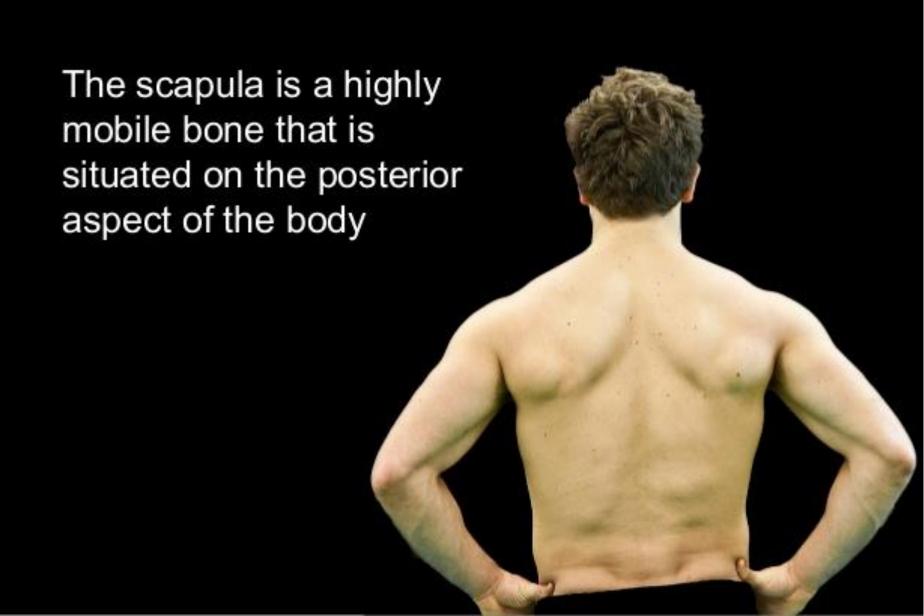
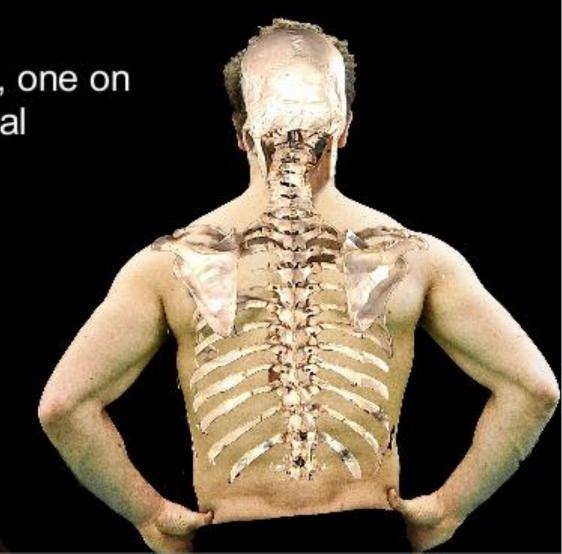
# ANATOMY OF SCAPULA BONE

# DR NAJMA ATTAULLAH LECTURER KGMC



The scapula is best viewed from behind

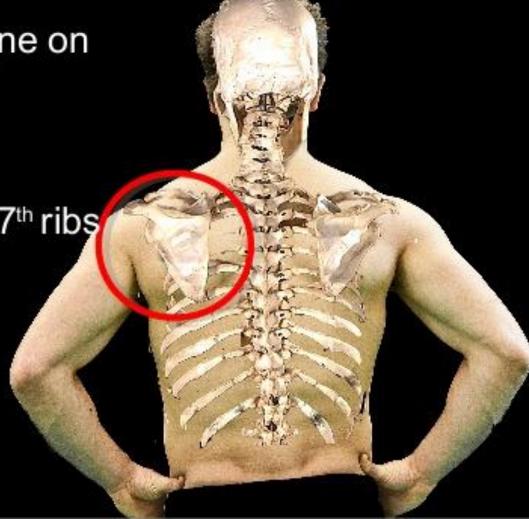
There are 2 scapulae, one on either side of the spinal column



The scapula is best viewed from behind

There are 2 scapulae one on either side of the spinal column

Each overlies the 2<sup>nd</sup> – 7<sup>th</sup> ribs



Anterior View

The scapula is a flat

triangular-shaped bone

It has a number of

interesting projections



Lateral View

Anterior

The scapula is a flat

triangular-shaped bone

It has a number of

interesting projections

best viewed from the lateral aspect



The scapula has two surfaces

Anterior / Ventral surface Posterior / Dorsal Surface



The Dorsal surface of the Scapula is divided into two regions by the spine of the Scapula



The region below the

Scapular Spine is the

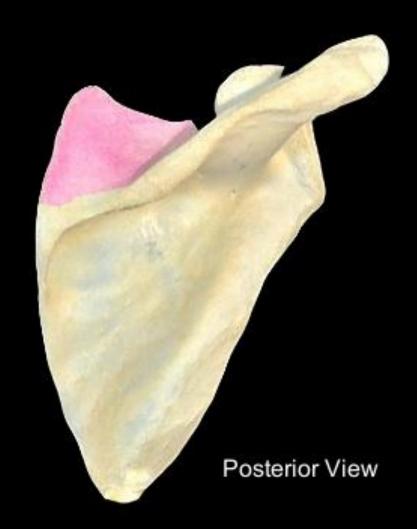
Infraspinous Fossa



The region above the

Scapular Spine is the

Supraspinous Fossa



Supraspinous Fossa is more clearly viewed from above

Anterior



Superior View

## The scapula has 3 borders

#### Medial Border



Anterior View

Right Side

## The scapula has 3 borders

#### Lateral Border



Anterior View

Right Side

## The scapula has 3 borders

Superior Border





Anterior View

Posterior View

# The scapula has 3 angles

Superior Angle





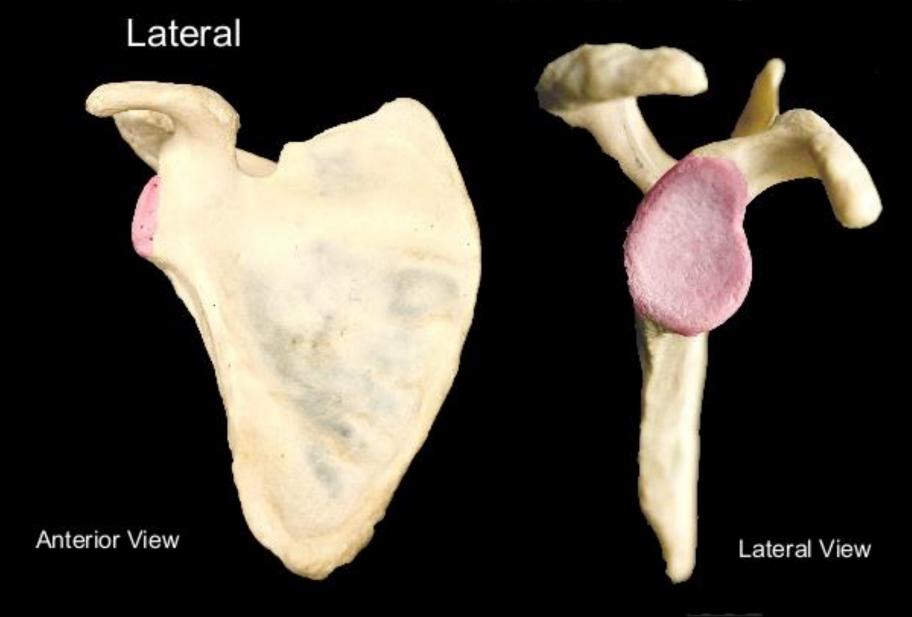
Anterior View

Posterior View

The scapula has 3 angles



# The scapula has 3 angles



The scapula has 3 lateral projections

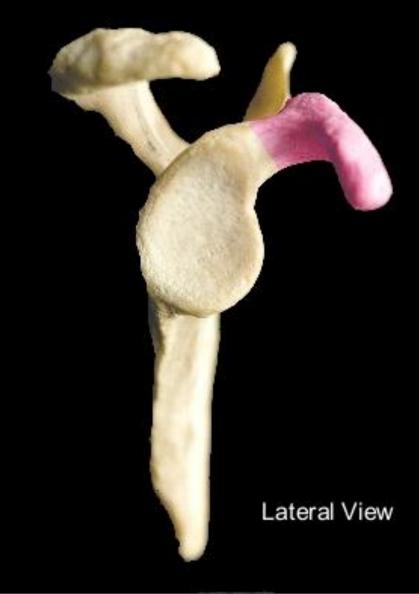
Coracoid

Spine

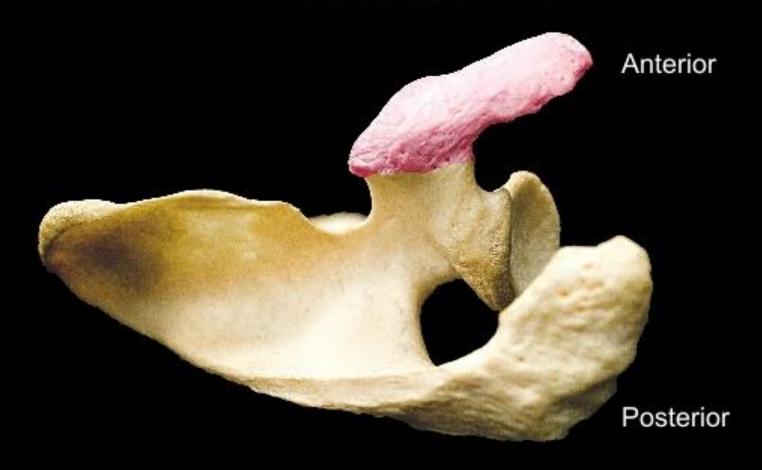
Acromion

## Coracoid Process





## Concernation of the Concession of the Concession



Superior View

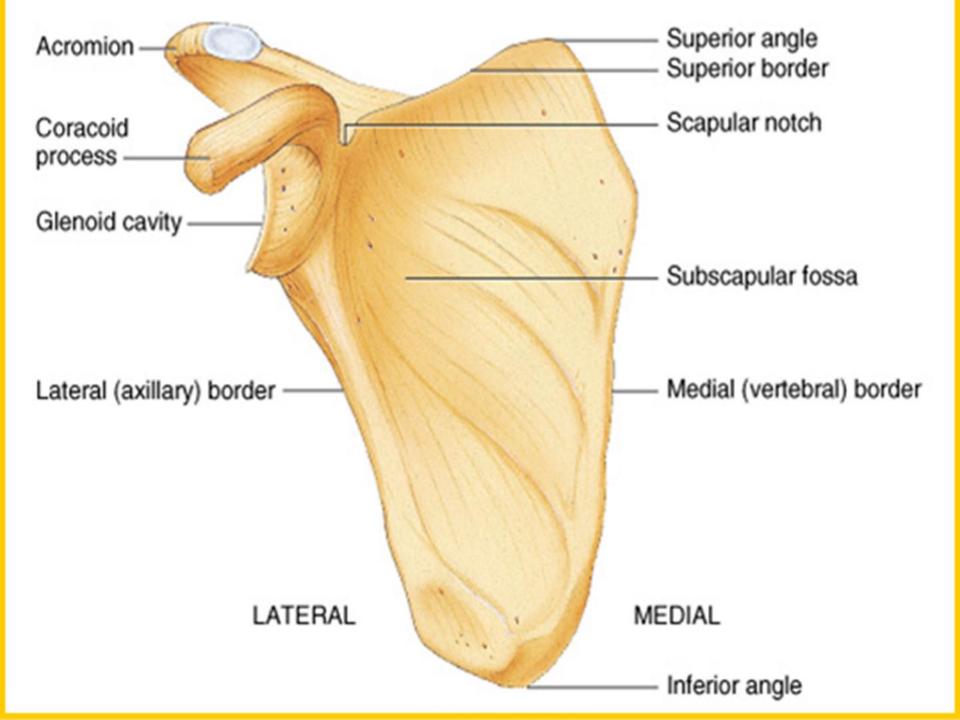
# Acromion

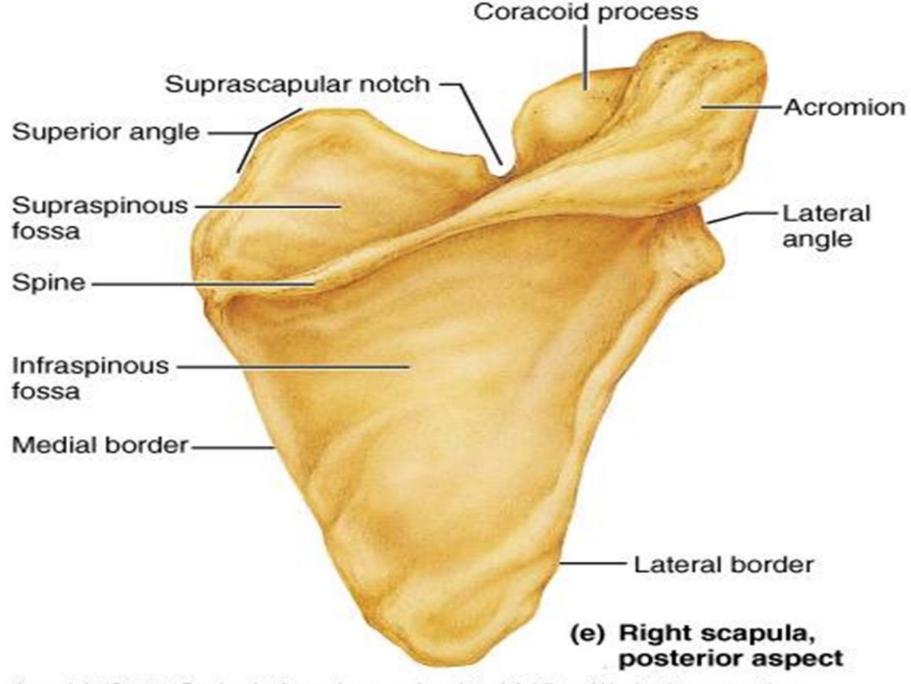


## Acromion

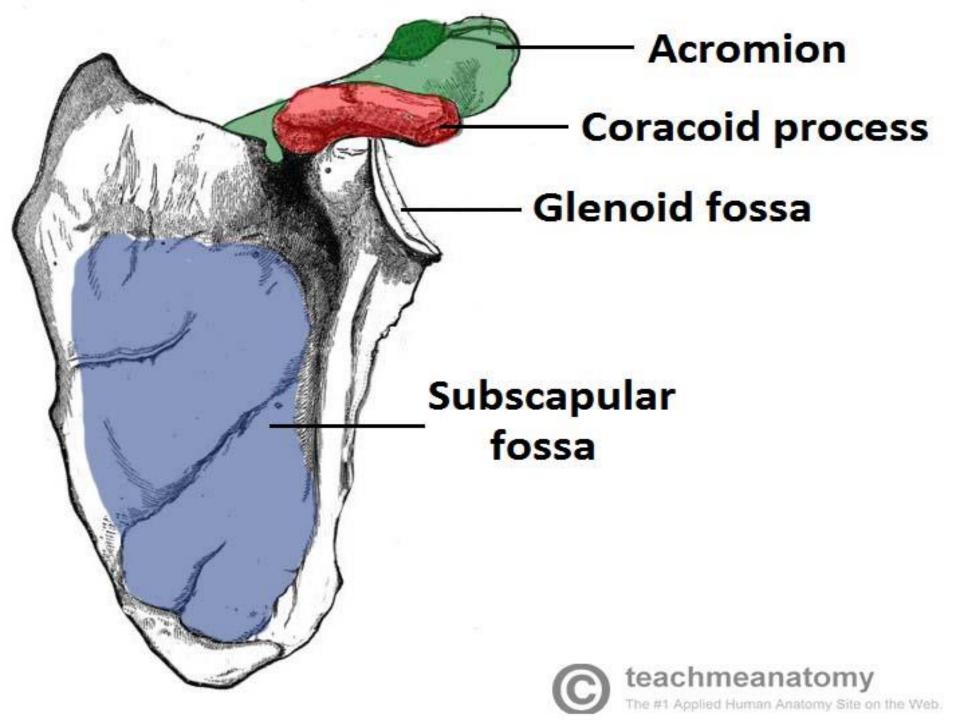


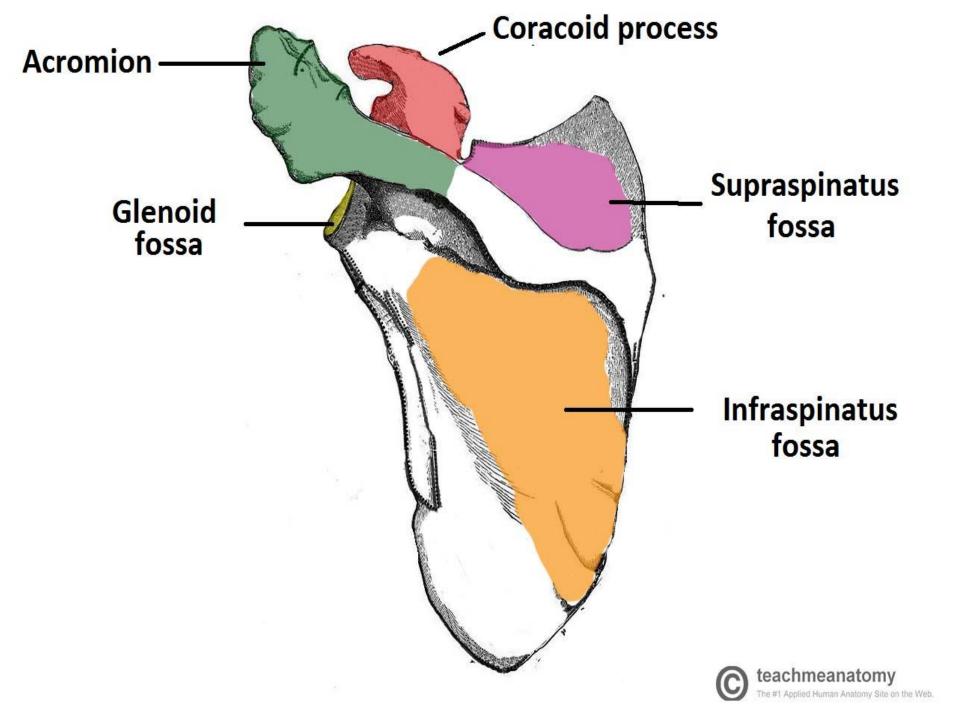
Superior View

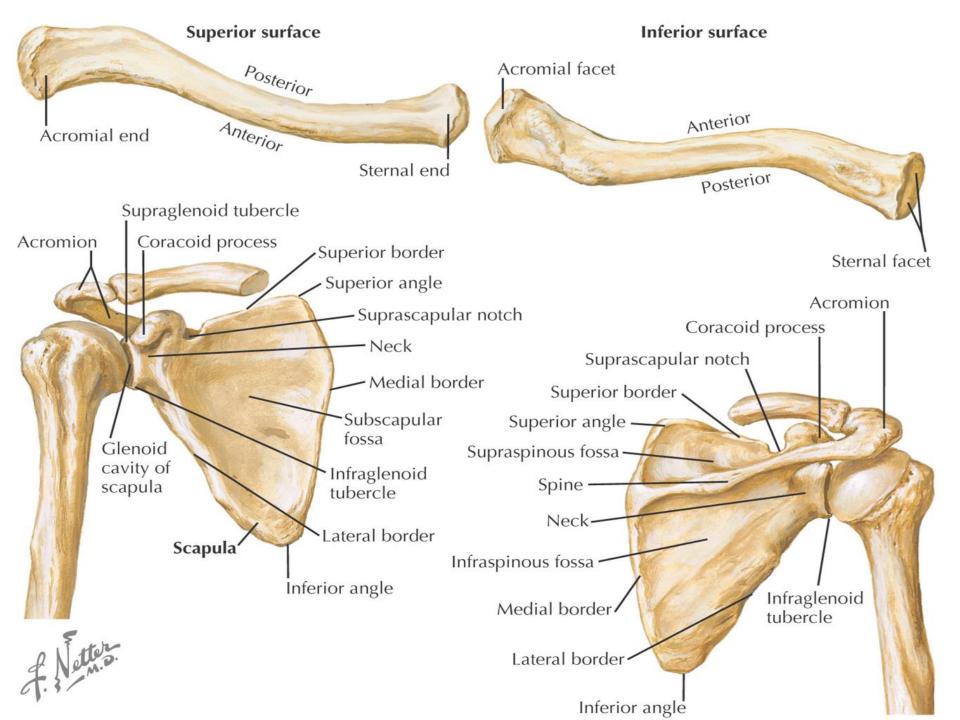




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A number of muscles attach to the scapula

Four Rotator Cuff Muscles surround the Shoulder Joint and move the Arm

Subscapularis

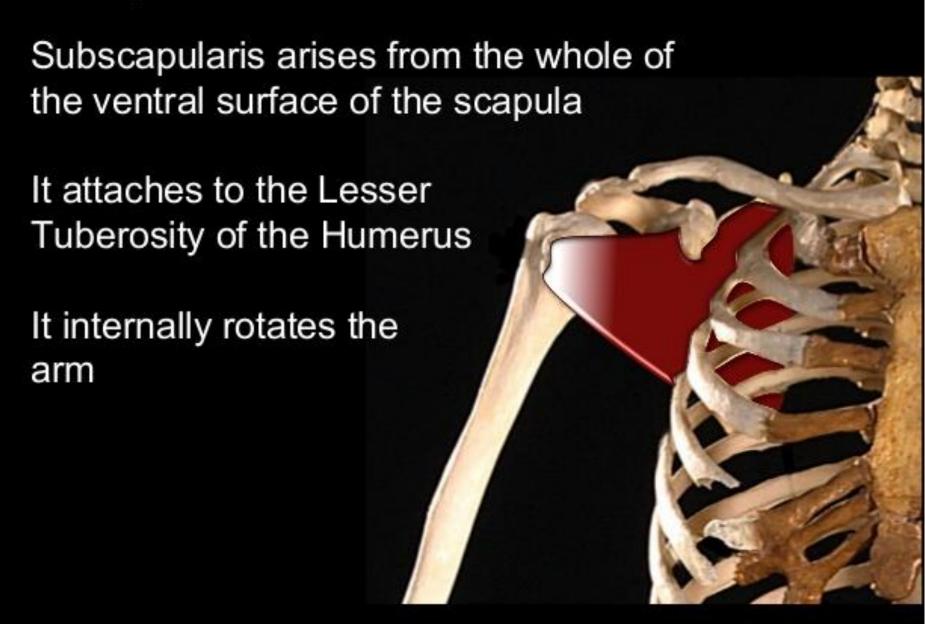
Supraspinatus

Infraspinatus

Teres Minor

Subscapularis arises from the whole of the ventral surface of the Scapula





Supraspinatus arises from the Supraspinous Fossa

It attaches to the upper part of the Greater Tuberosity of the Humerus

It abducts the arm



Infraspinatus arises from the Infraspinous Fossa



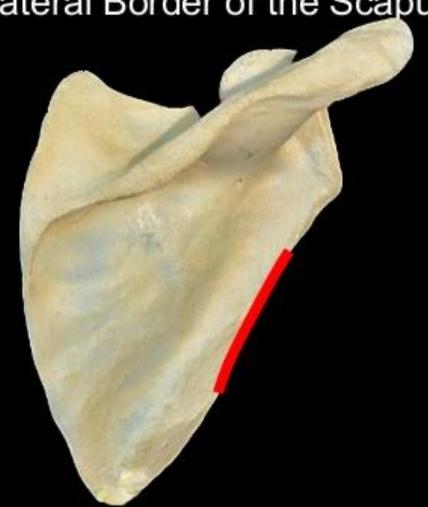
Infraspinatus arises from the Infraspinous Fossa

It attaches to the posterior part of the Greater Tuberosity of the Humerus

It externally rotates the arm



Teres Minor arises from the upper part of the Lateral Border of the Scapula



Teres Minor arises from the upper part of the Lateral Border of the Scapula

It attaches to the Inferior part of the Greater Tuberosity of the Proximal Humerus

It externally rotates the arm



# Serratus Anterior arises from the whole of the anterior aspect of the medial border



Anterior View

# Serratus Anterior arises from the whole of the anterior aspect of the medial border

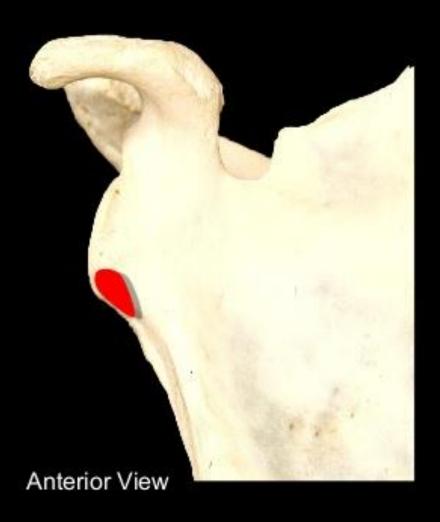




Anterior View

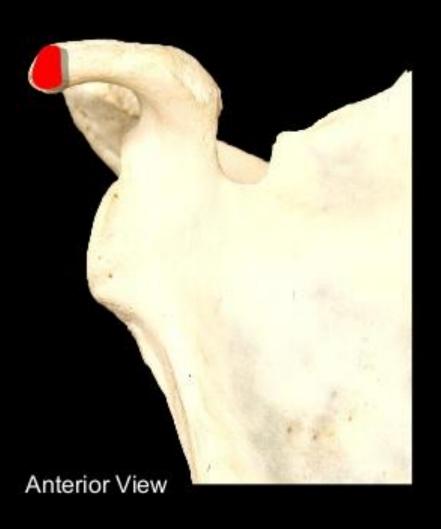
Long head of Triceps arises from the

infraglenoid tubercle





The tip of the coracoid process give rise to the conjoint tendon of the Coracobrachialis





The tip of the coracoid process give rise to the conjoint tendon of the Coracobrachialis and





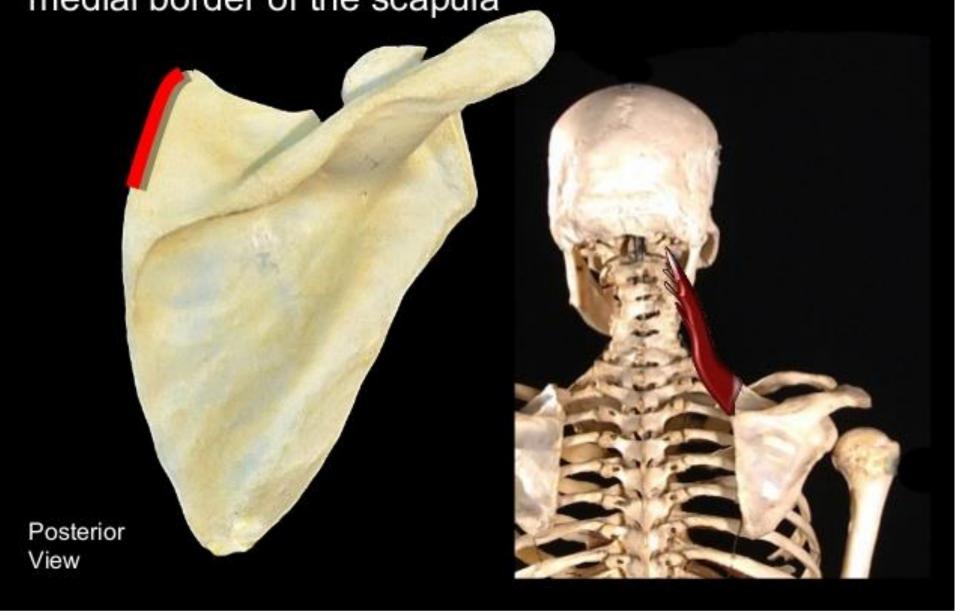


# Pectoralis minor arises from the coracoid process

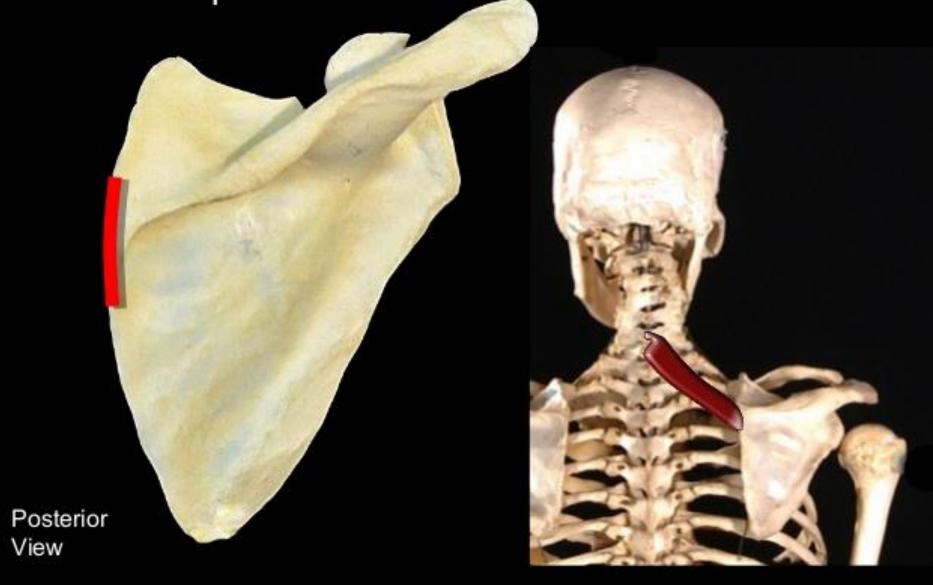




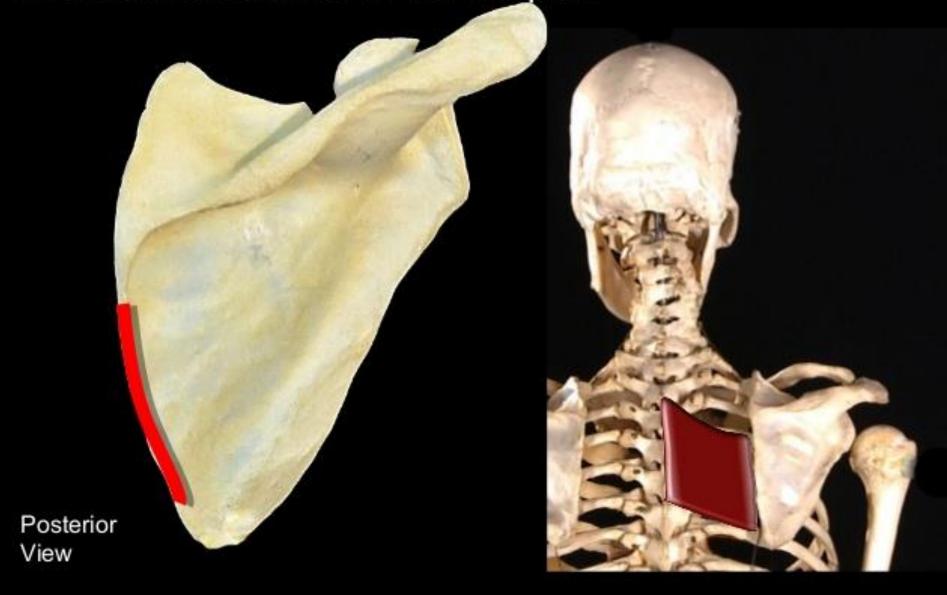
Levator Scapulae attaches to the superior part of the medial border of the scapula



Rhomboid minor attaches just below Levator Scapulae on the medial border

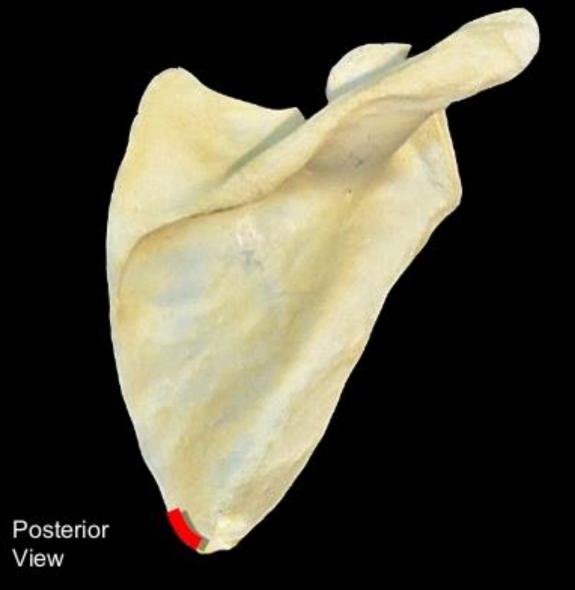


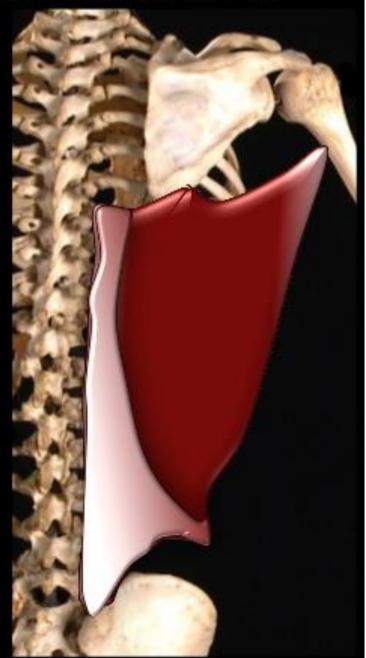
Rhomboid Major attaches just below Rhomboid Minor on the medial border of the scapula



Latissimus Dorsi has a few fibres that arise from the

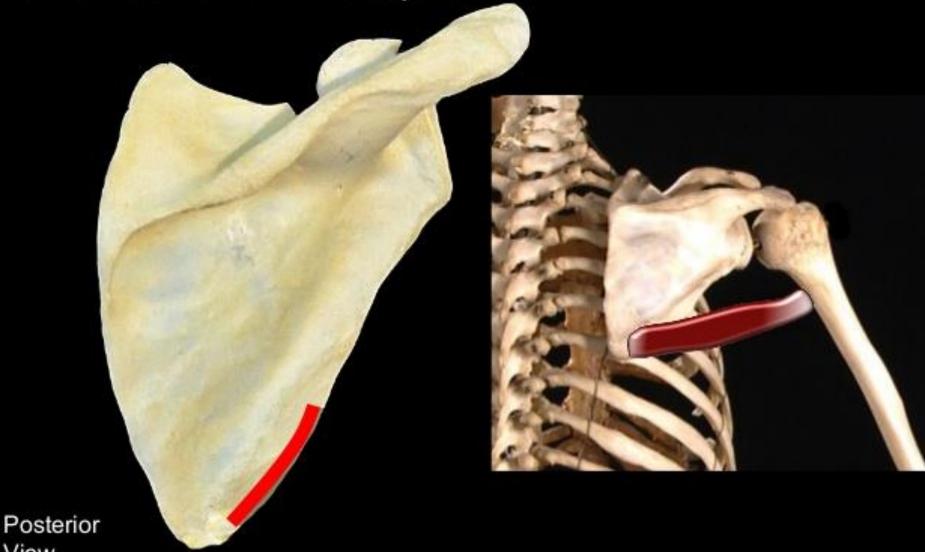
inferior angle of the scapula



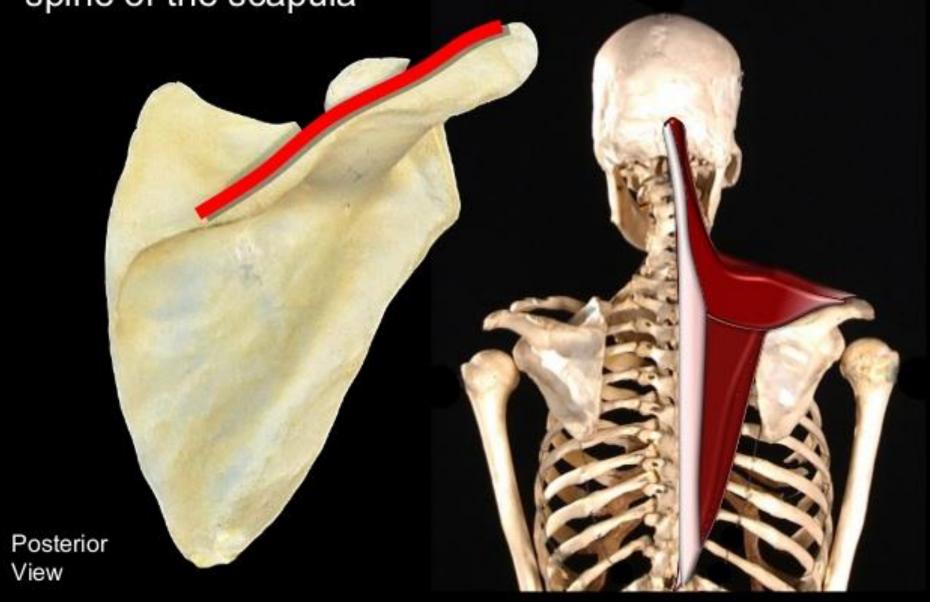


Teres Major arises from the inferior aspect of the lateral border of the scapula

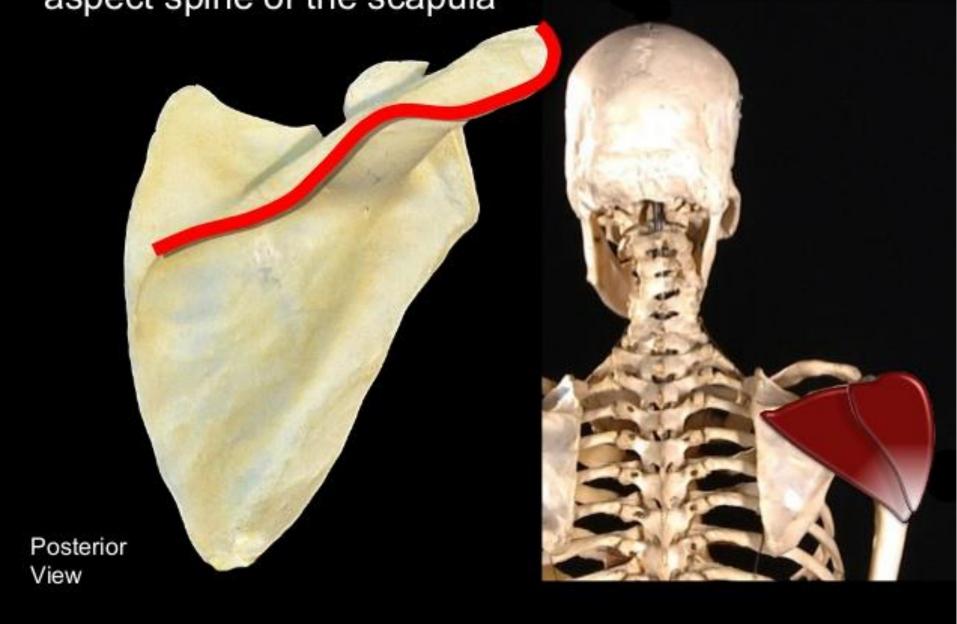
View



Trapezius arises from the superior aspect of the spine of the scapula



The posterior fibres of Deltoid arise from the inferior aspect spine of the scapula



Summary of muscles that arise from the scapula	
Biceps (both heads)	Rhomboid Minor
Coracobrachialic	Sorratus Antorior

Coracoprachians

Deltoid

Infraspinatus

Levator Scapulae Latissimus Dorsi

Pectoralis Minor

Rhomboid Major

Serratus Anterior

Subscapularis

Supraspinatus

Triceps (Long Head)

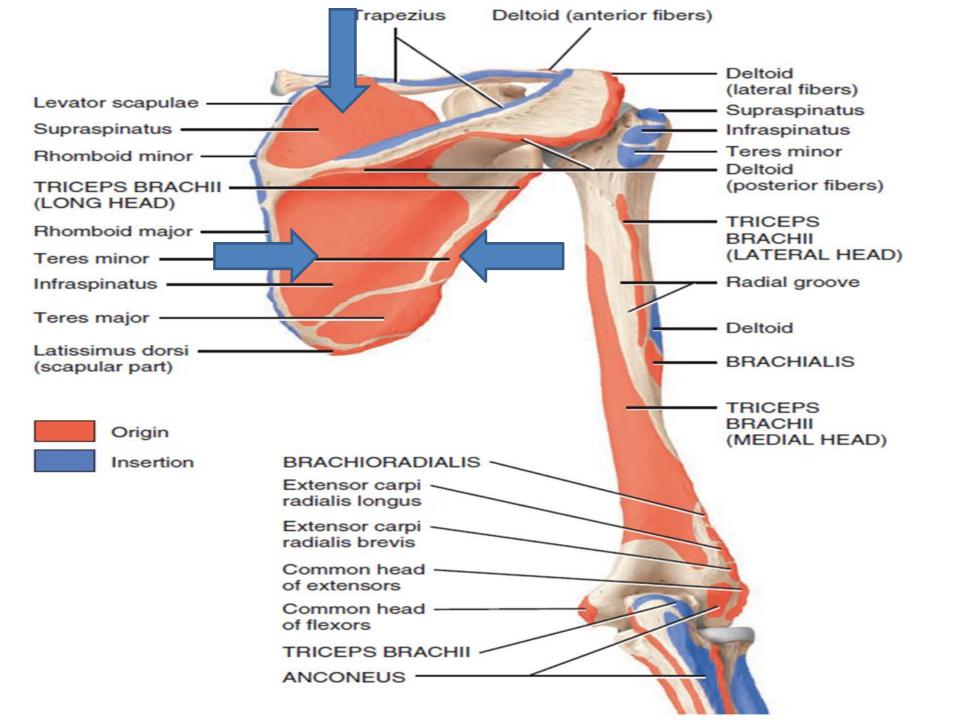
Teres Major

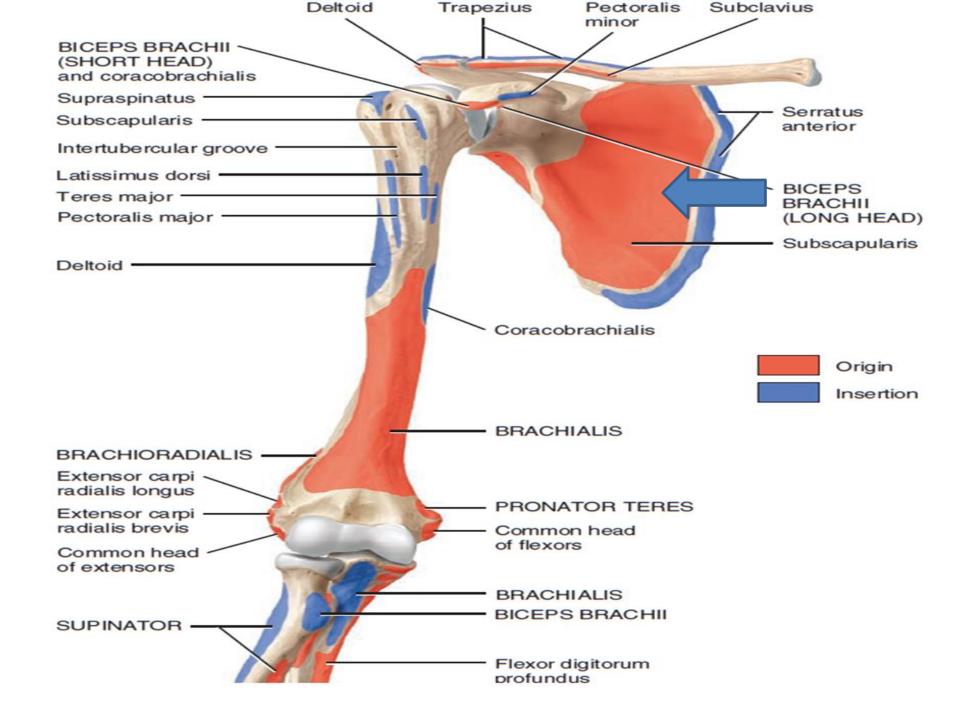
**Teres Minor** 

Trapezius

### ROTATOR CUFF MUSCLES

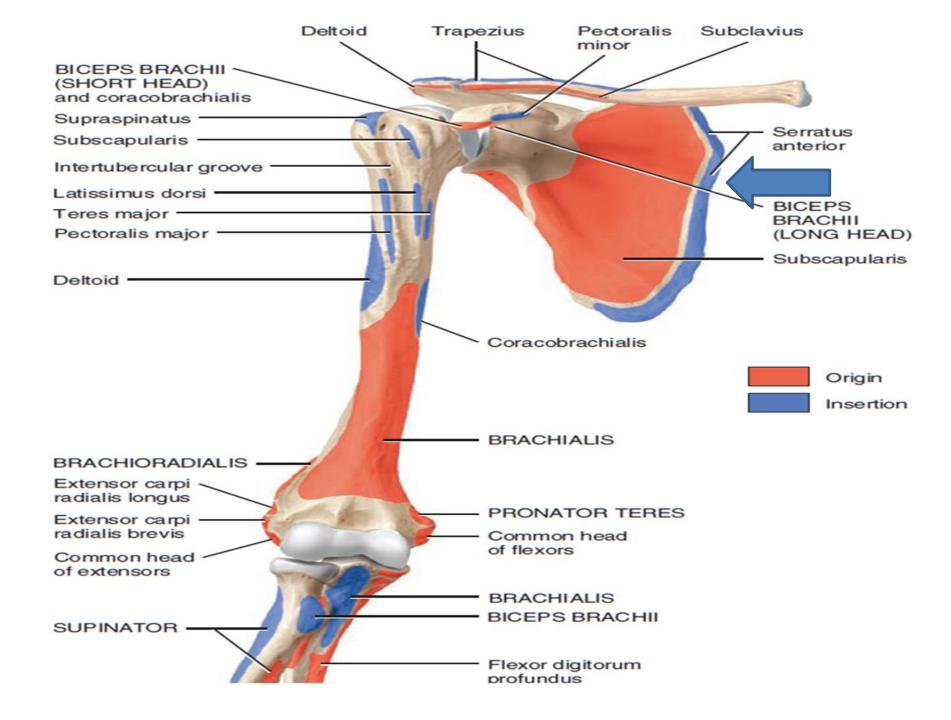
- SUPRASPINATUS.....supraspinous fossa
- INFRASPINATUS.....infraspinous fossa
- SUBSCAPULARIS.....whole of vental surface
- TERES MINOR...Lateral border of scapula





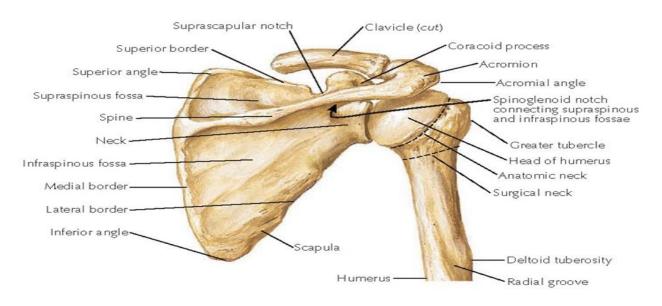
## OTHER MUSCLES

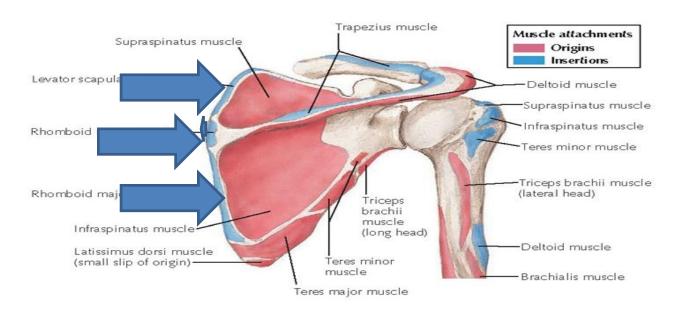
- MEDIAL BORDER....
- SERRATUS ANTERIOR...whole of anterior surface
- LEVATOR SCAPULAE.... superior aspect
- RHOMBOID MINOR
- RHOMBOID MAJOR



### Musculoskeletal System: PART I

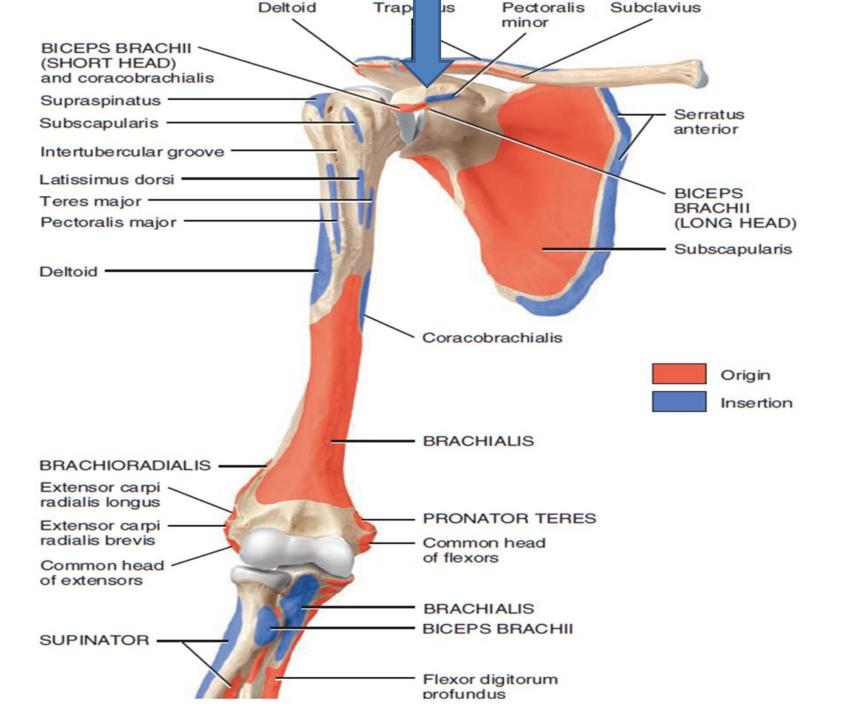
### SCAPULA AND HUMERUS: POSTERIOR VIEW





### CORACOID PROCESS

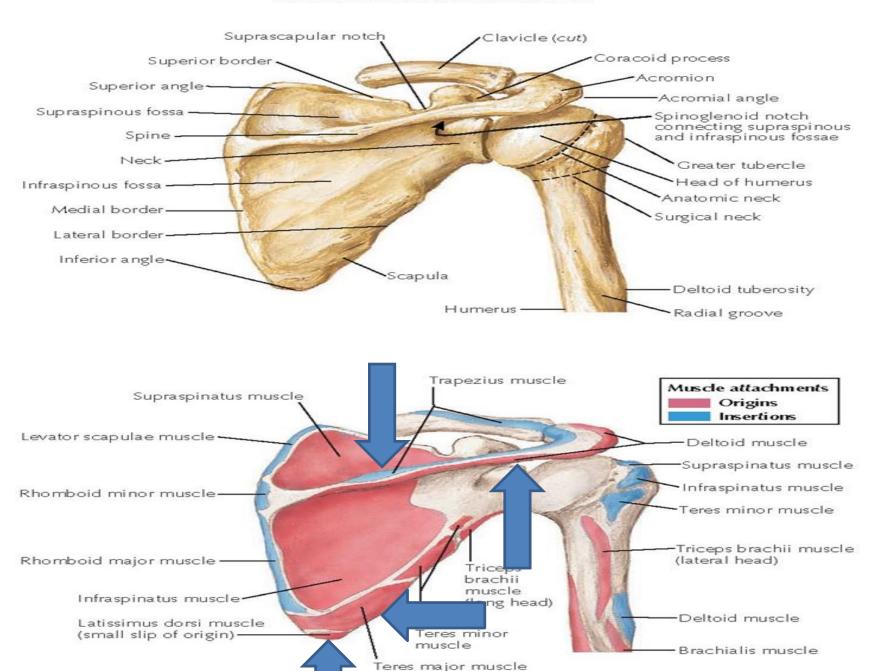
- CHORACO BRACHIALIS
- SHORT HEAD OF BICEPS
- PECTORALIS MINOR



## OTHER MUSCLES

- LATISSMUS DORSI....INFERIOR ANGLE
- TERES MAJOR ...LATERAL BORDER
- TRAPIZIUS...SUPERIOR ASPECT OF SINE
- DELTOID....INFERIOR ASPECT OF SPINE

### SCAPULA AND HUMERUS: POSTERIOR VIEW



### CLINICAL ANATOMY

- Scapular winging symptoms vary from person to person depending on the underlying cause as well as the muscles and nerves involved. Most people with scapular winging have a shoulder blade that sticks out. This can make sitting in a chair or wearing a backpack uncomfortable.
- If the winged scapula is the result of nerve damage, it can cause weakness in the muscles of your neck, shoulders, and arms. That weakness can make lifting, pulling, and pushing heavy objects hard.
- Scapular winging often affects your ability to raise your arm above your shoulder. It may also be associated with other symptoms, including:
- pain or discomfort in your neck, shoulders, and back

- Scapular winging is almost always caused by damage to one of three nerves that control muscles in your arms, back, and neck:
- the long thoracic nerve, which controls the serratus anterior muscle
- the dorsal scapular nerve, which controls the rhomboid muscles
- the spinal accessory nerve, which controls the trapezius muscle
- Injuries and surgeries can both cause damage to these nerves and muscles.