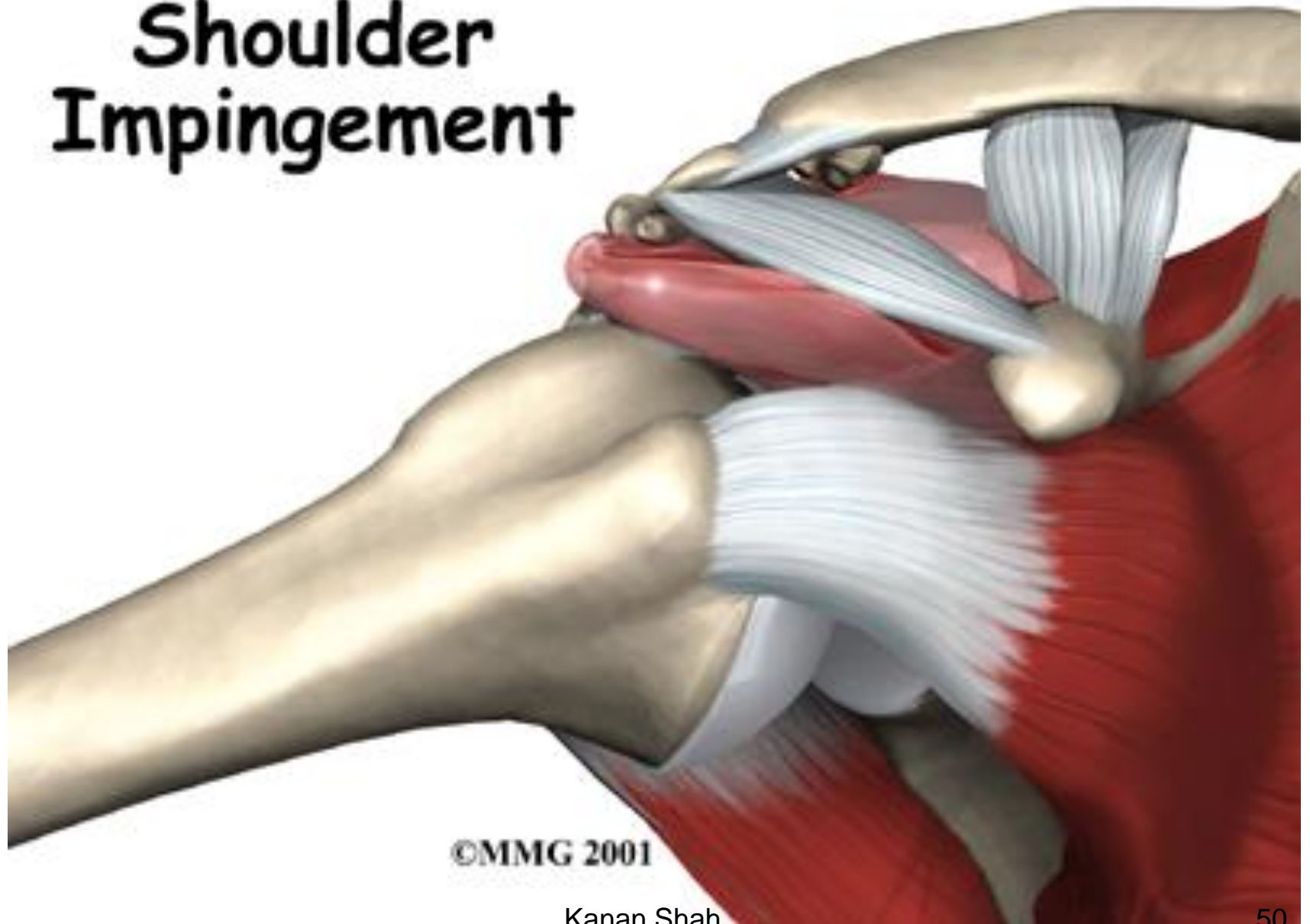




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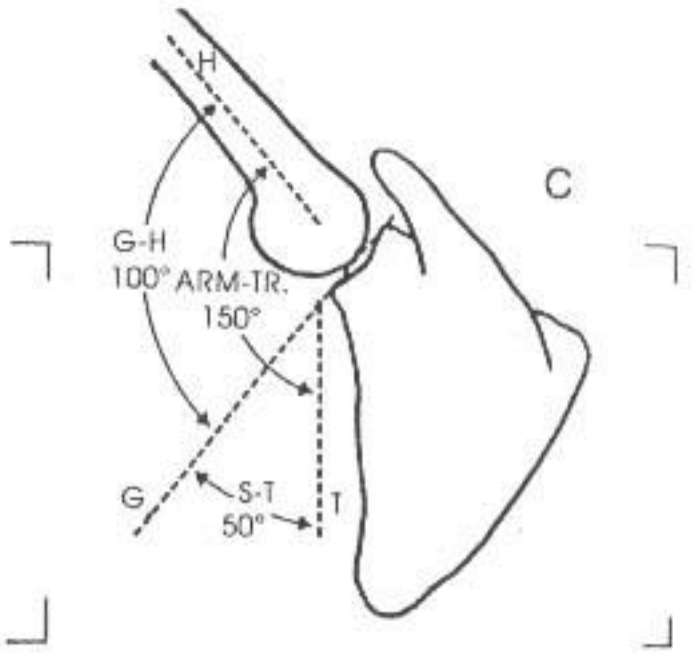
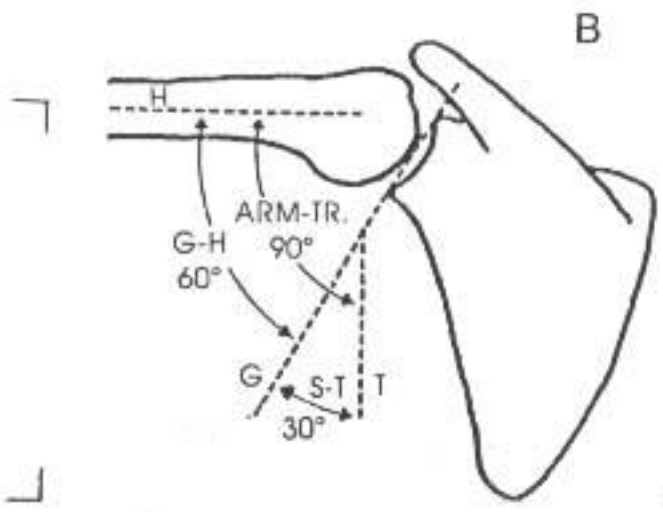
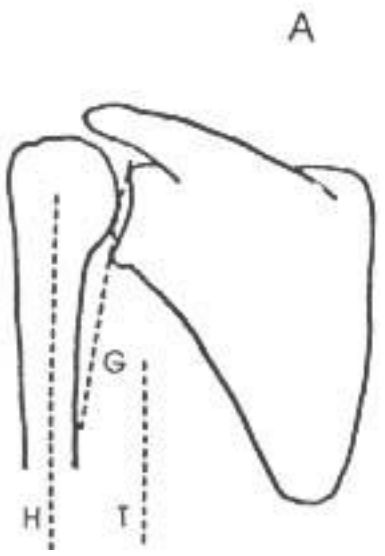
**Figure 11 - Abduction**

# Shoulder Impingement

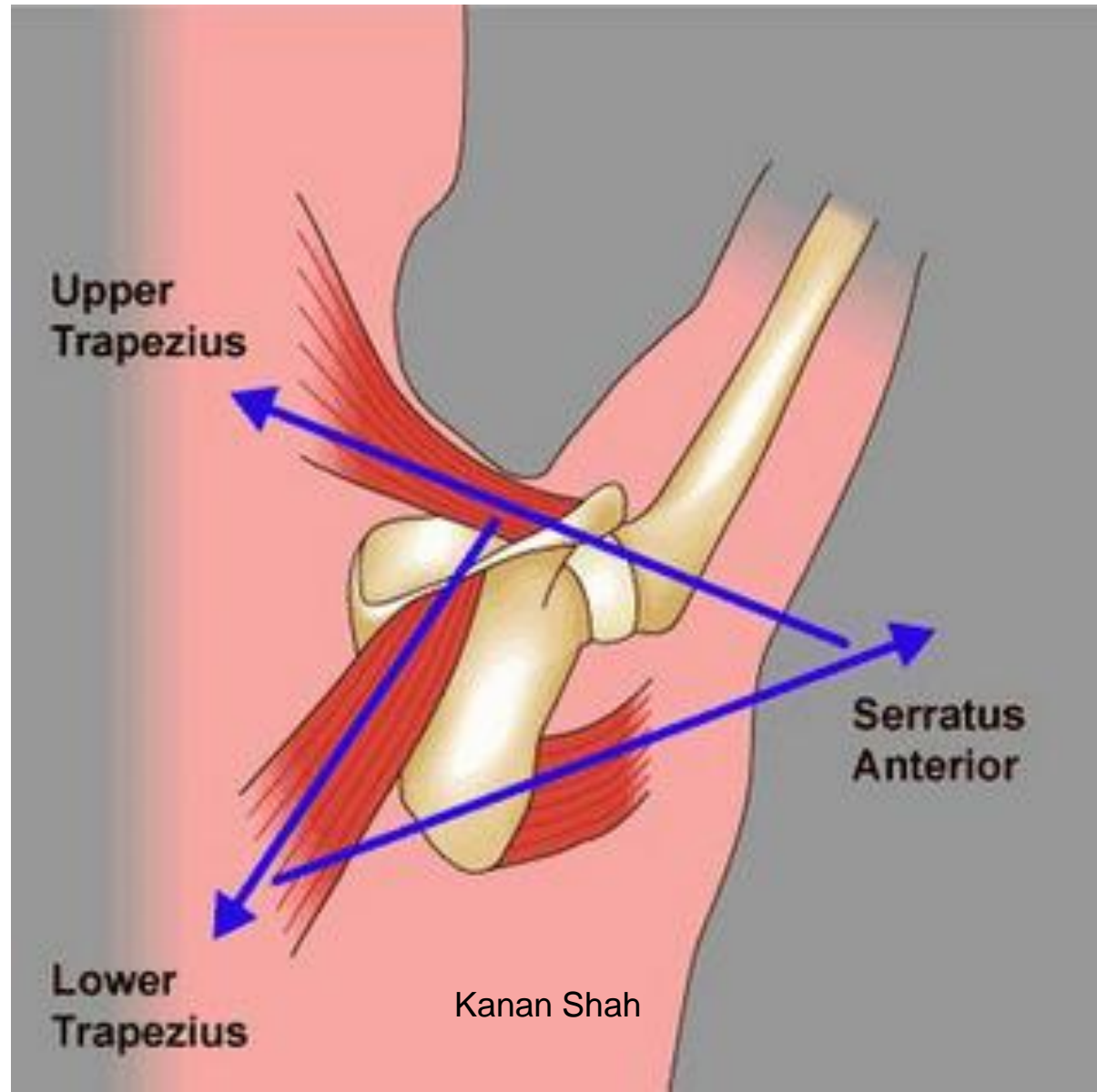


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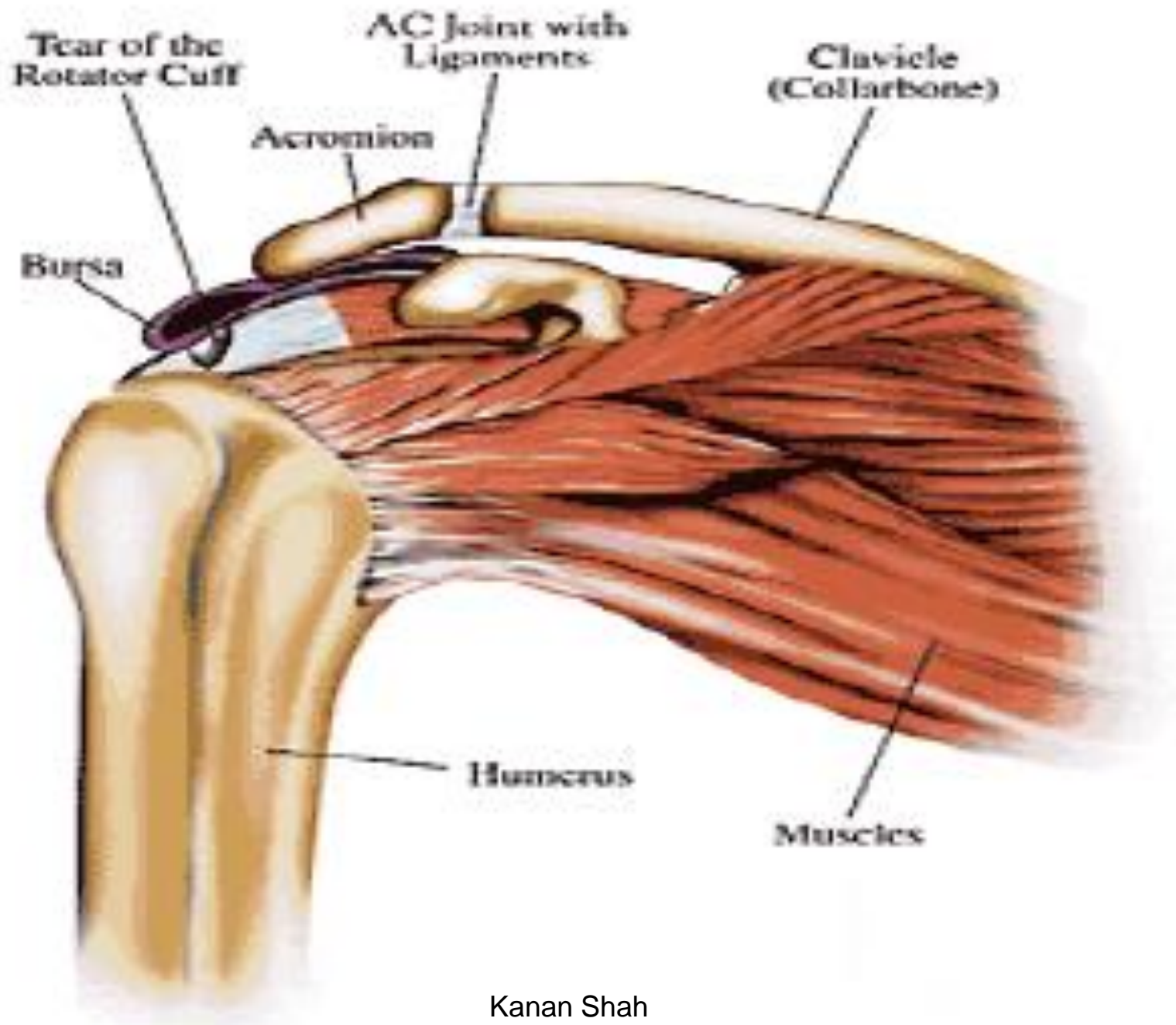


# AXIAL ROTATION OF CLAVICLE



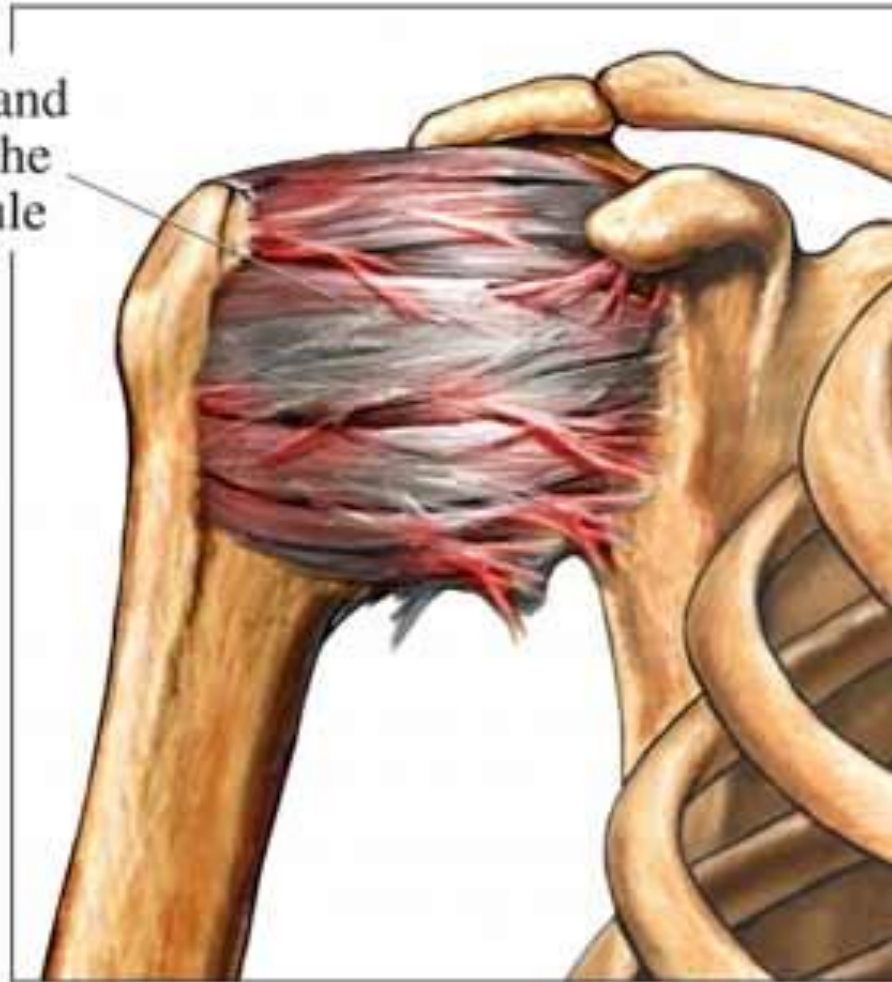
# APPLIED ANATOMY

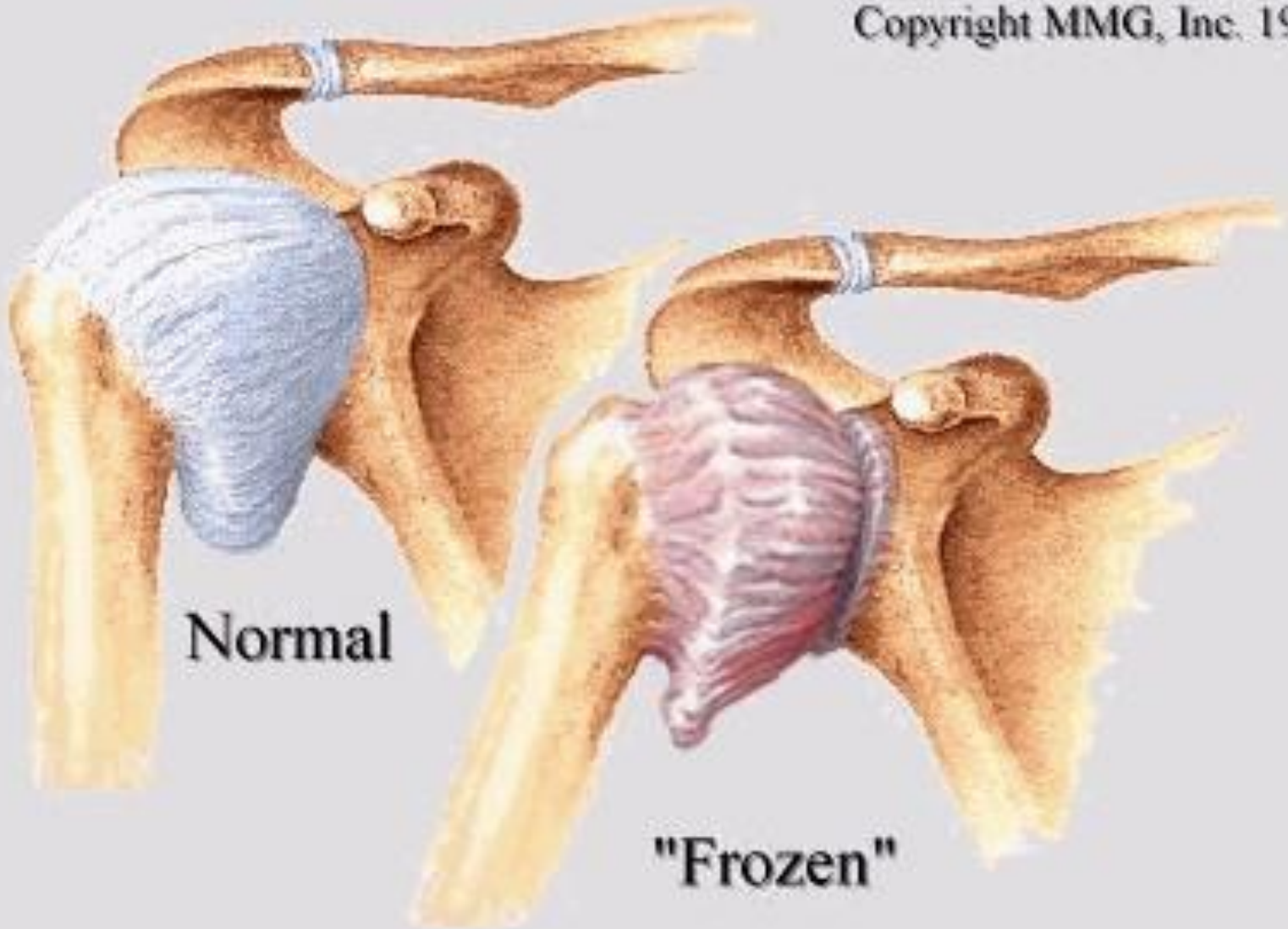
- DISLOCATION
- PAINFUL ARC SYNDROME
- FROZEN SHOULDER
- ARTHRODESIS
- SHOULDER TIP PAIN
- DAWBARN'S SIGN



# FROZEN SHOULDER

Inflammation and thickening of the shoulder capsule



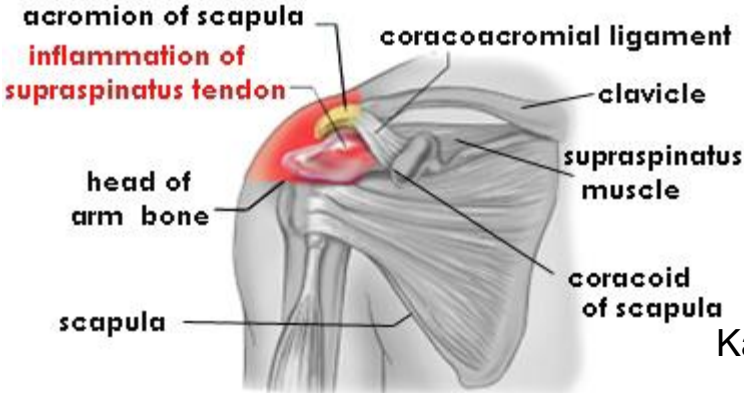
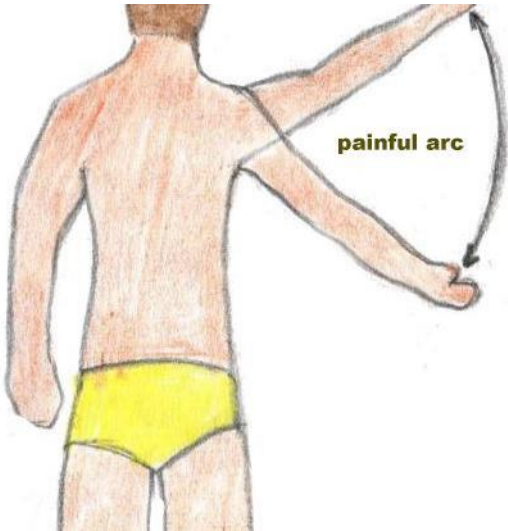
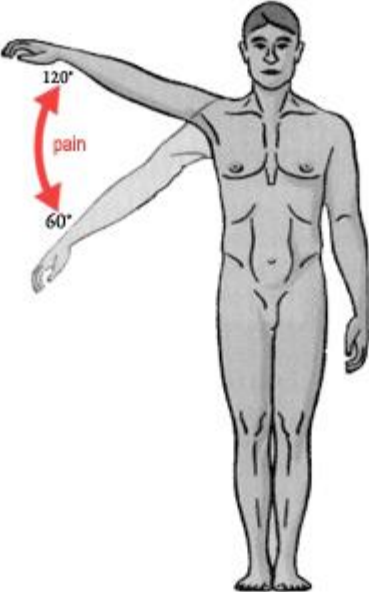


Normal

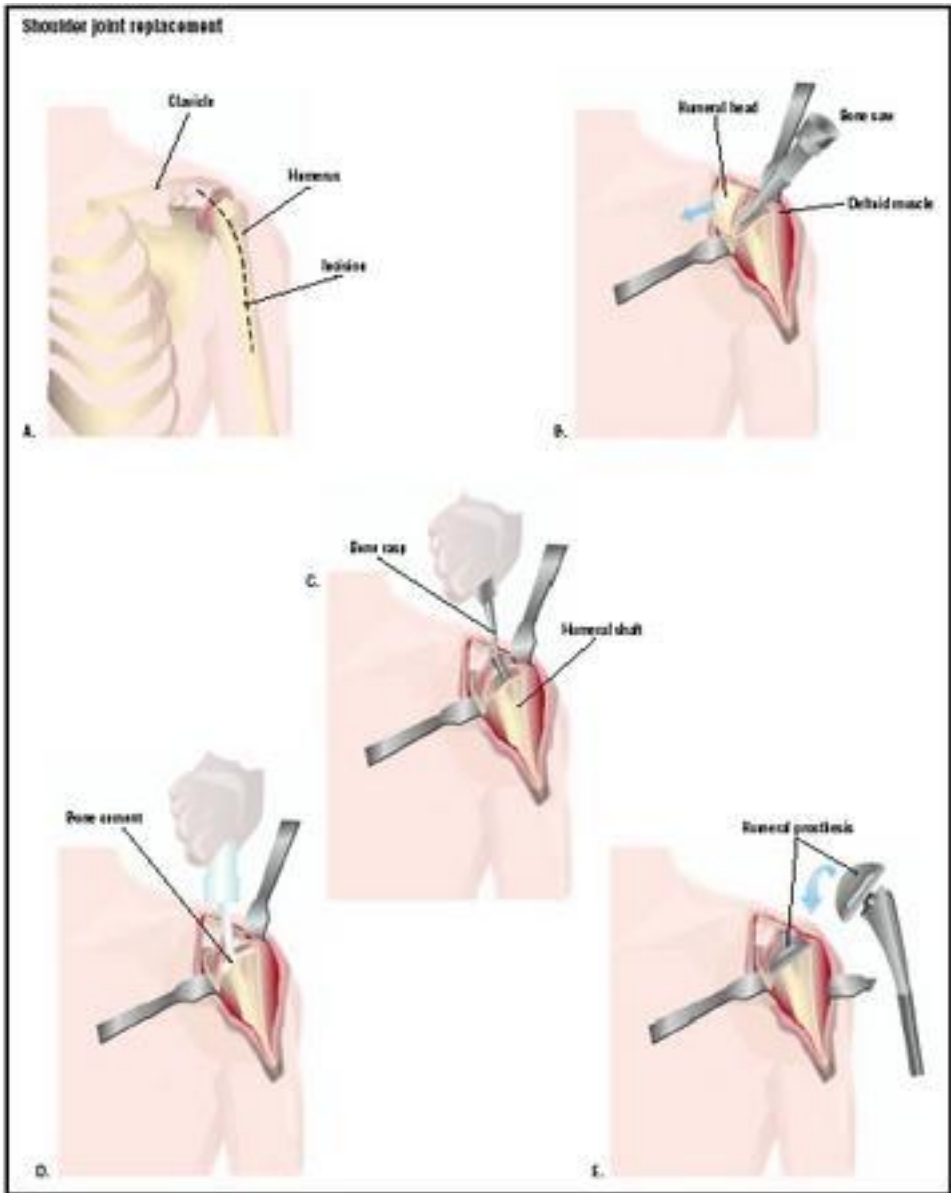
"Frozen"



# PAINFUL ARC SYNDROME



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# Aknowledgements

- Human Anatomy by BD Chaurasia
- Gray's Anatomy
- Essentials of Human Antomy: Upper Limb and Lower Limb by Asimkumar Dutta