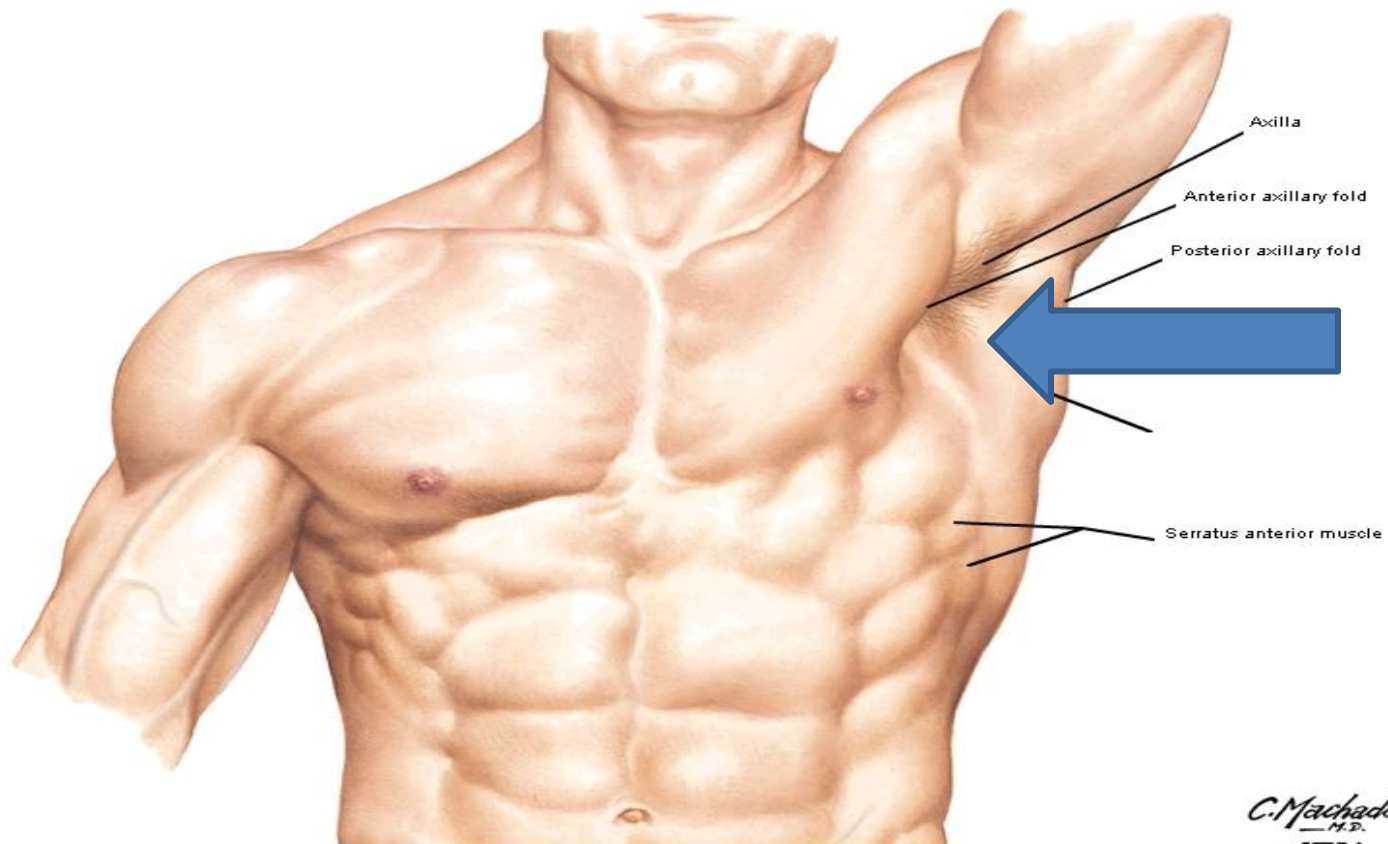


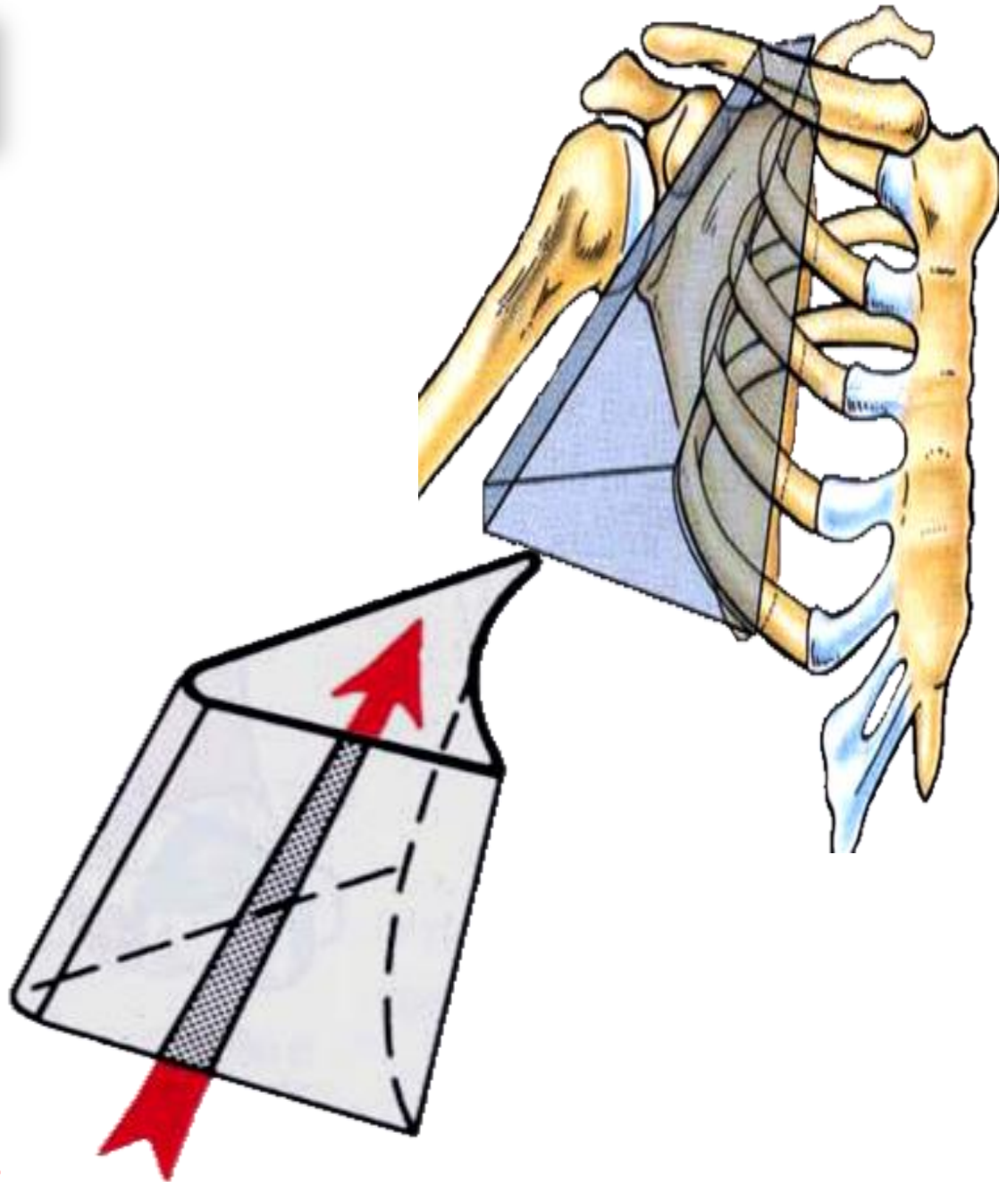
Anatomy of the Axilla

Axilla(Arm pit)



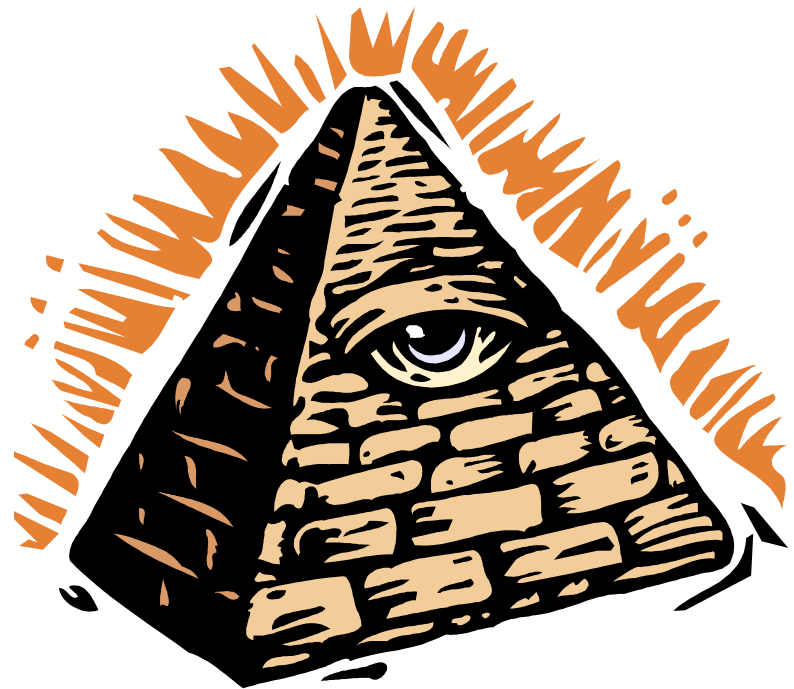
AXILLA

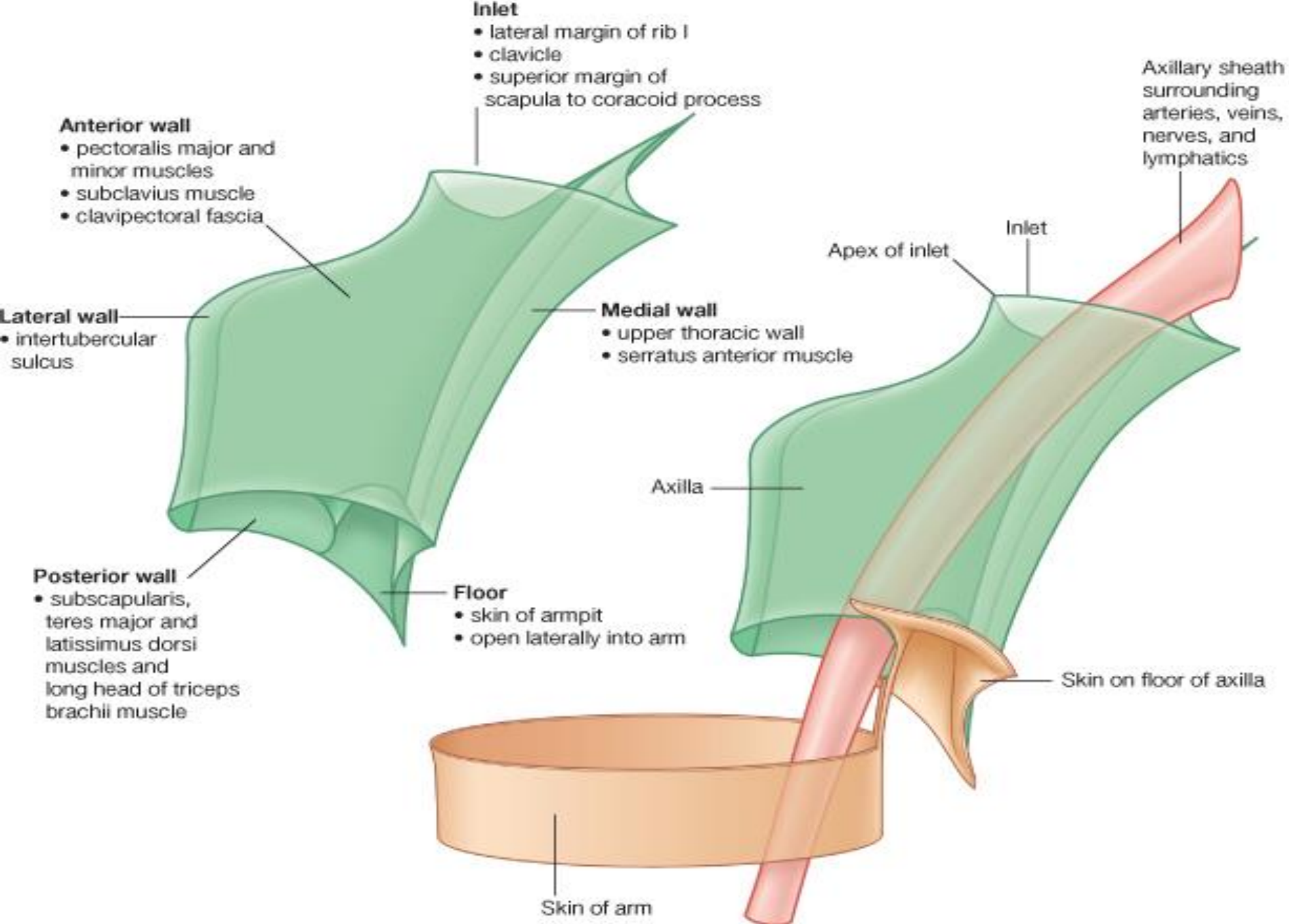
- A pyramid-shaped space between the upper part of the arm and the side of the chest through which major **neurovascular** structures pass between neck & thorax and upper limbs.
- Axilla has an **apex**, a **base** and **four walls**.



Axilla is a space

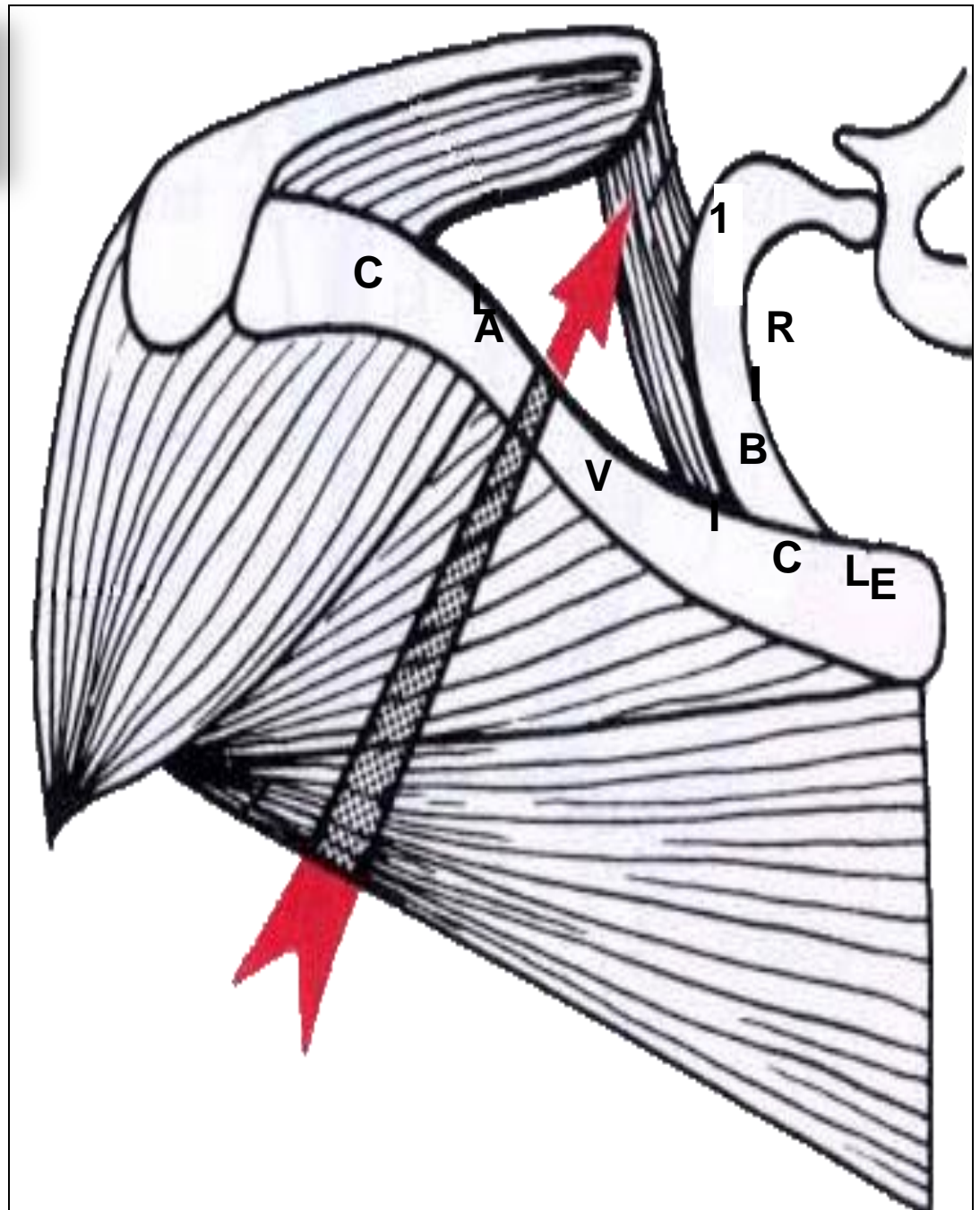
- 4 Sided pyramid
- Apex connected to the neck=Inlet
- Base Arm pit= Outlet
- Anterior wall
- Posterior wall
- Medial wall
- Lateral wall





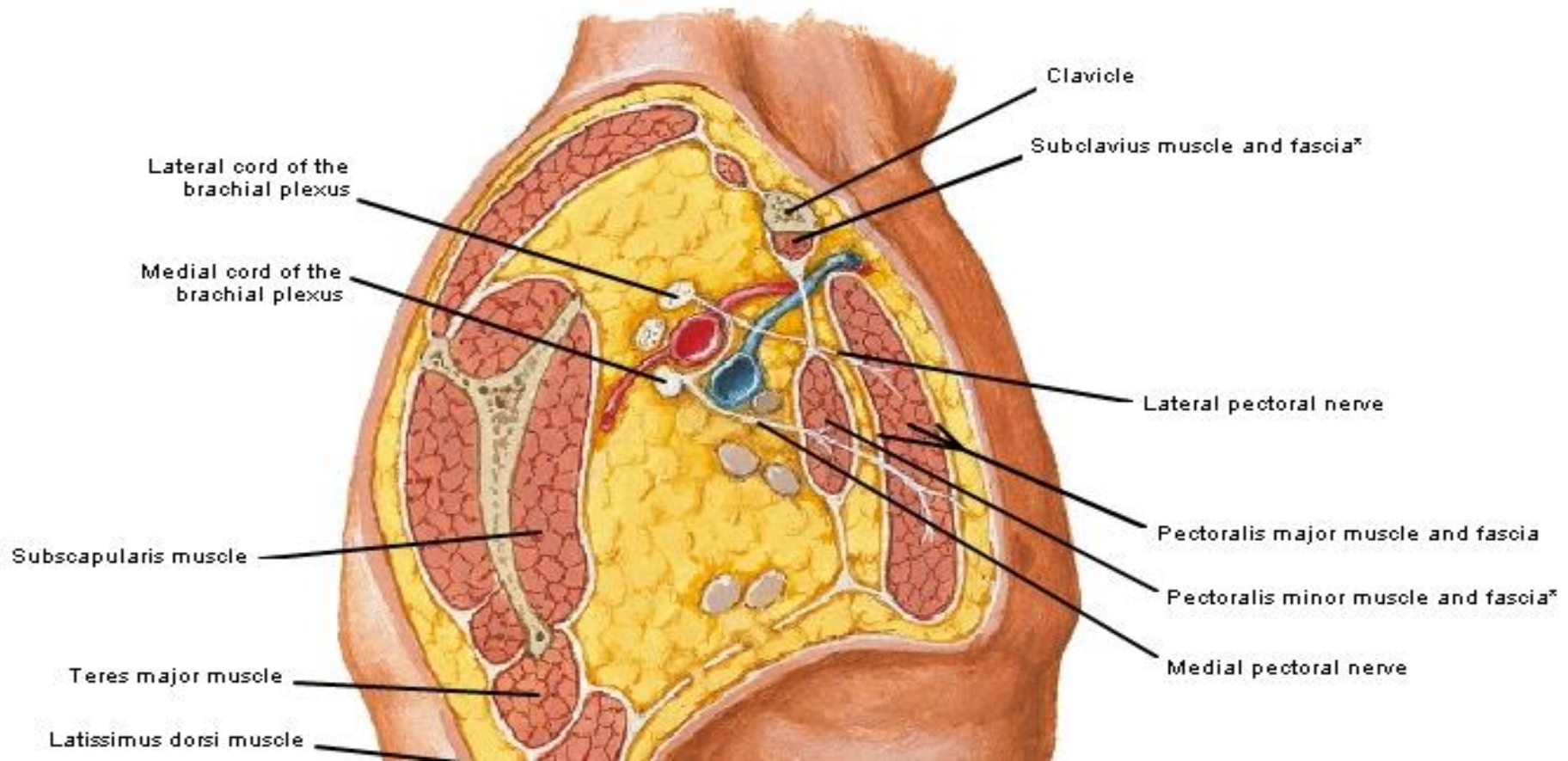
Boundaries of the Axilla

- Apex:
- Is directed upwards & medially to the root of the neck.
- It is called
 - **Cervicoaxillary canal.**
- It is bounded, by 3 bones:
 - Clavicle **anteriorly**.
 - Upper border of the scapula **posteriorly**.
 - Outer border of the first rib **medially**.



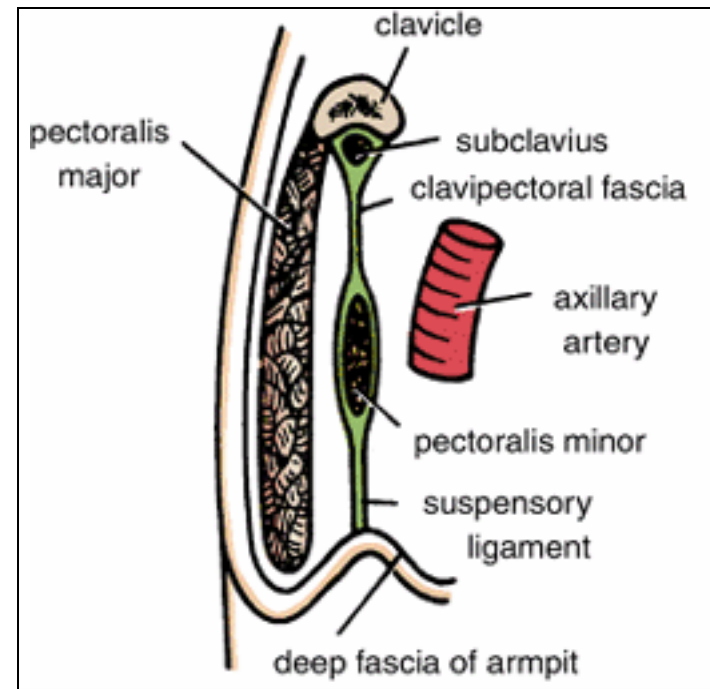
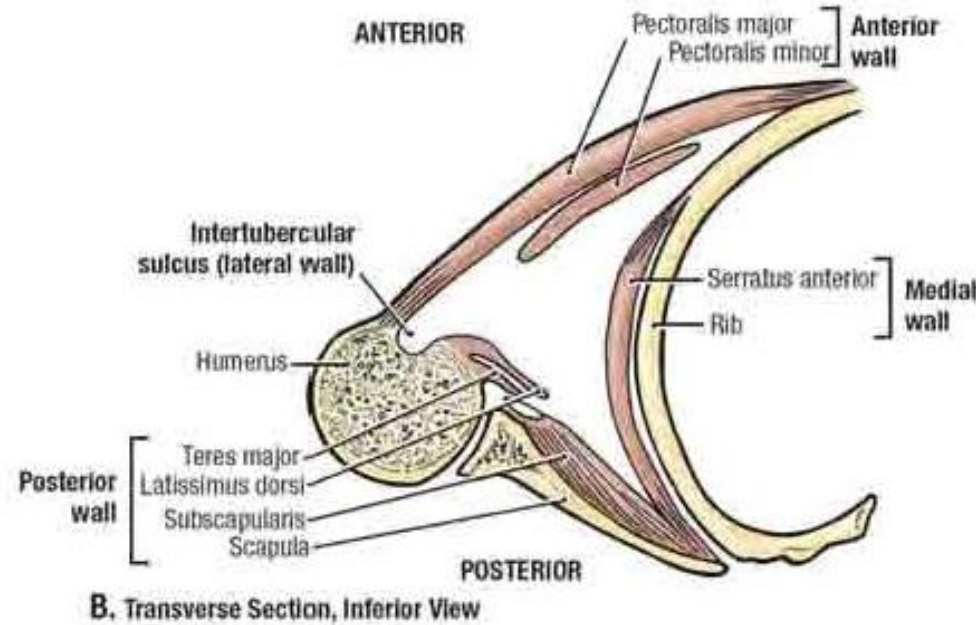
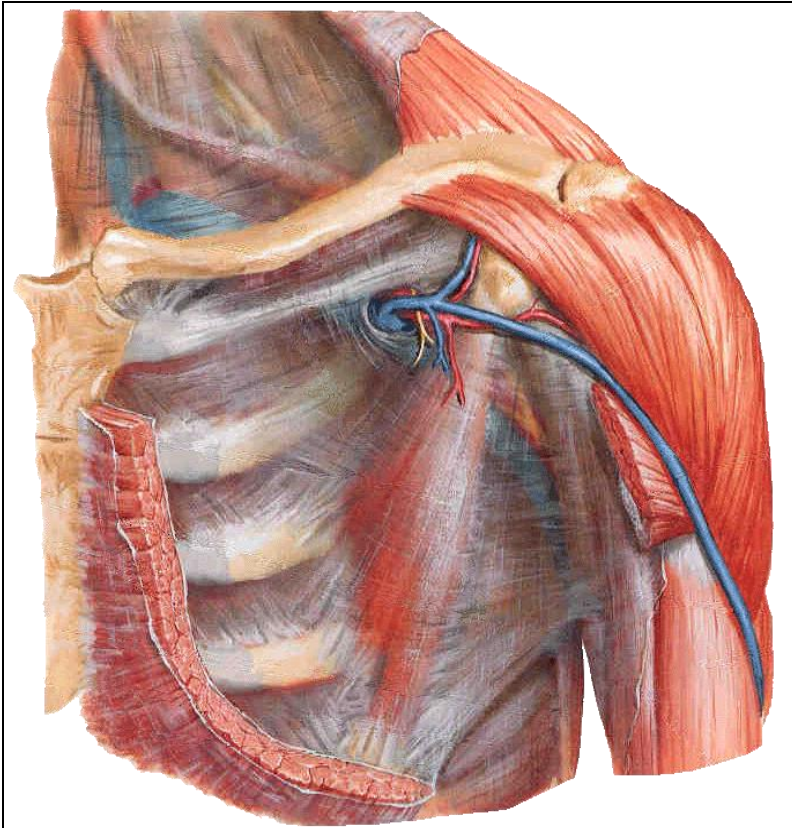
Base

- Axillary fascia and Skin of the arm pit

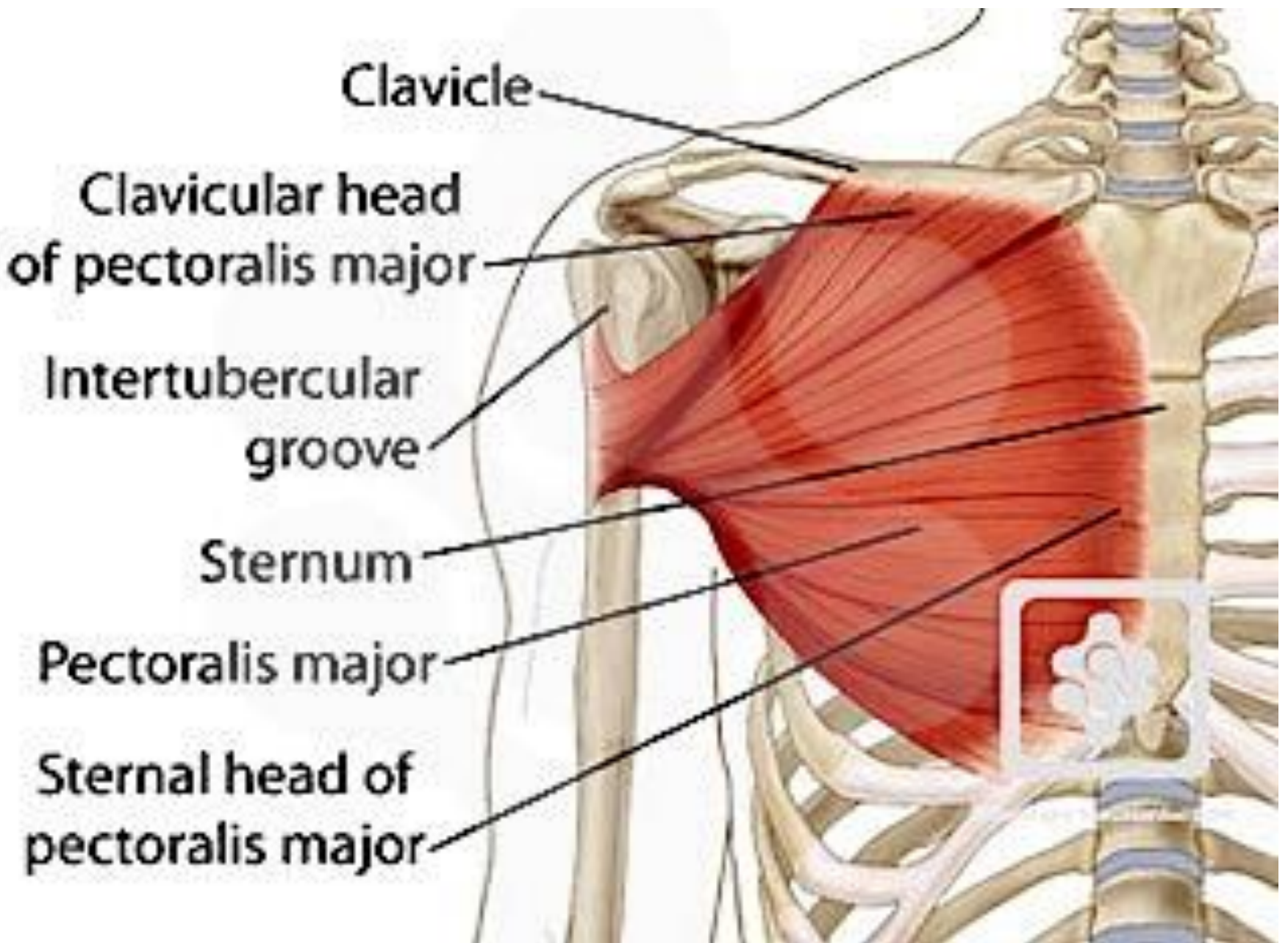


Anterior wall

1. Pectoralis major
2. Pectoralis minor
3. Subclavius muscles
4. Clavipectoral fascia

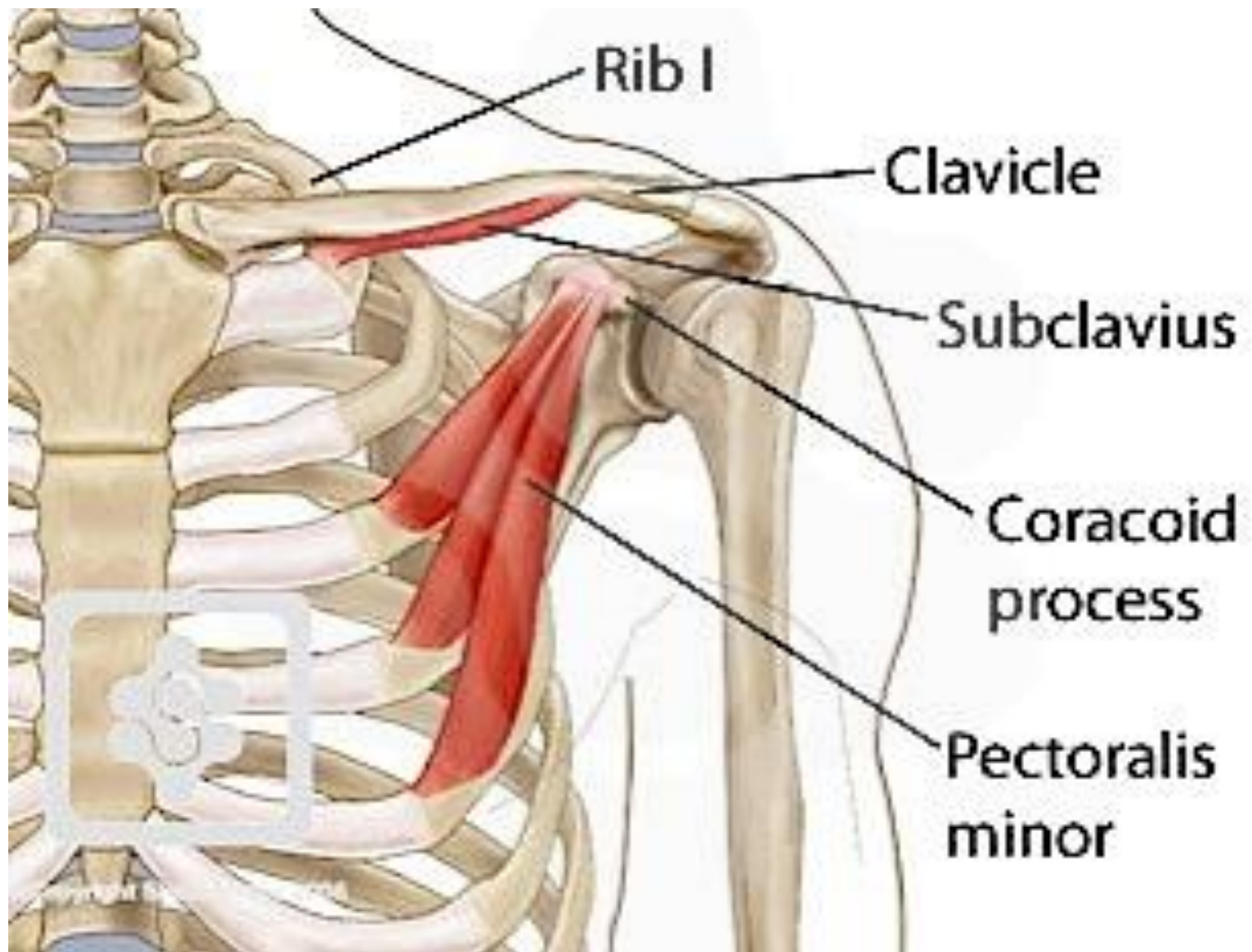


Pectoralis Major provides movement and support in — the front of the shoulder. The muscle has two heads; the clavicular head originates from the more midline half of the clavicle, and the sternocostal head originates from the ***manubrium and sternum*** (chest bone). This muscle inserts into the lateral lip of the intertubercular sulcus on the humerus. When the two heads of the pectoralis major act together, they flex, adduct and medially rotate the arm at the glenohumeral joint.

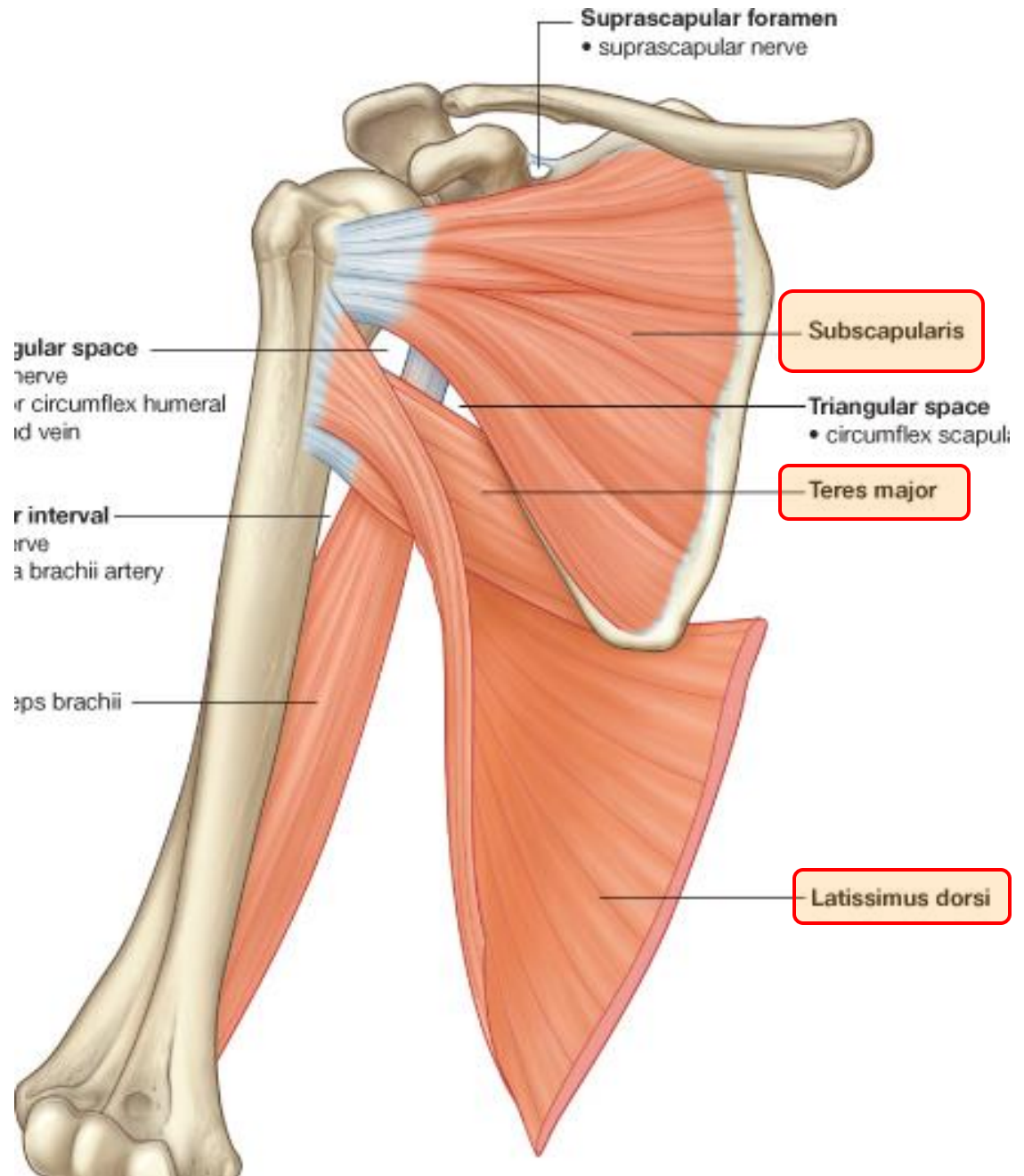


The ***pectoralis minor*** muscle is a small triangular — shaped muscle that lies deep to pectoralis major muscle and passes as three muscular slips from the thoracic wall (ribs III to V) to the coracoid process of the scapula. Pectoralis minor draws the scapula forward and downward, and raises the ribs in forced inspiration.

The ***subclavius*** muscle is a small muscle that •
lies deep to pectoralis major muscle. It passes
from rib I at the junction between the rib and
its costal cartilage to a groove on
the inferior (lower) surface of the clavicle. It
depresses the clavicle, draws the shoulder
forward and downward, and steadies the
clavicle during movements of the shoulder



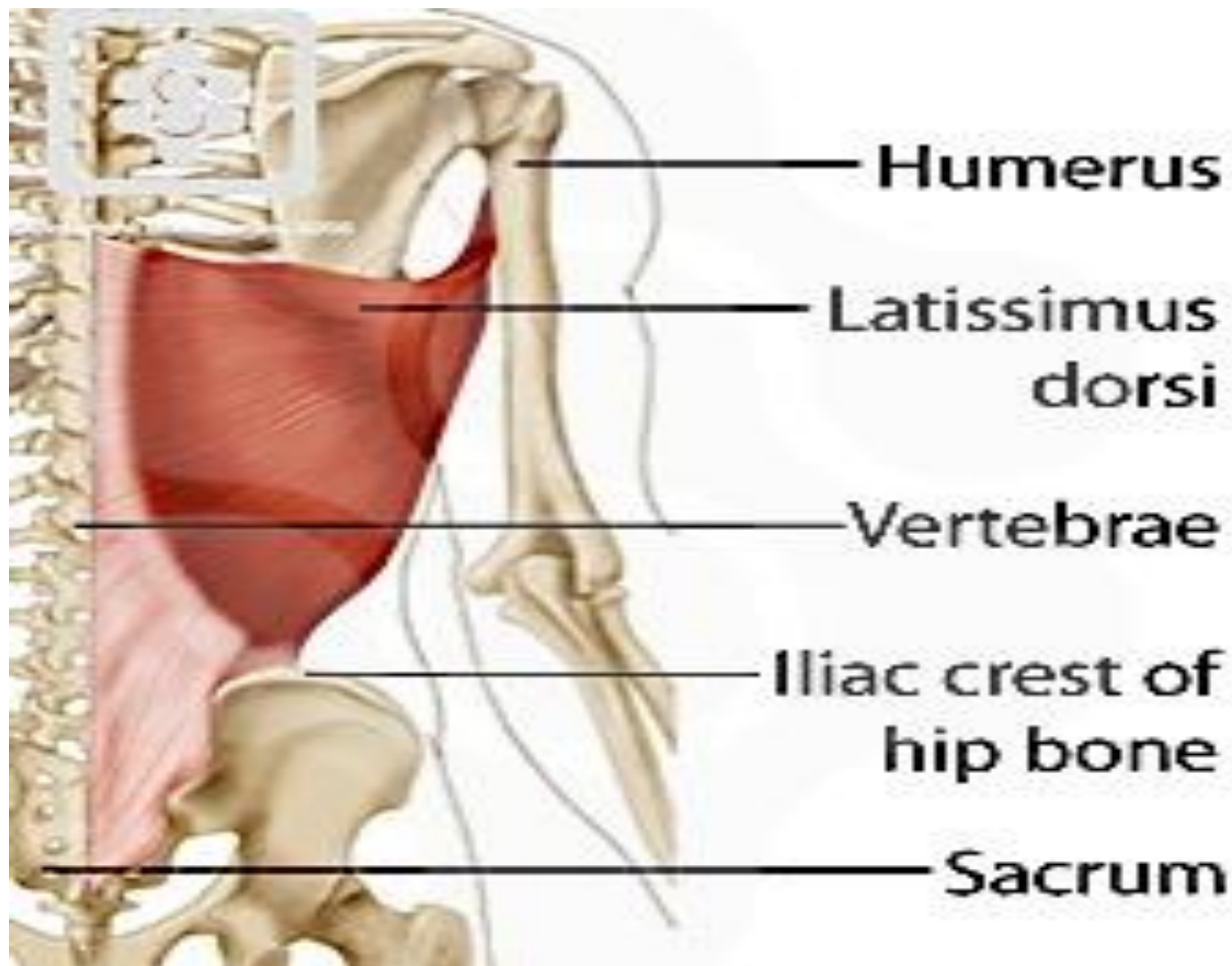
- **Posterior wall:**
- Is formed by:
 - **Subscapularis.**
 - **Latissimus dorsi.**
 - **Teres major muscles.**

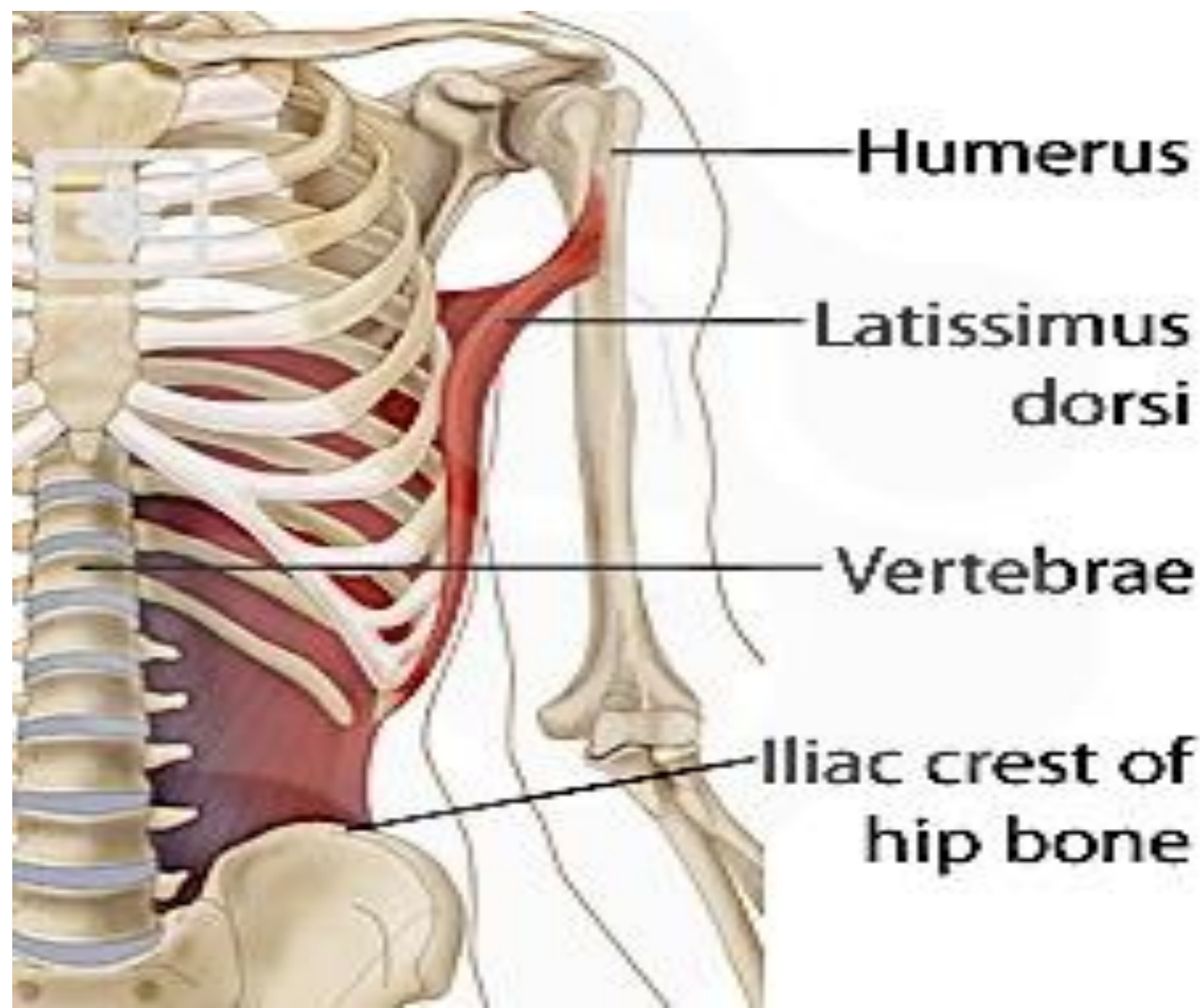


Subscapularis forms the largest component of •
the posterior wall of the axilla (area on the
body directly under the joint where the arm
connects to the shoulder). It originates from
and fills the subcapular fossa on
the anterior surface of the scapula and inserts
on the lesser tuberosity of the humerus, and
part of the capsule of the shoulder joint. This
muscle medially rotates the arm, and
stabilizes the glenohumeral joint.

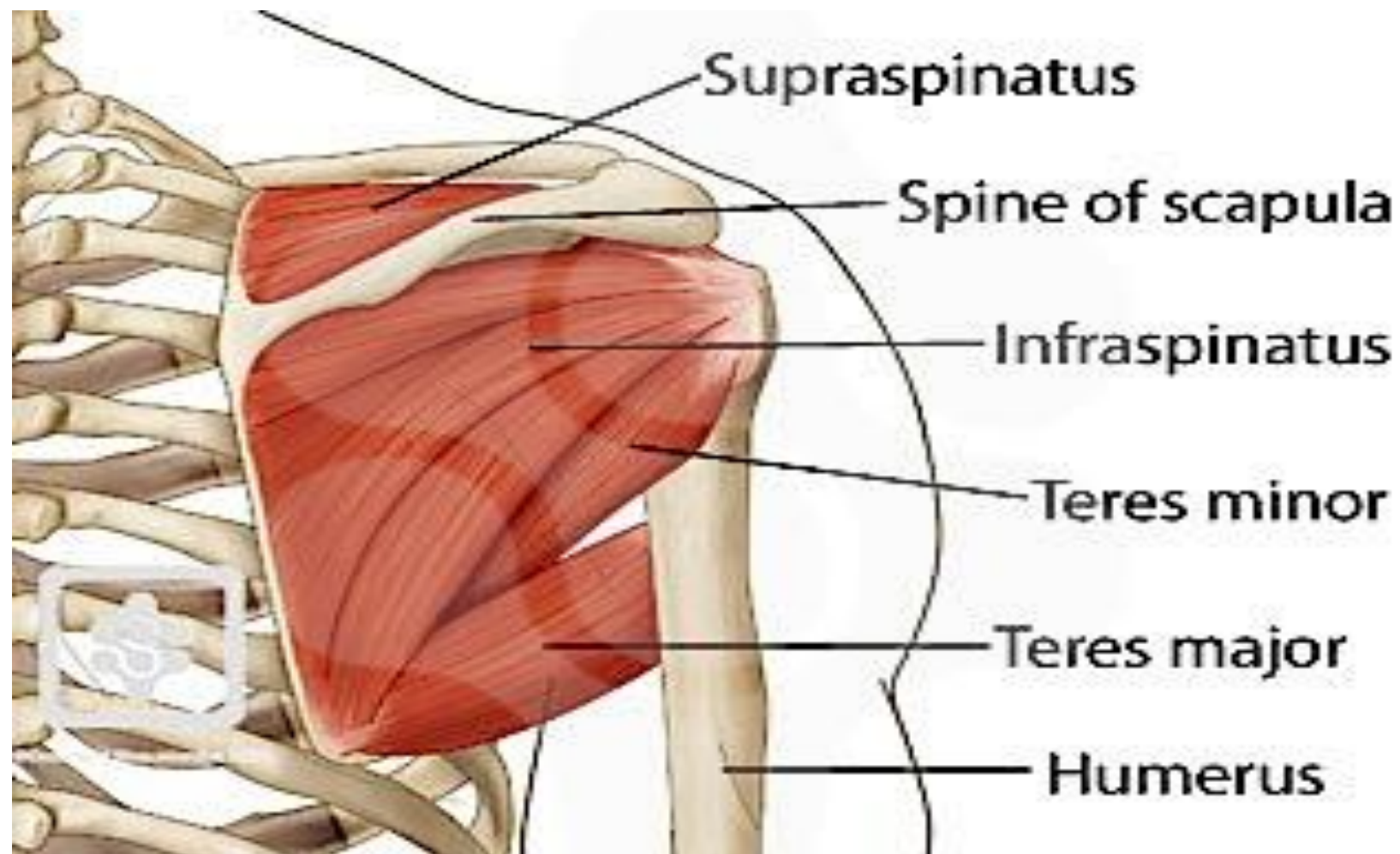
Latissimus dorsi muscle originates from the •
spinous process of the lower six thoracic
vertebrae, lumbar vertebrae, sacral vertebrae,
the iliac crest of the hip bone and the lower
three or four ribs. It finally inserts on to the
bottom of the intertubercular groove.

Latissimus dorsi extends, adducts
and medially rotates the arm. It also draws the
shoulder downward and backward and keeps
the inferior angle of the scapula against the
chest wall.

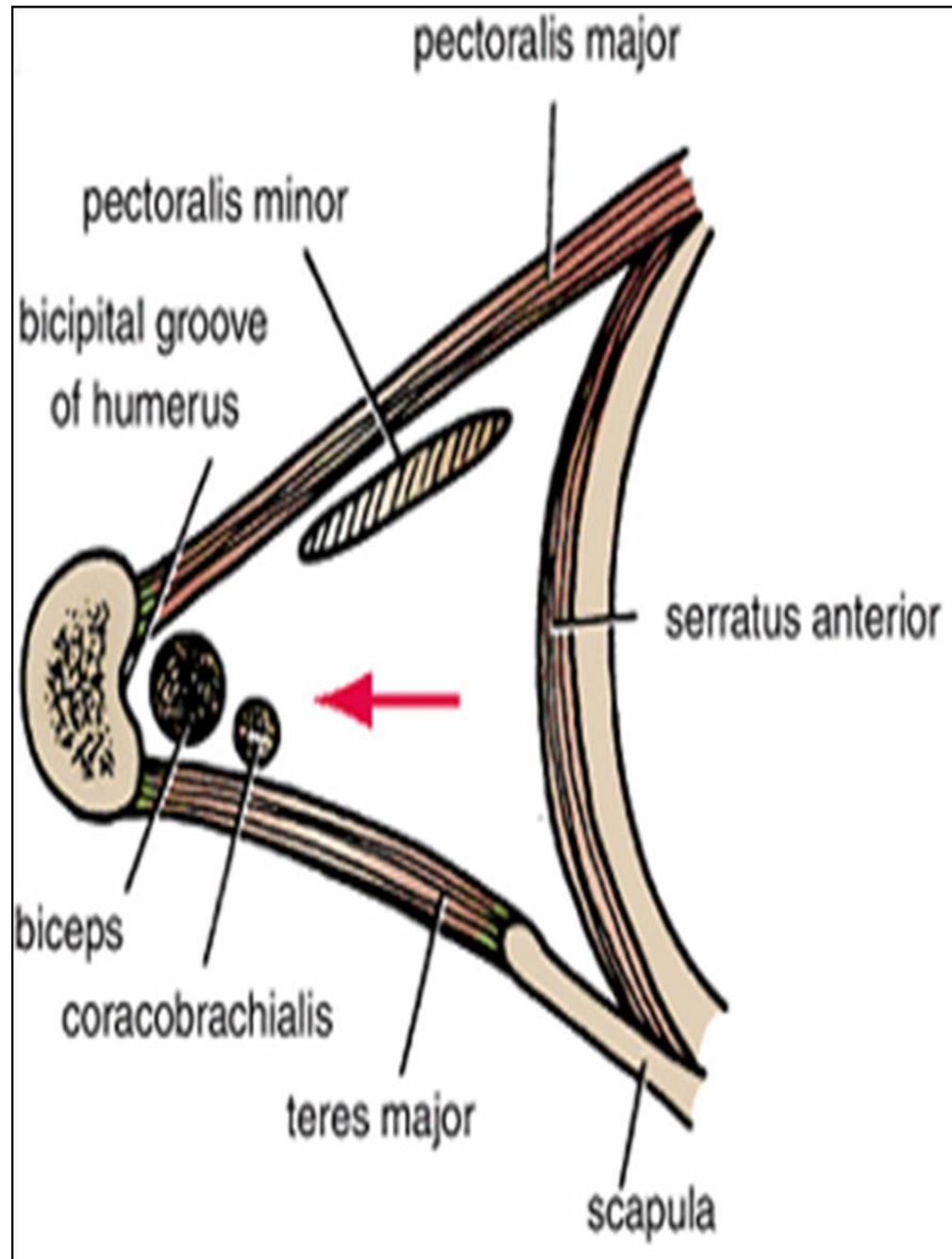




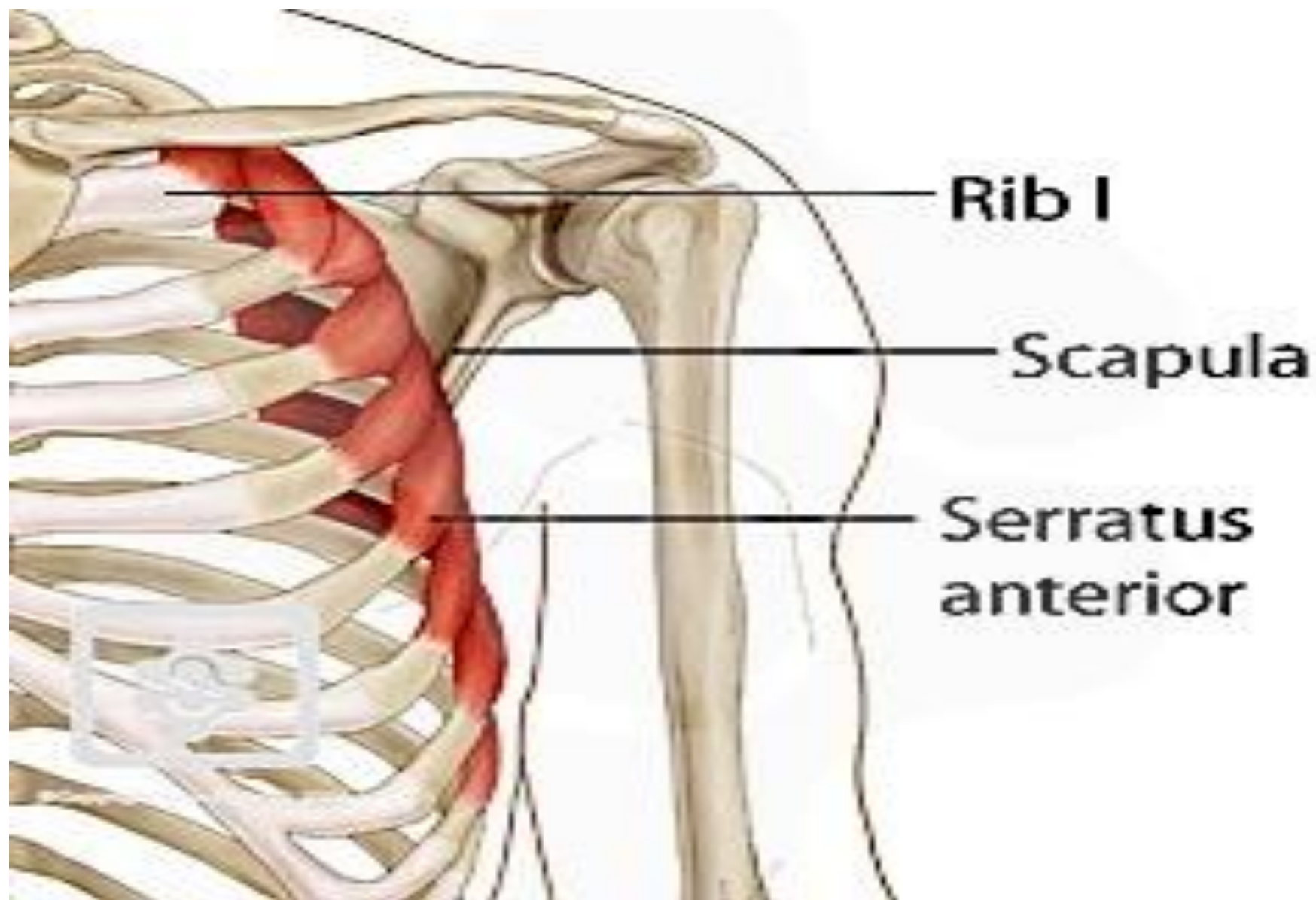
Teres major muscle originates •
from posterior surface of the inferior angle of
the scapula and attaches the medial lip of the
intertubercular sulcus which lies on
the anterior surface of the humerus. This
muscle extends and medially rotates
the humerus.

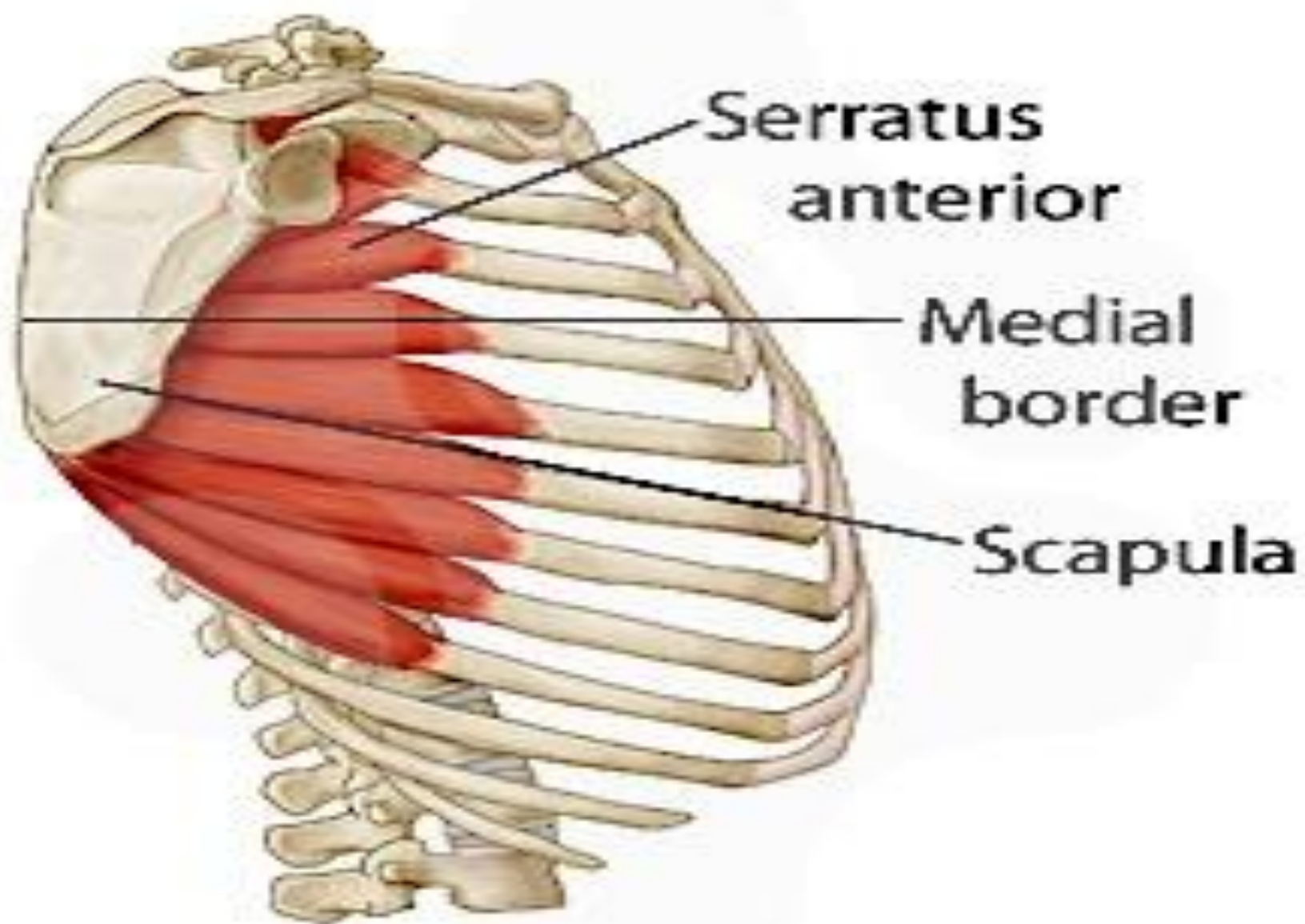


- The medial wall:
- It is wide and formed by:
 - **Serratus anterior.**
 - **Upper 4-5 ribs & Intercostal muscles .**

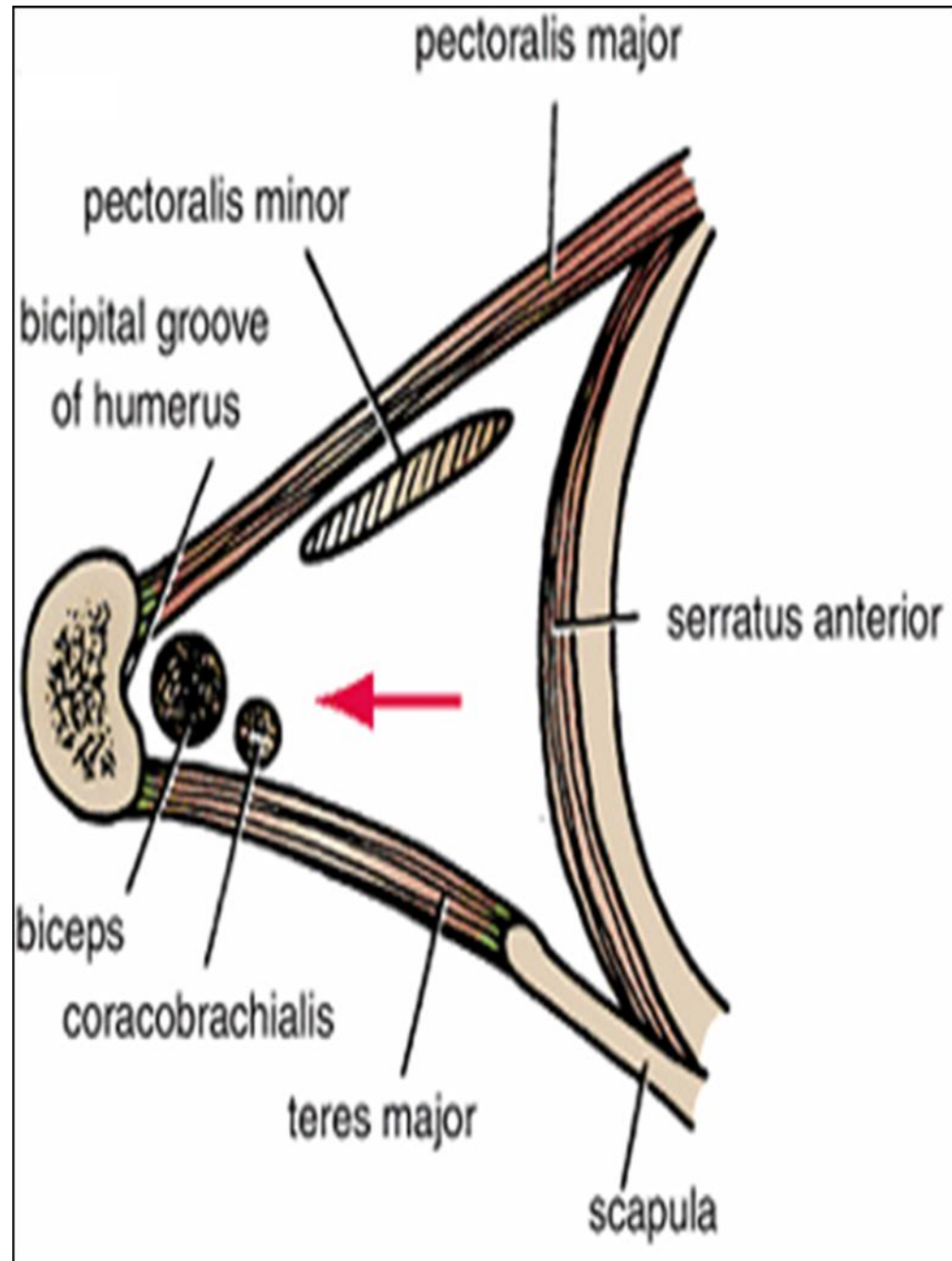


Serratus anterior muscle originates as a number — of muscular slips from the outer surfaces and superior borders of the first eight or nine ribs, and fascia covering the first intercostal spaces (spaces between each rib). They then form a flattened sheet which passes around the thoracic wall and attaches to the anterior (costal surface, that glides over the ribs) of the medial border of the scapula. The serratusanterior pulls the scapula forward of the the thoracic wall and rotates the scapula for abduction and flexion of the arm.



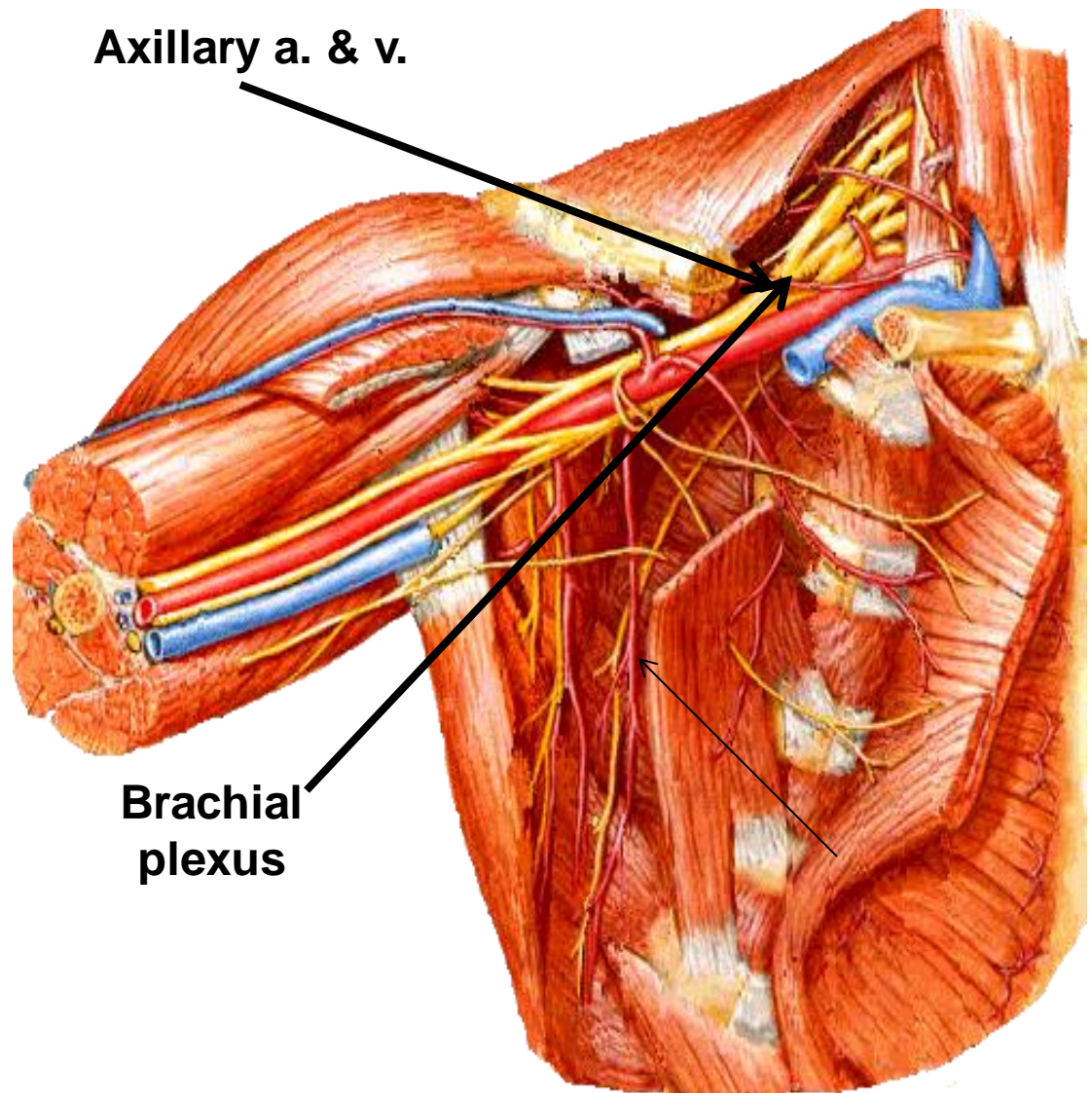


- The lateral wall:
- It is narrow and formed by:
 - **Coracobrachialis.**
 - **Biceps brachii.**
 - **Bicipital groove of the humerus.**



Contents of The Axilla

- Cords and branches of the brachial plexus
- Axillary artery and its branches.
- Axillary vein and its tributaries.
- Axillary lymph nodes.
- Axillary lymphatic vessels
- Axillary fat.
- Loose connective tissue.



The neurovascular bundle is enclosed in connective tissue sheath, called '**axillary sheath**'

