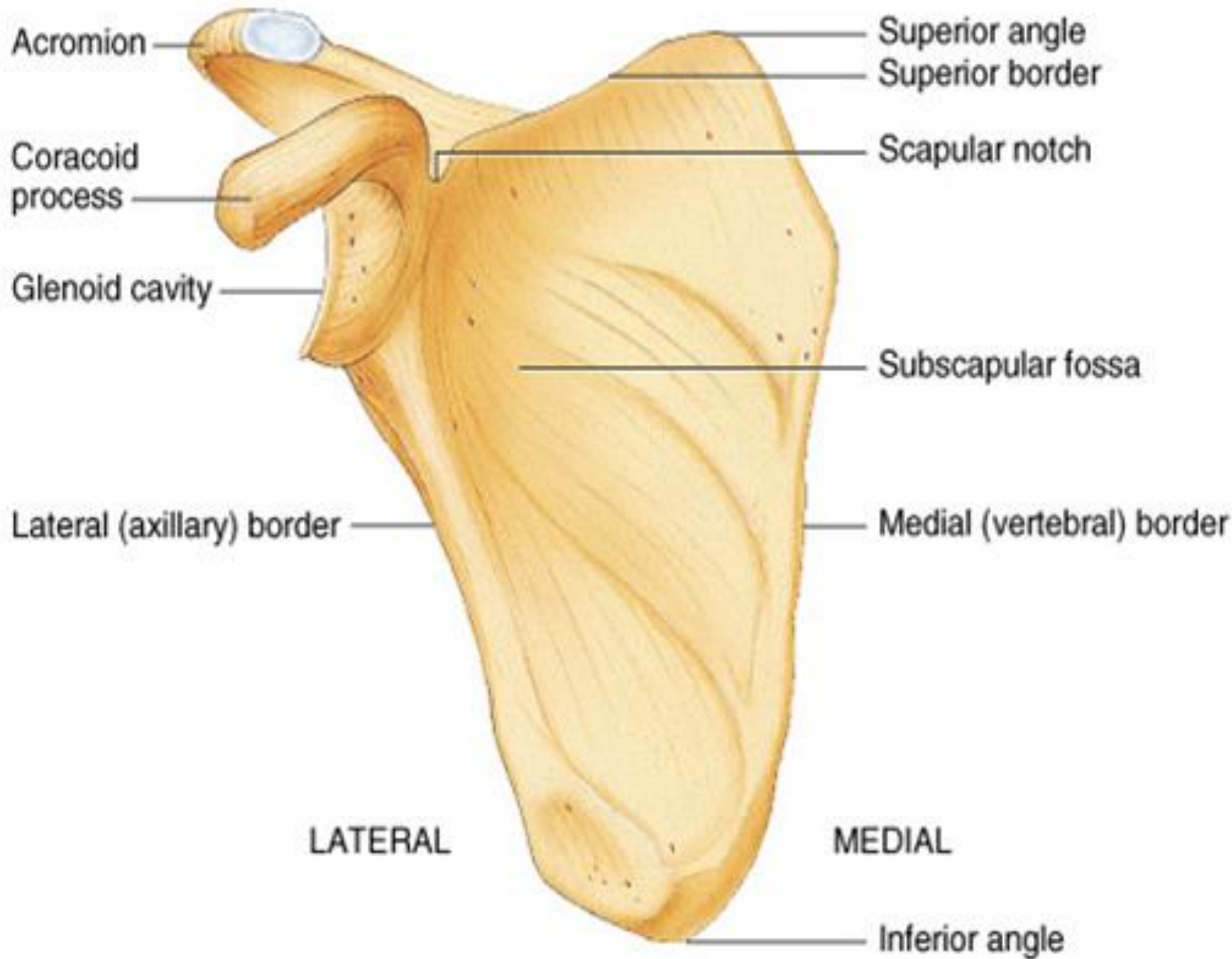
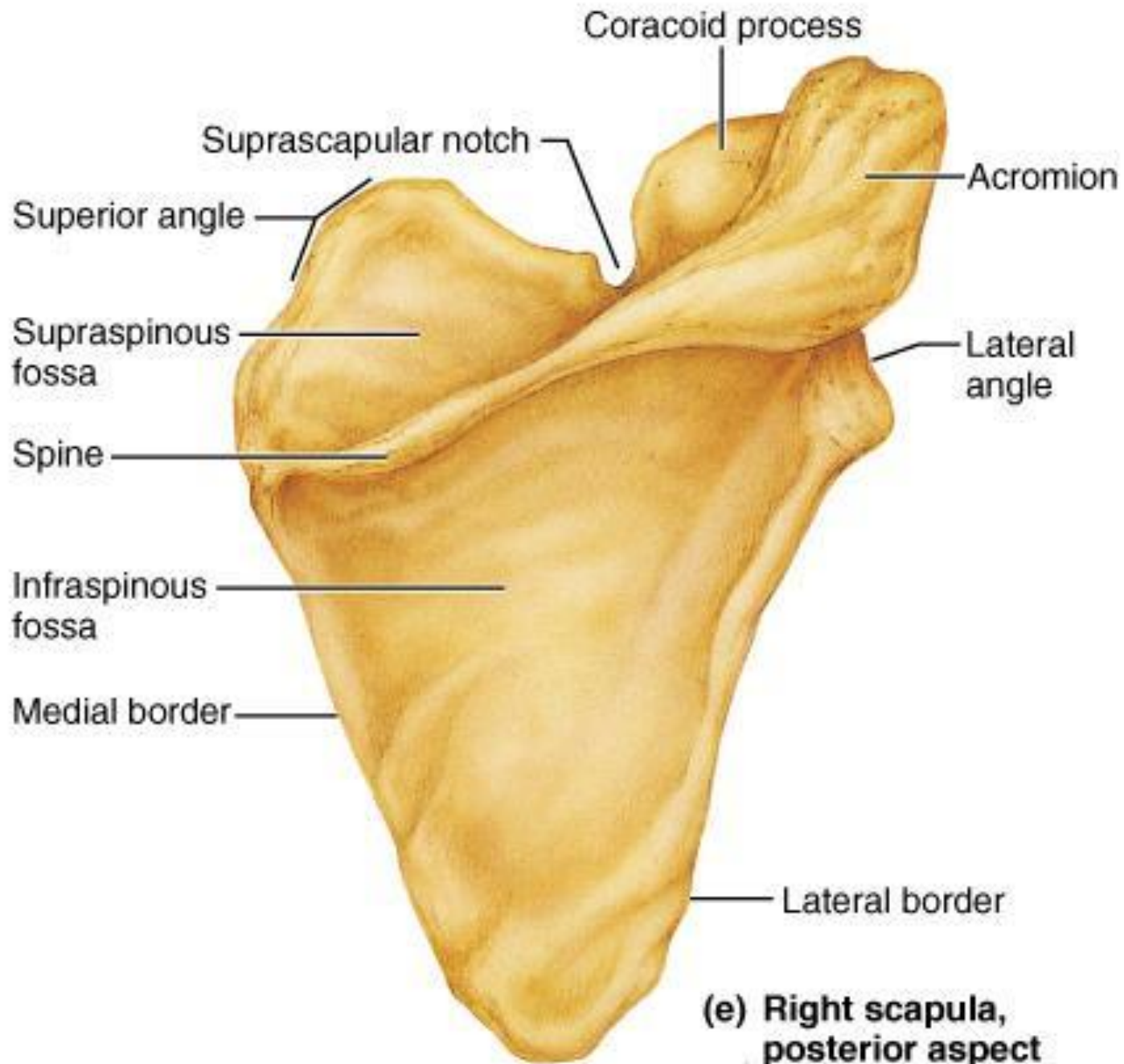


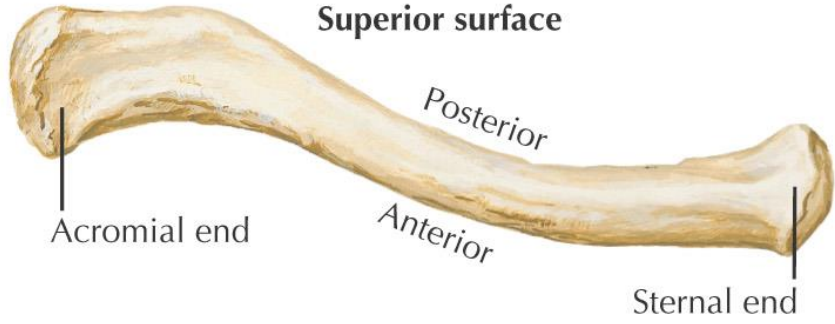
# Upper limb scapular region

By Dr Qaisar Afridi

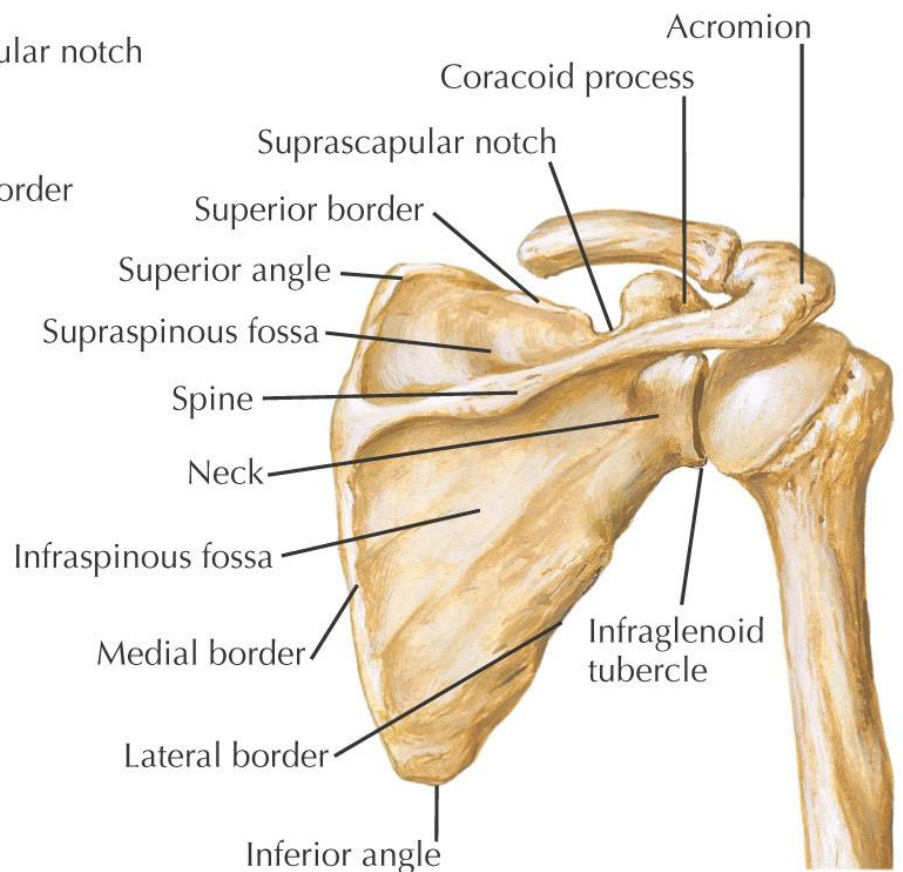
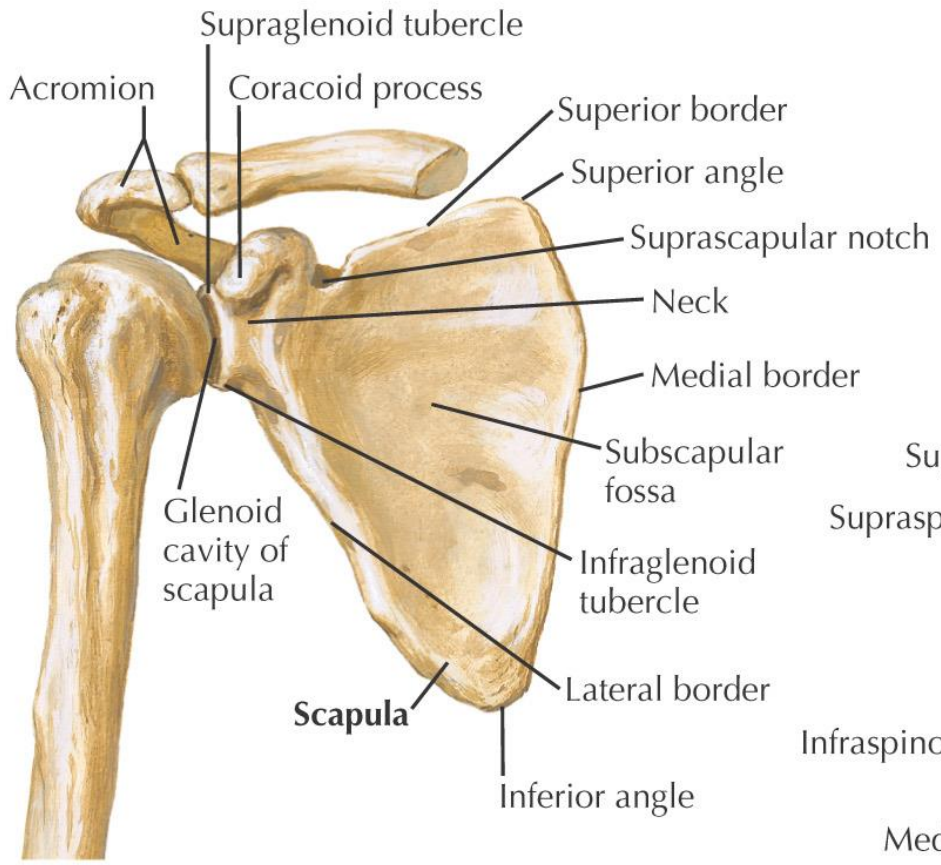
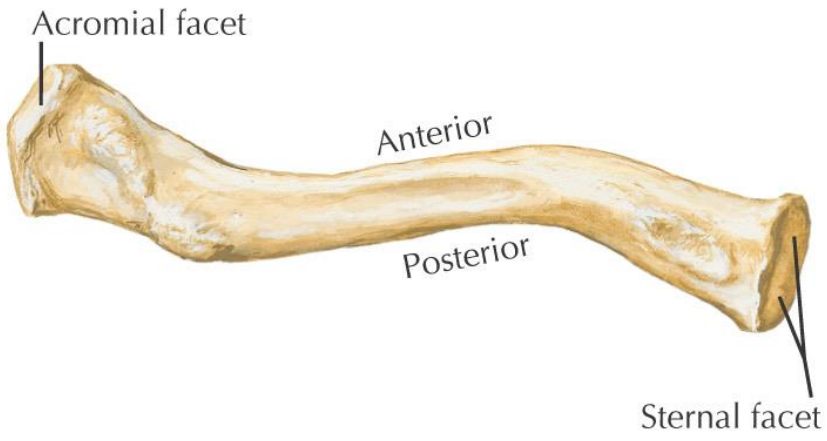




**Superior surface**



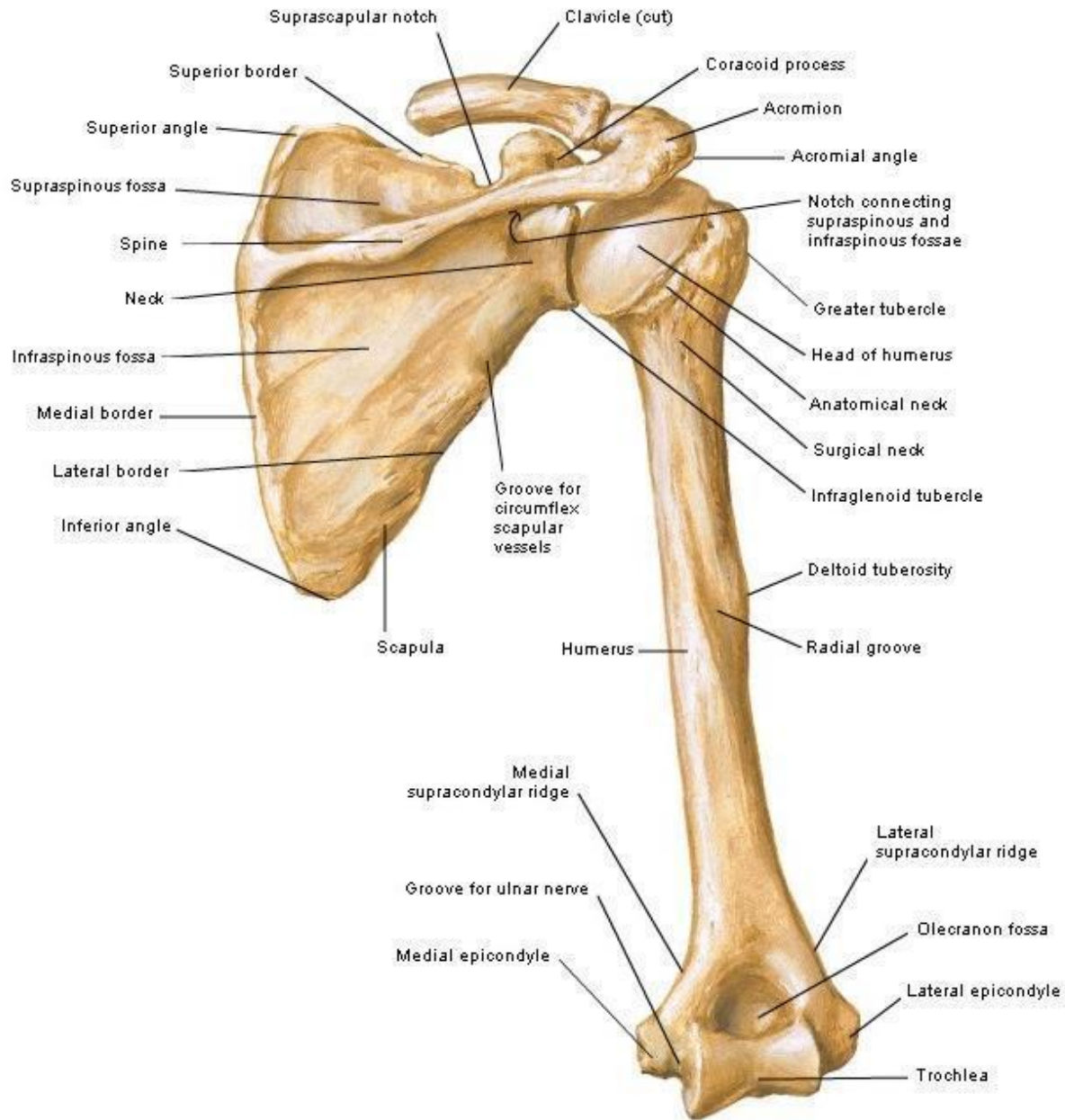
**Inferior surface**



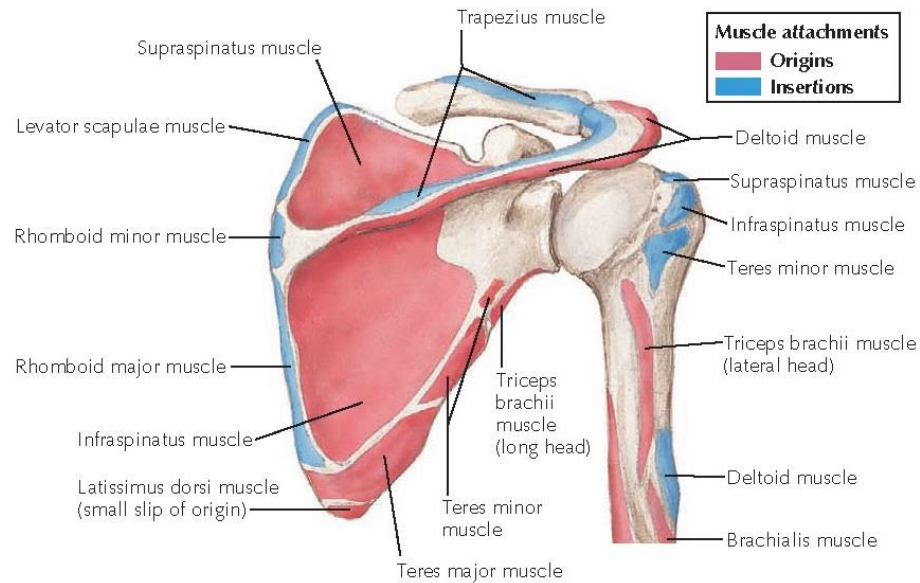
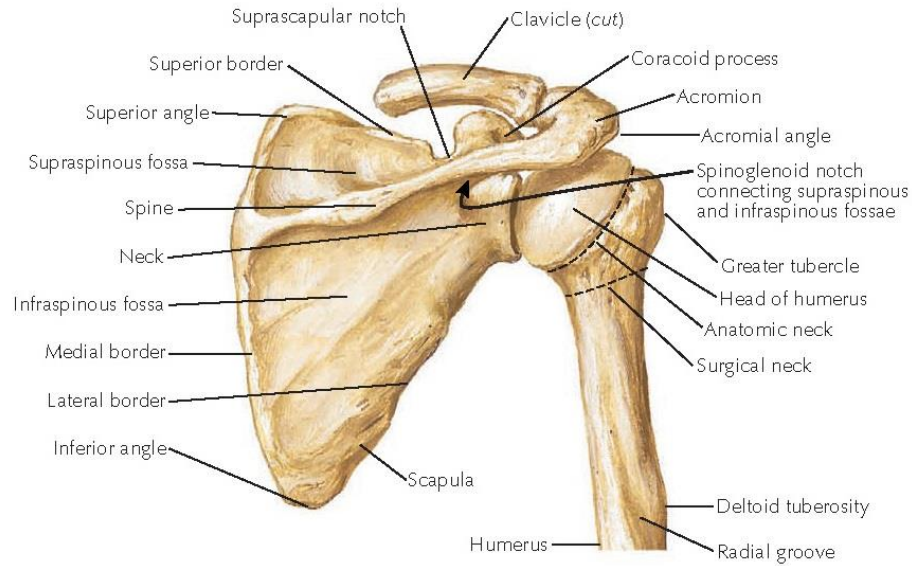
*F. Netter  
M.D.*

# Humerus and Scapula

## Posterior View: Features

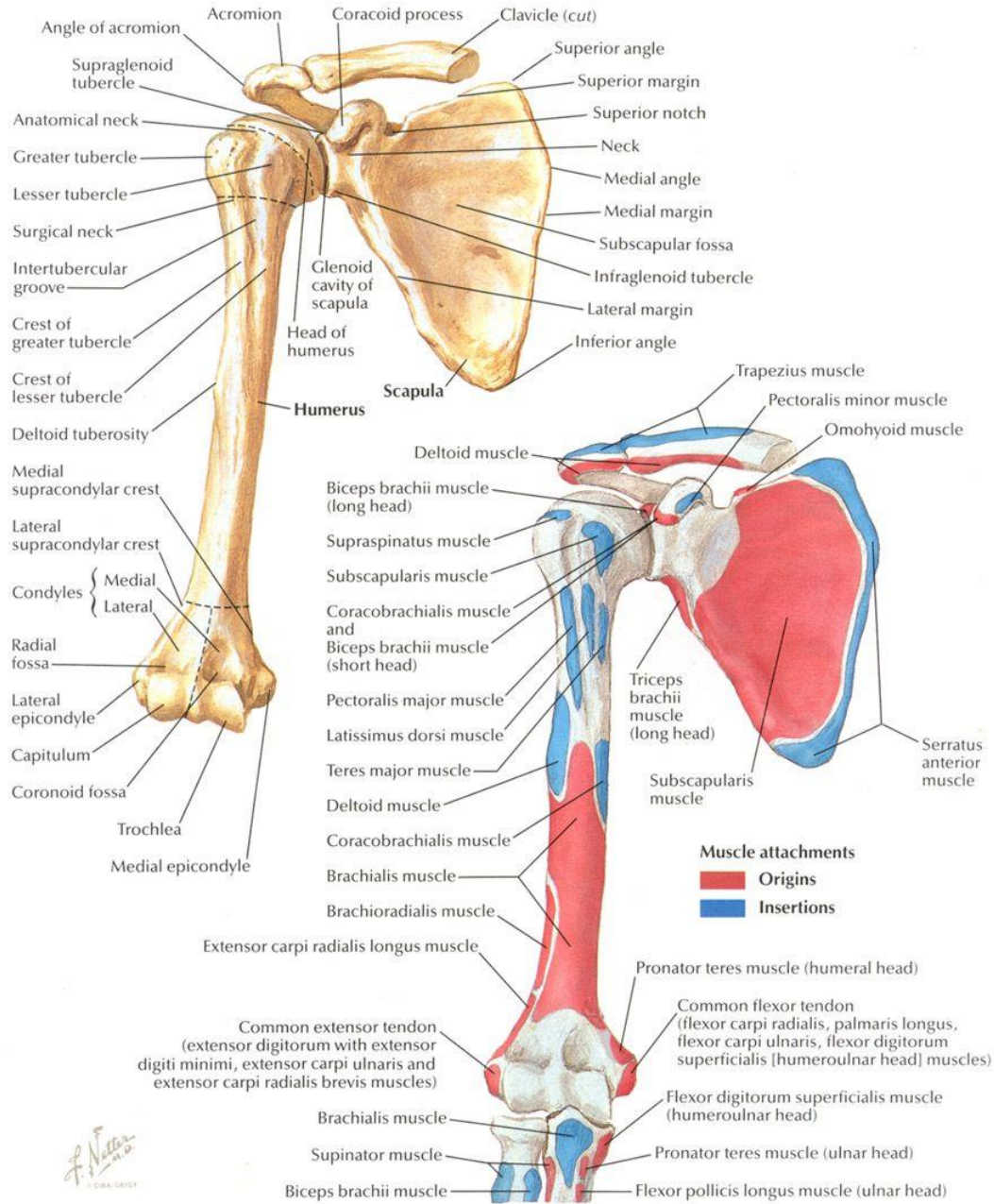


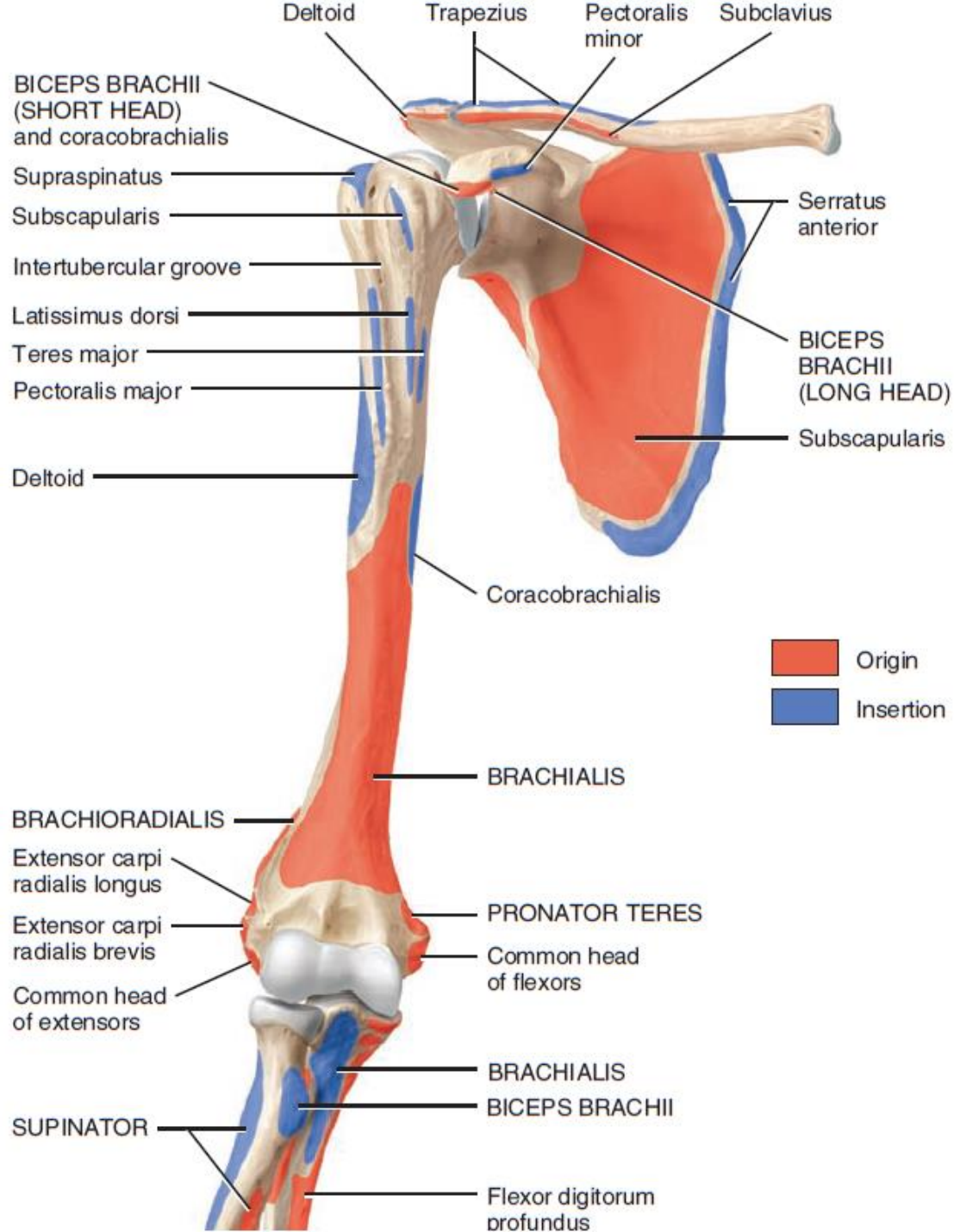
SCAPULA AND HUMERUS: POSTERIOR VIEW



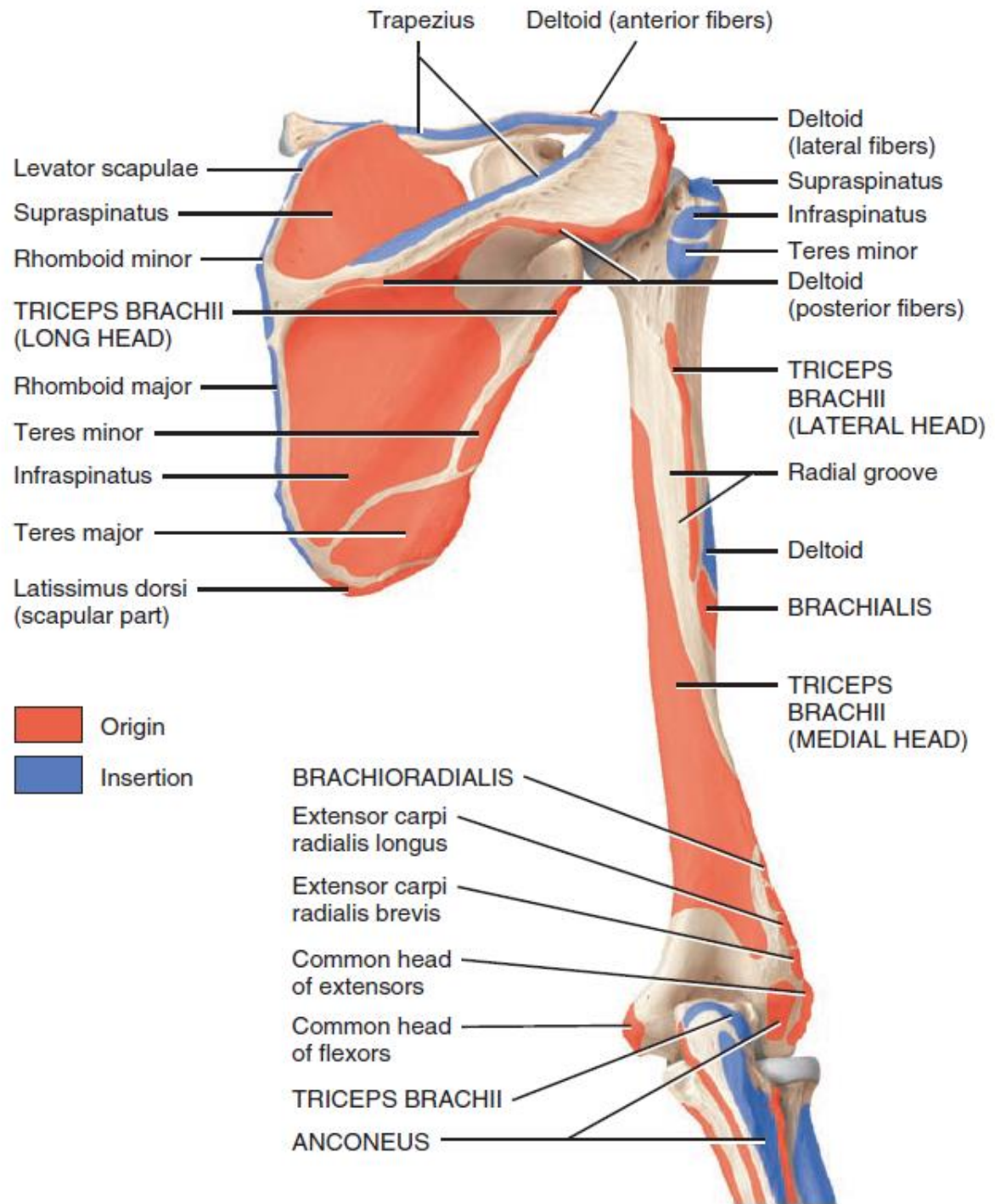
# Humerus and Scapula: Anterior Views

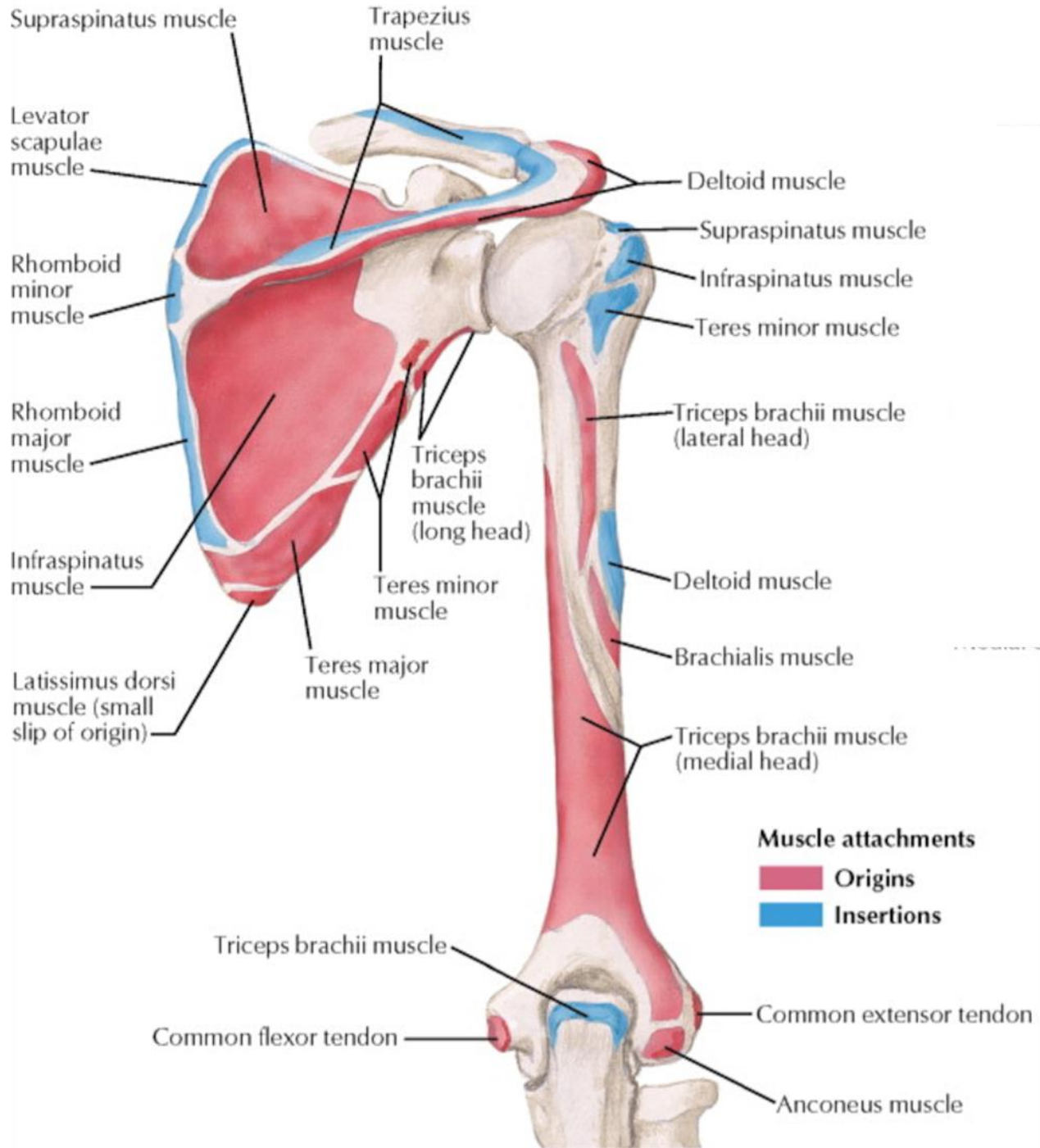
SEE ALSO PLATE 170

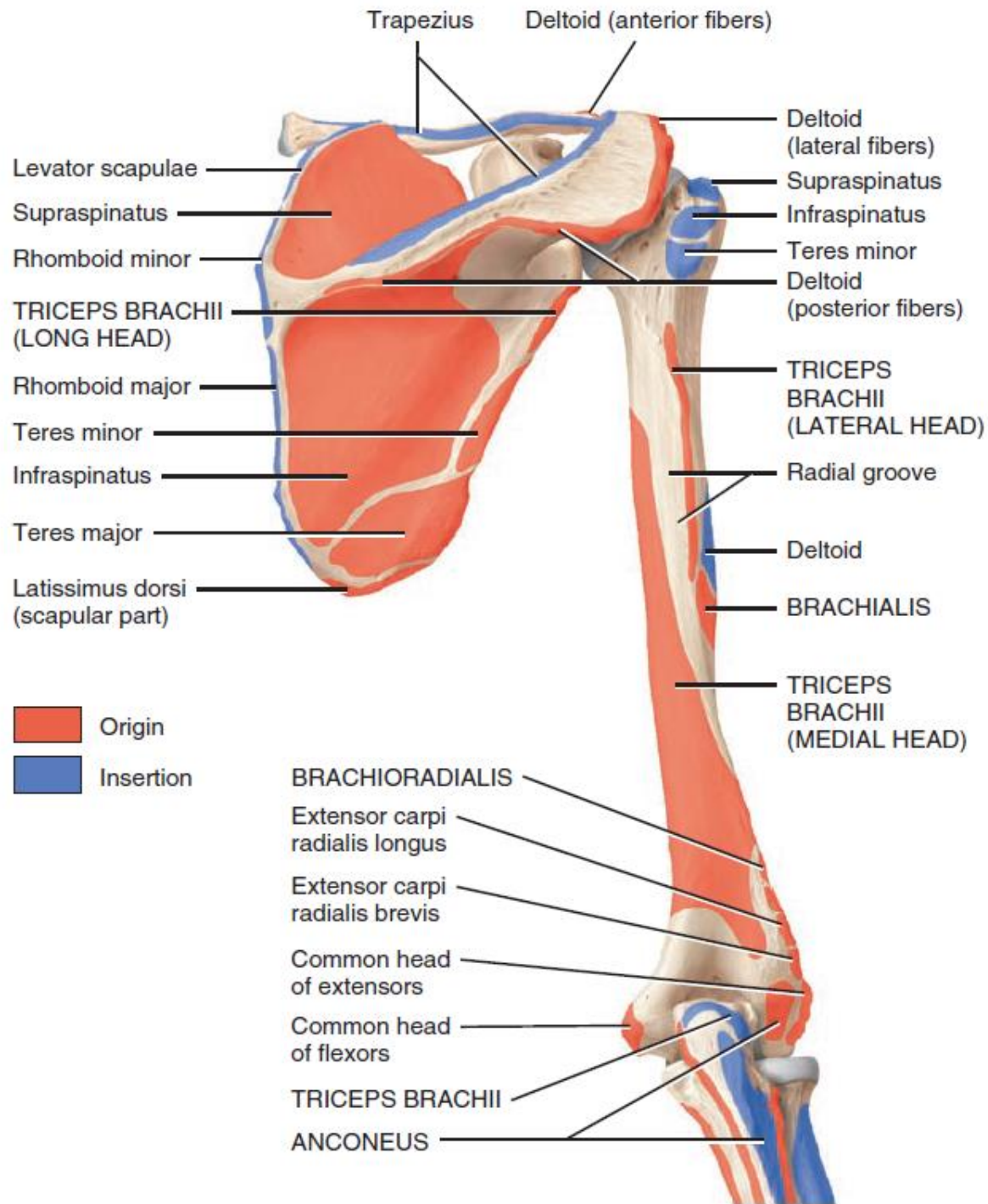




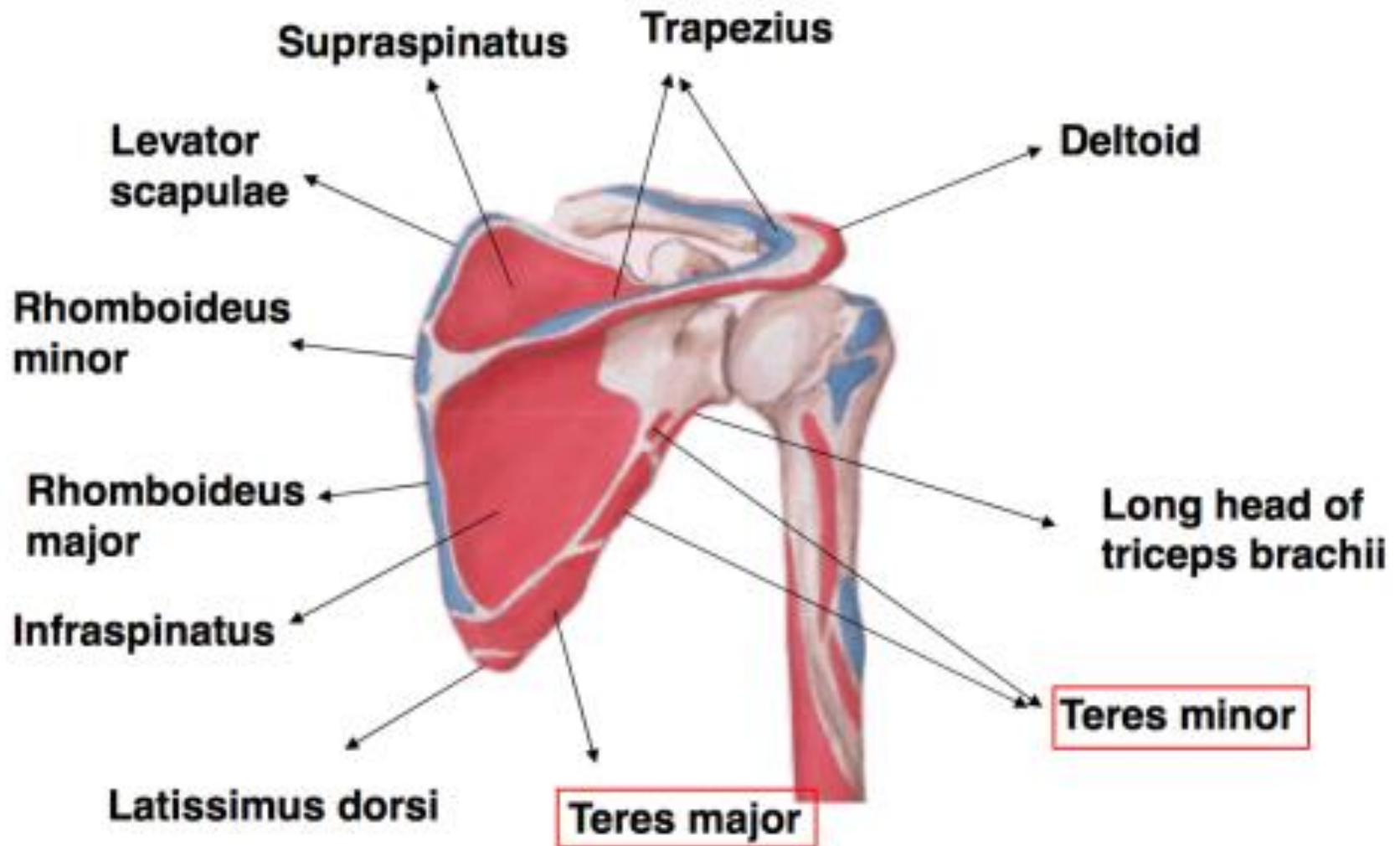


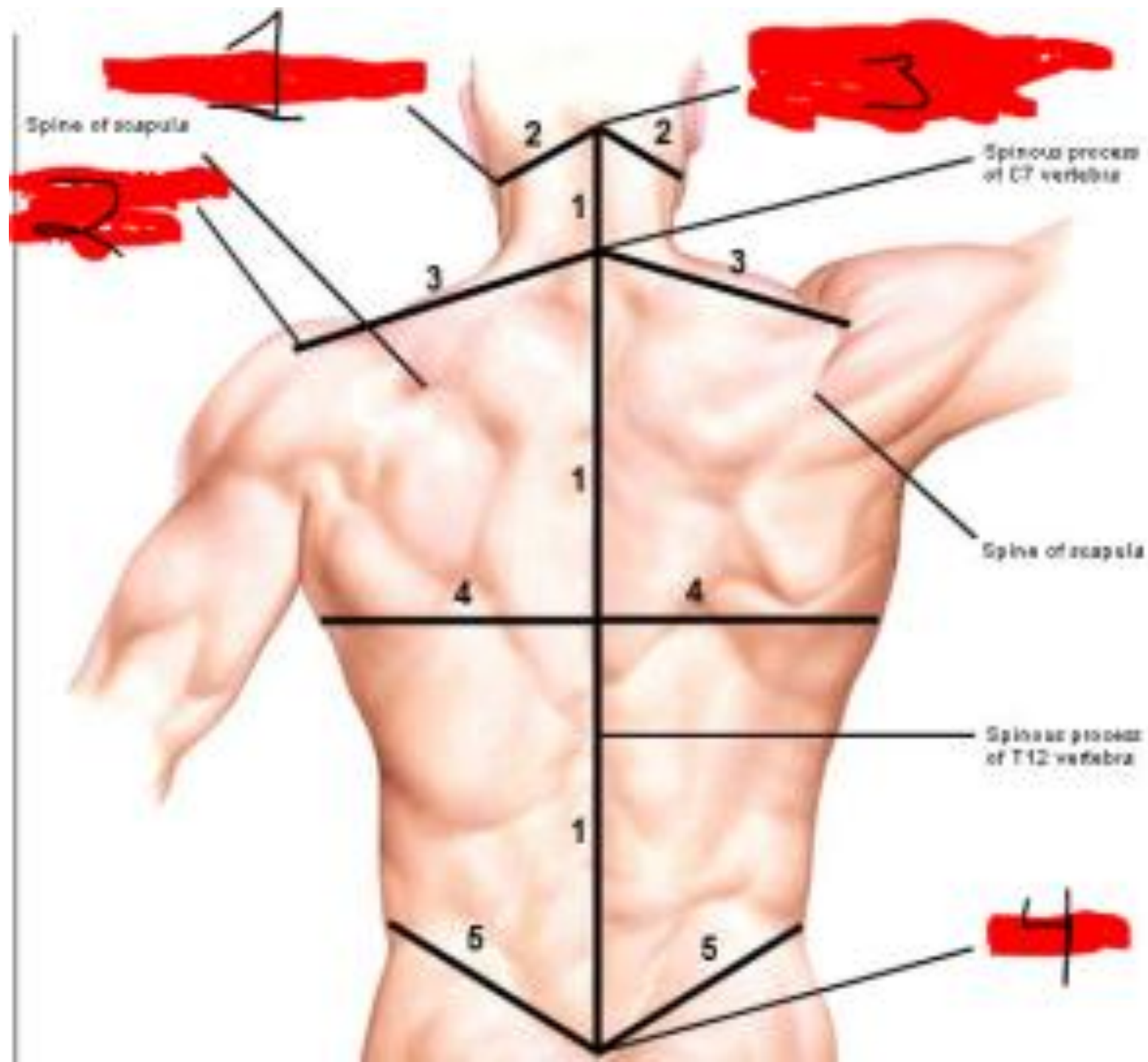


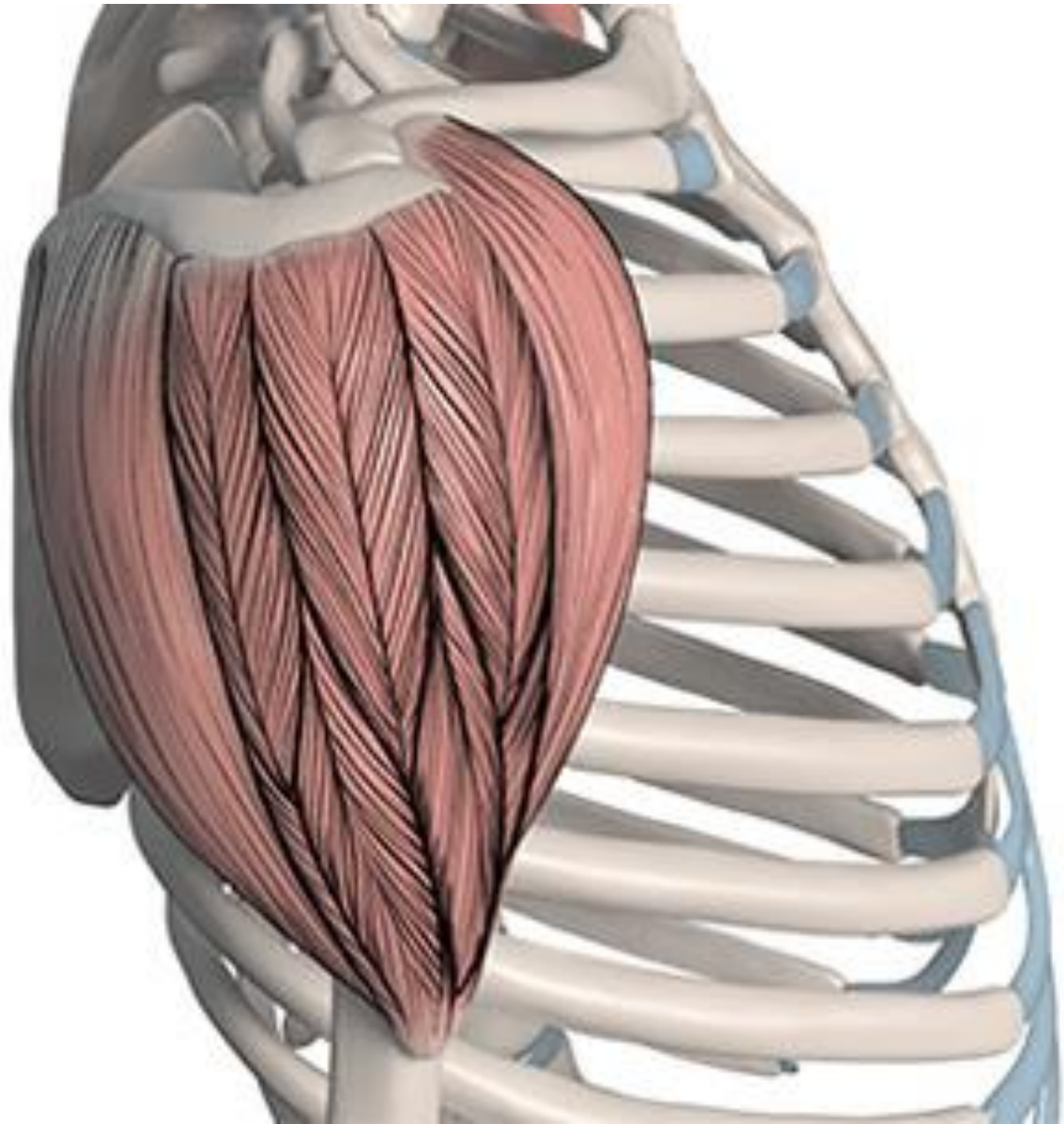


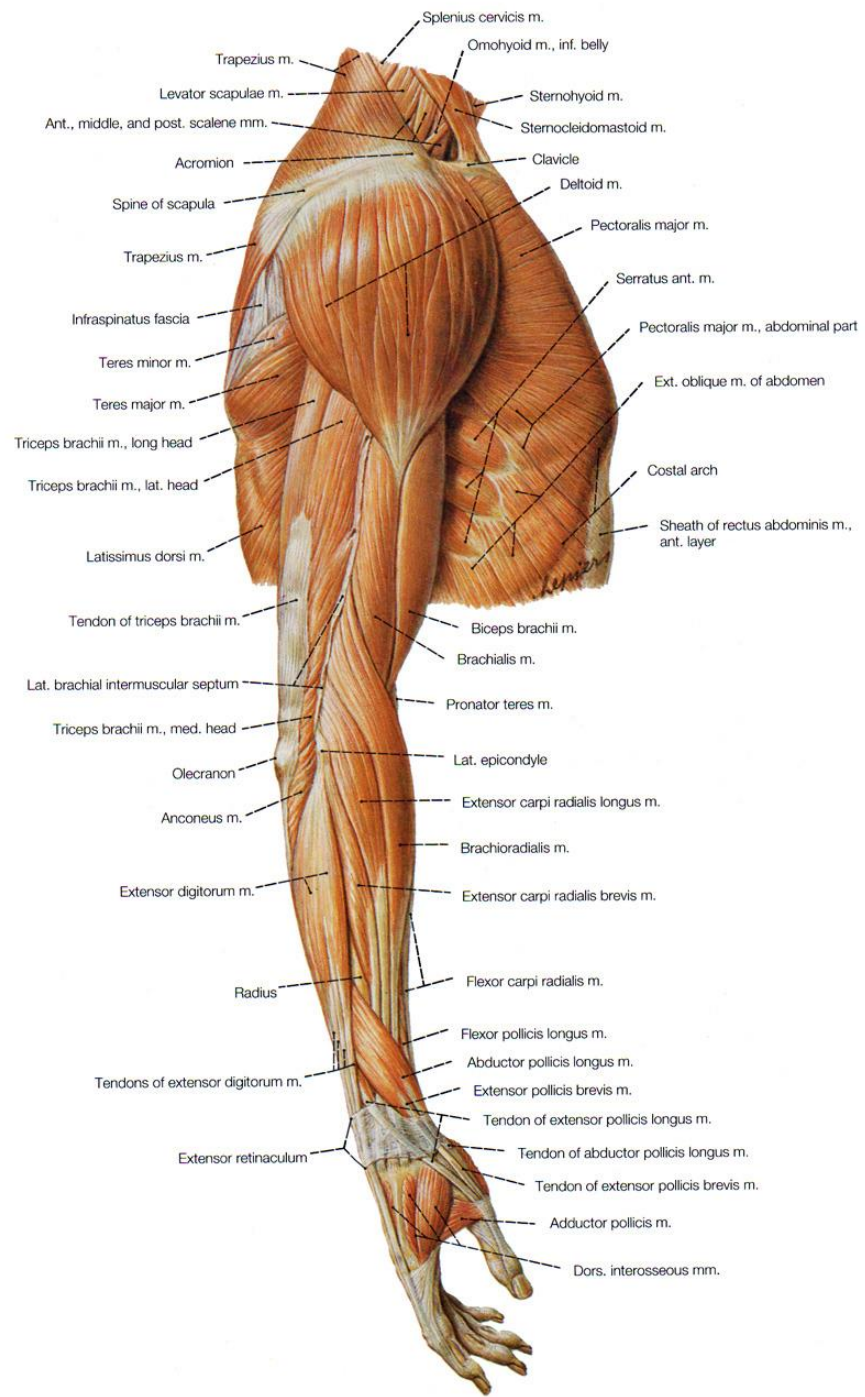


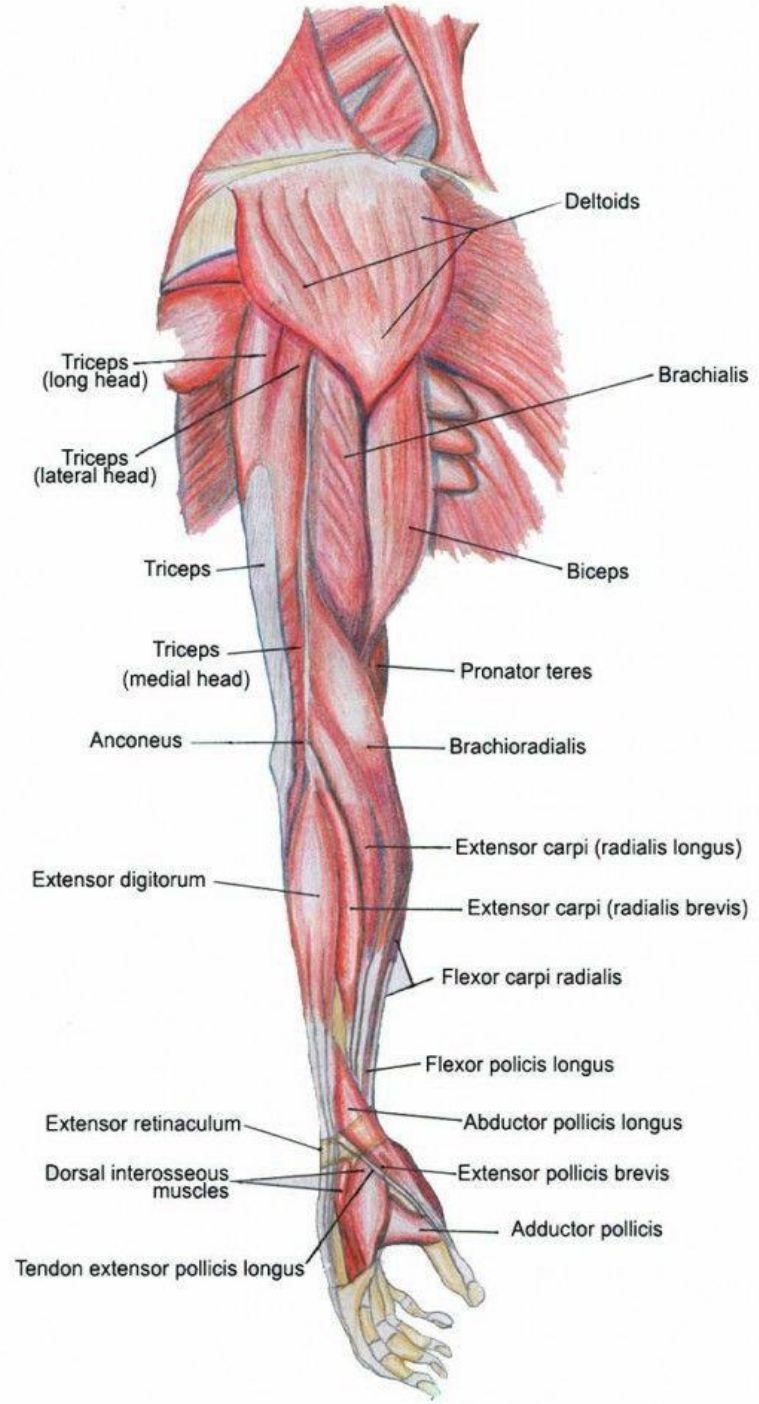
# Posterior view of scapula





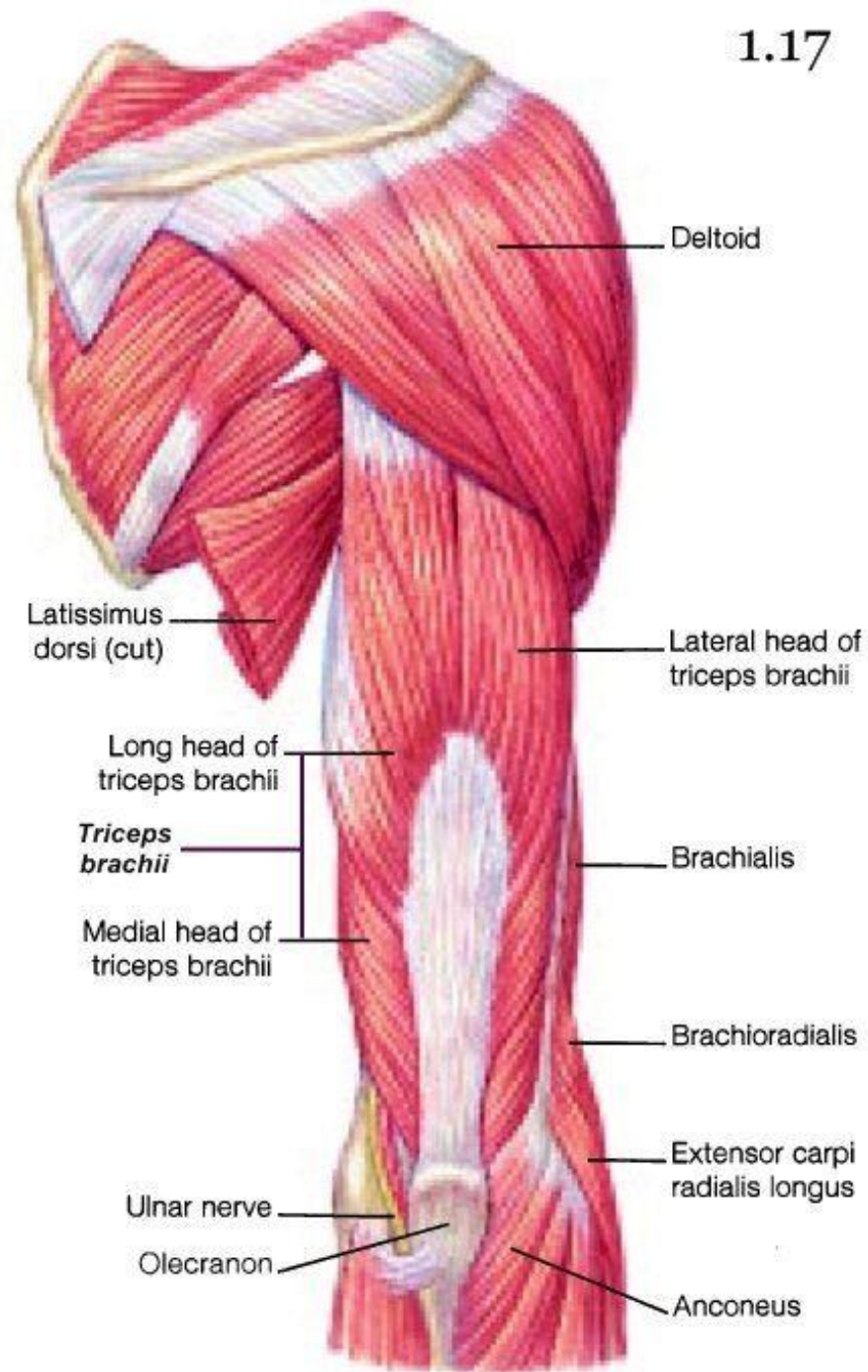




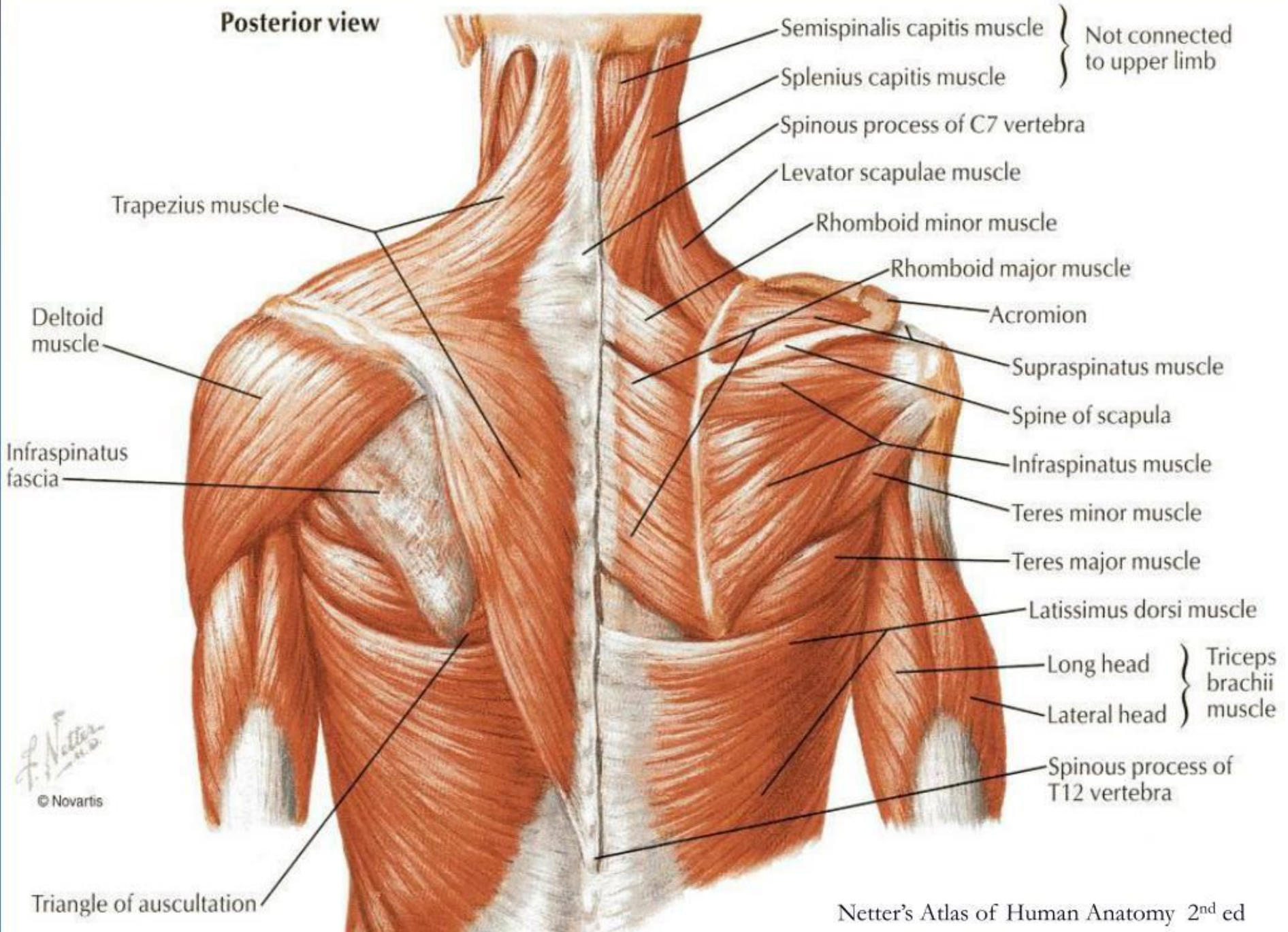




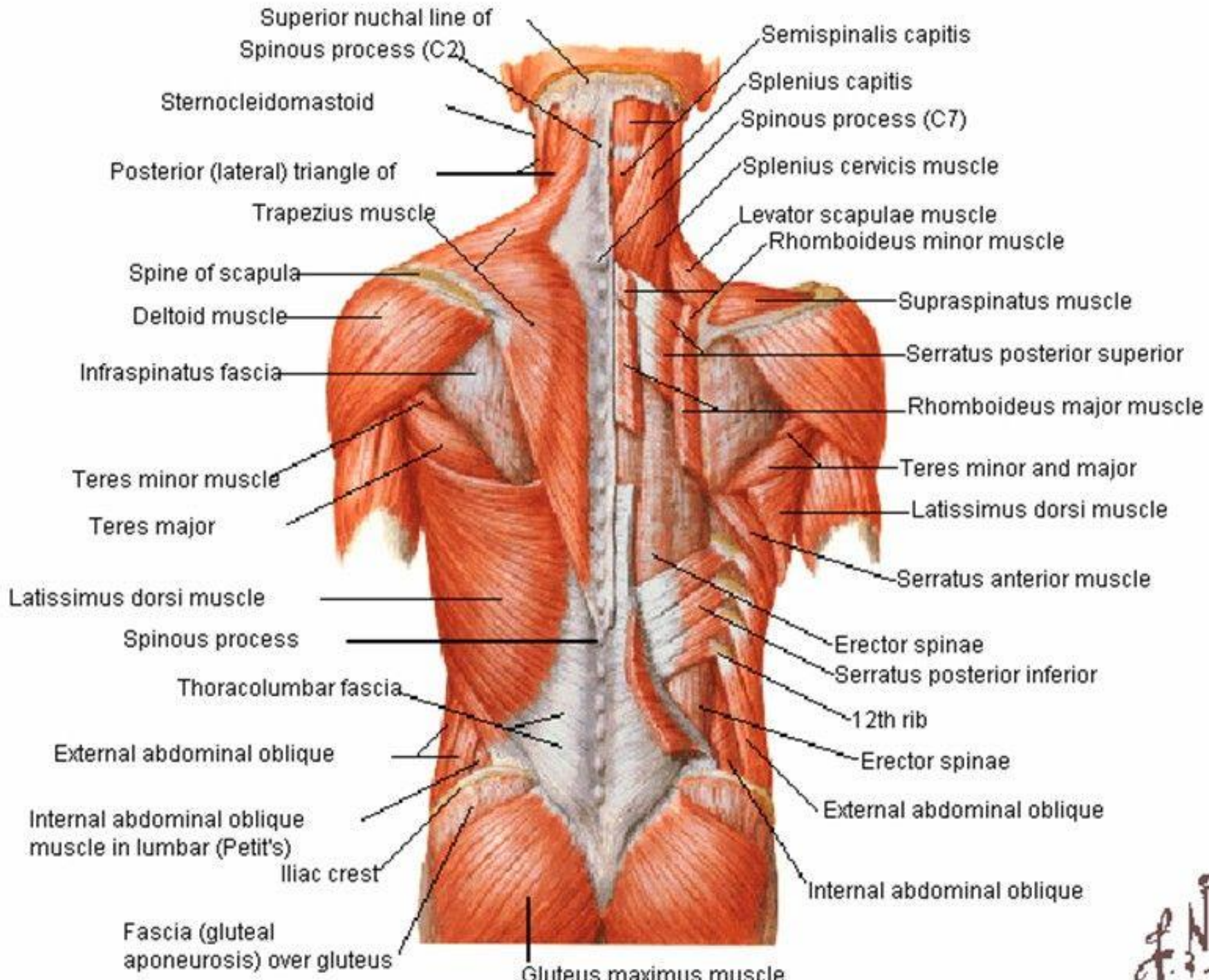
1.17



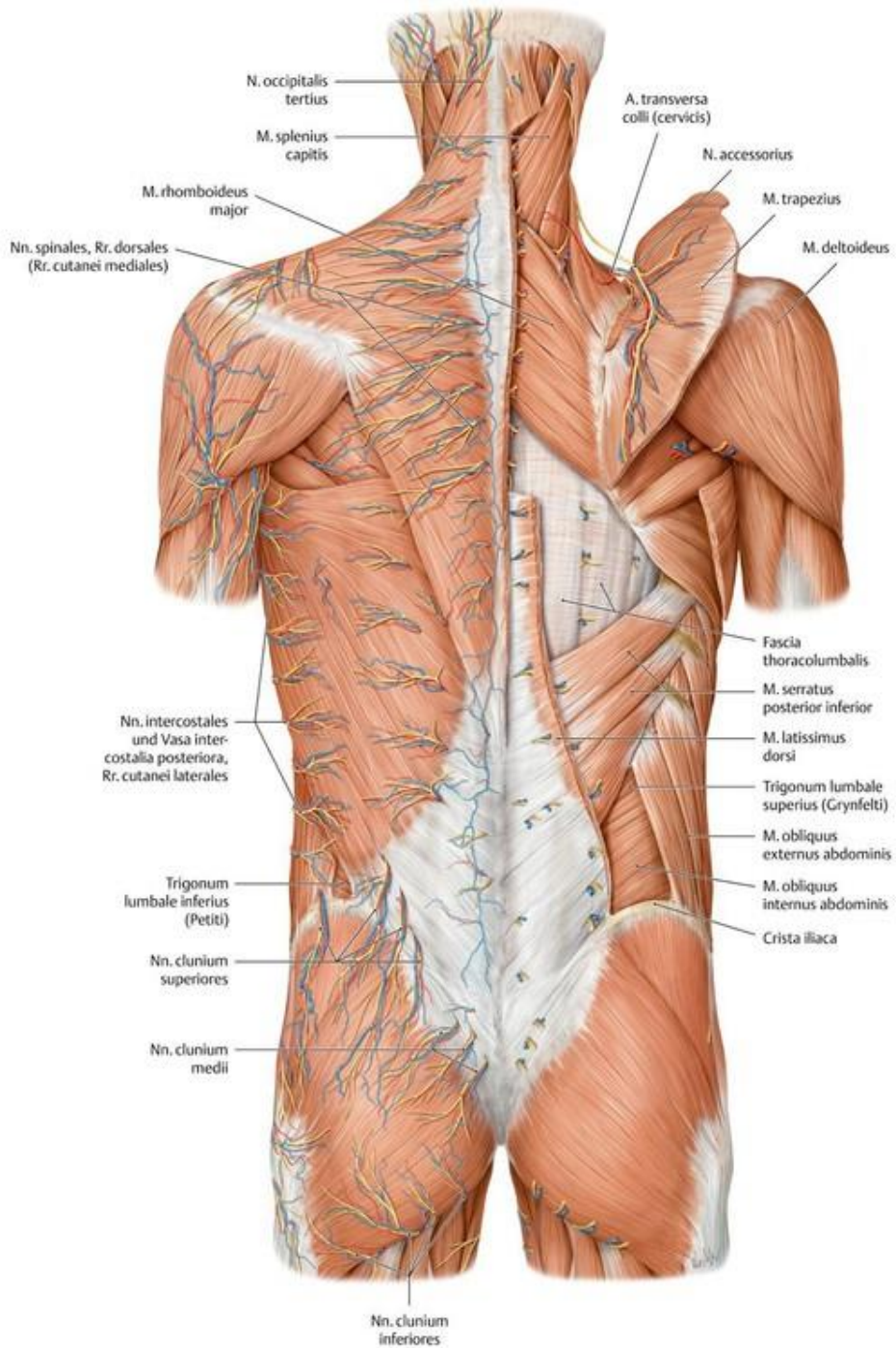
Posterior view

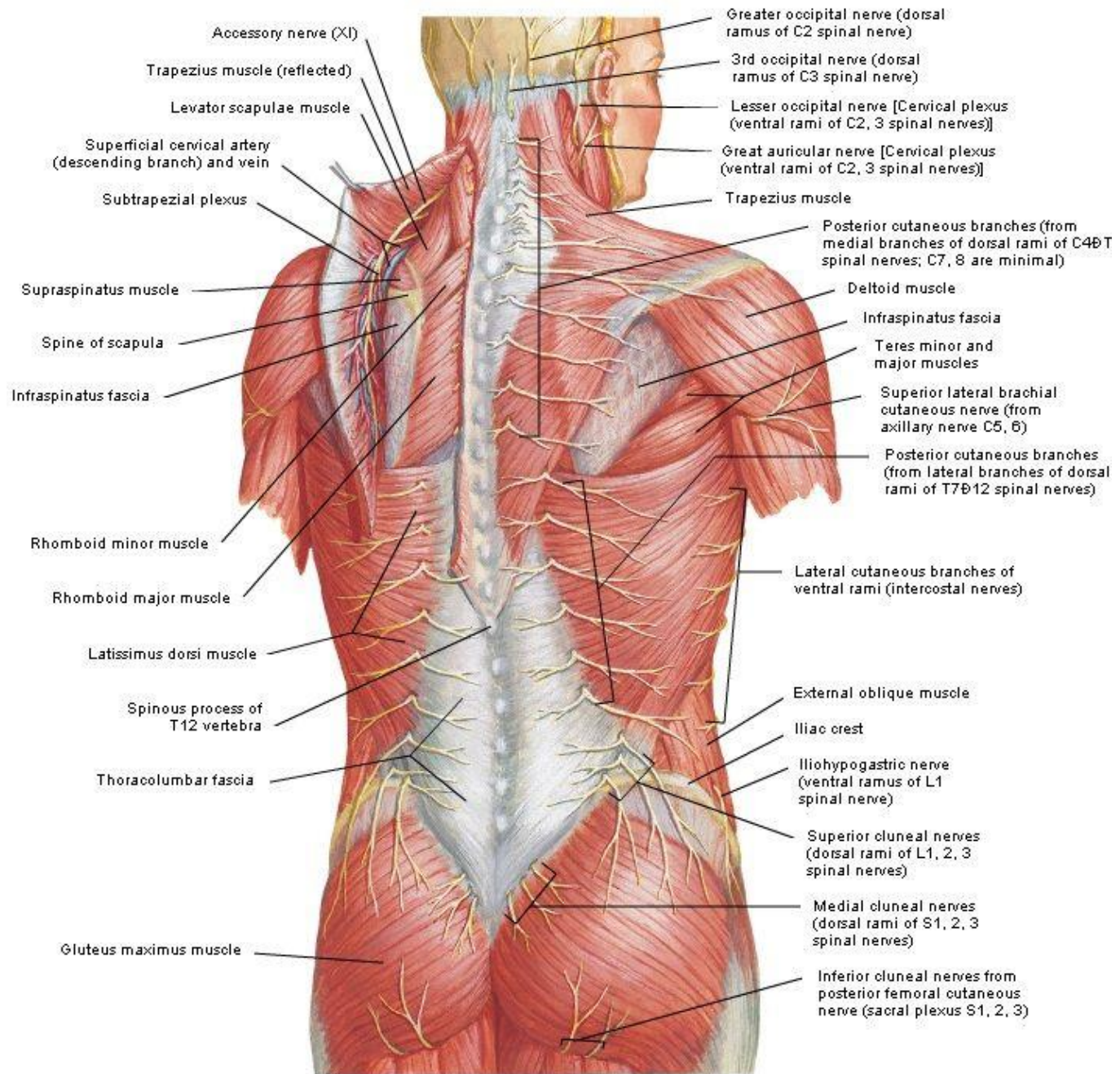


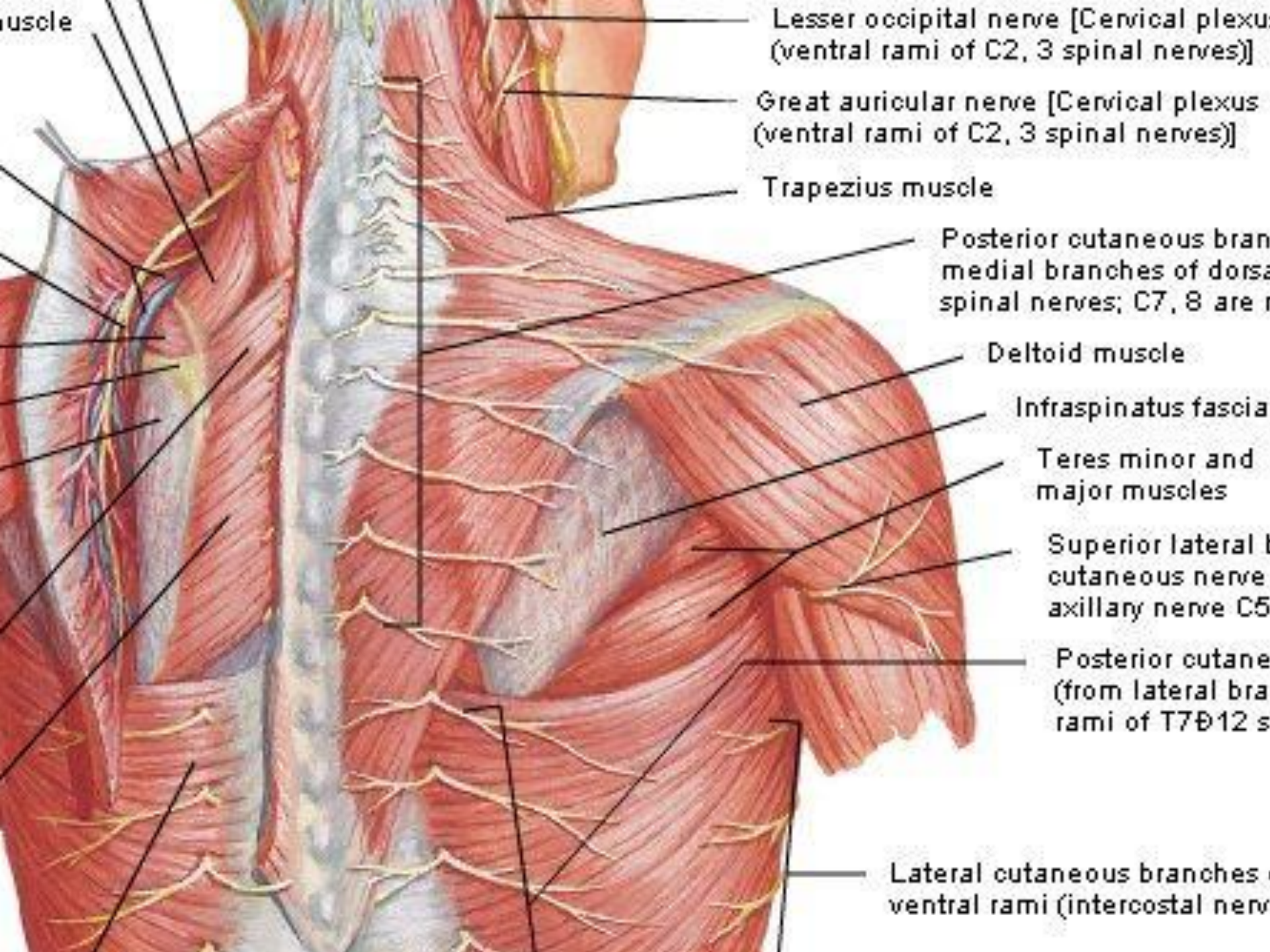
F. Netter M.D.  
© Novartis



A. N. S.







muscle

Lesser occipital nerve [Cervical plexus (ventral rami of C2, 3 spinal nerves)]

Great auricular nerve [Cervical plexus (ventral rami of C2, 3 spinal nerves)]

Trapezius muscle

Posterior cutaneous branch medial branches of dorsal spinal nerves; C7, 8 are n

Deltoid muscle

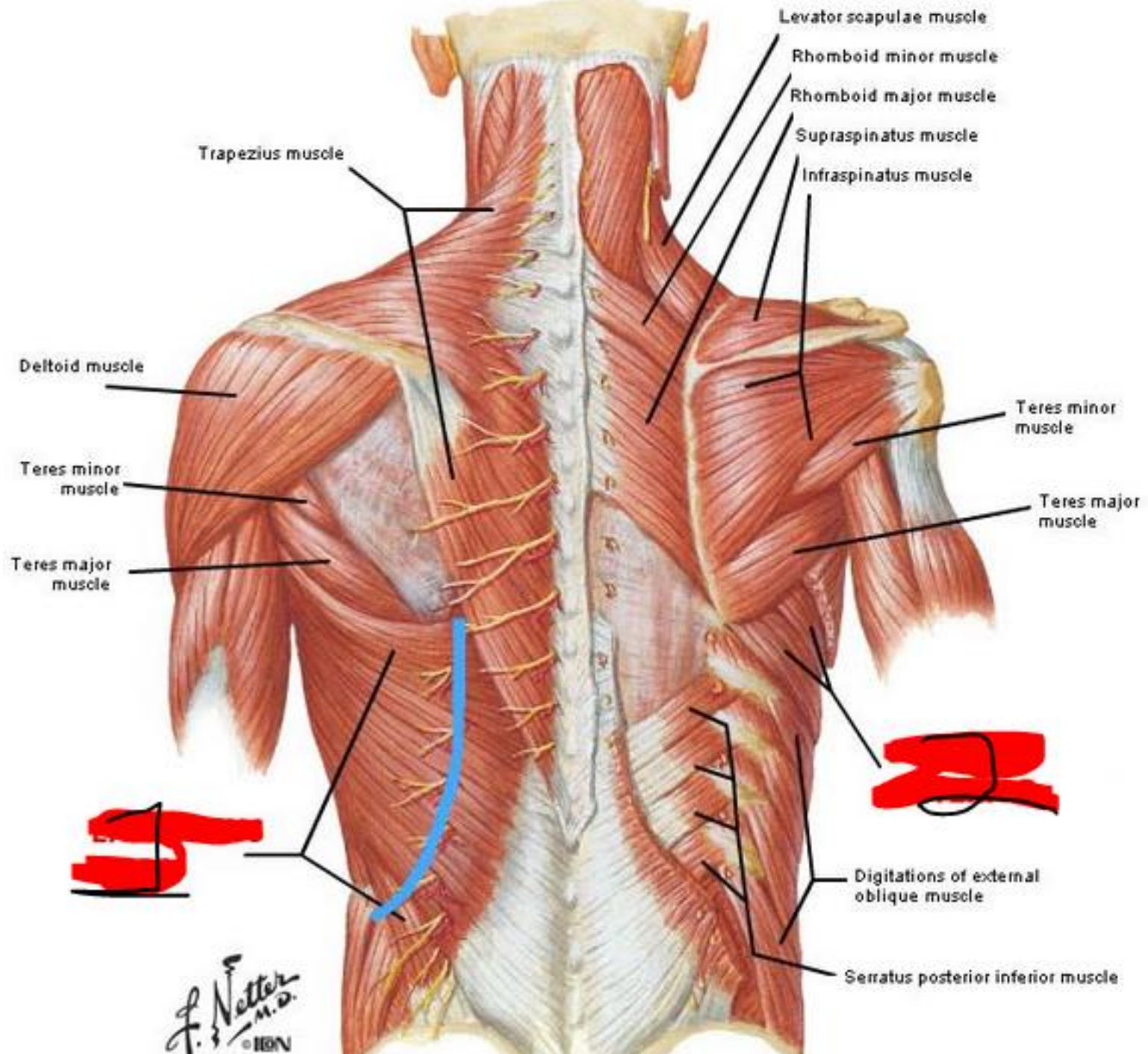
Infraspinatus fascia

Teres minor and major muscles

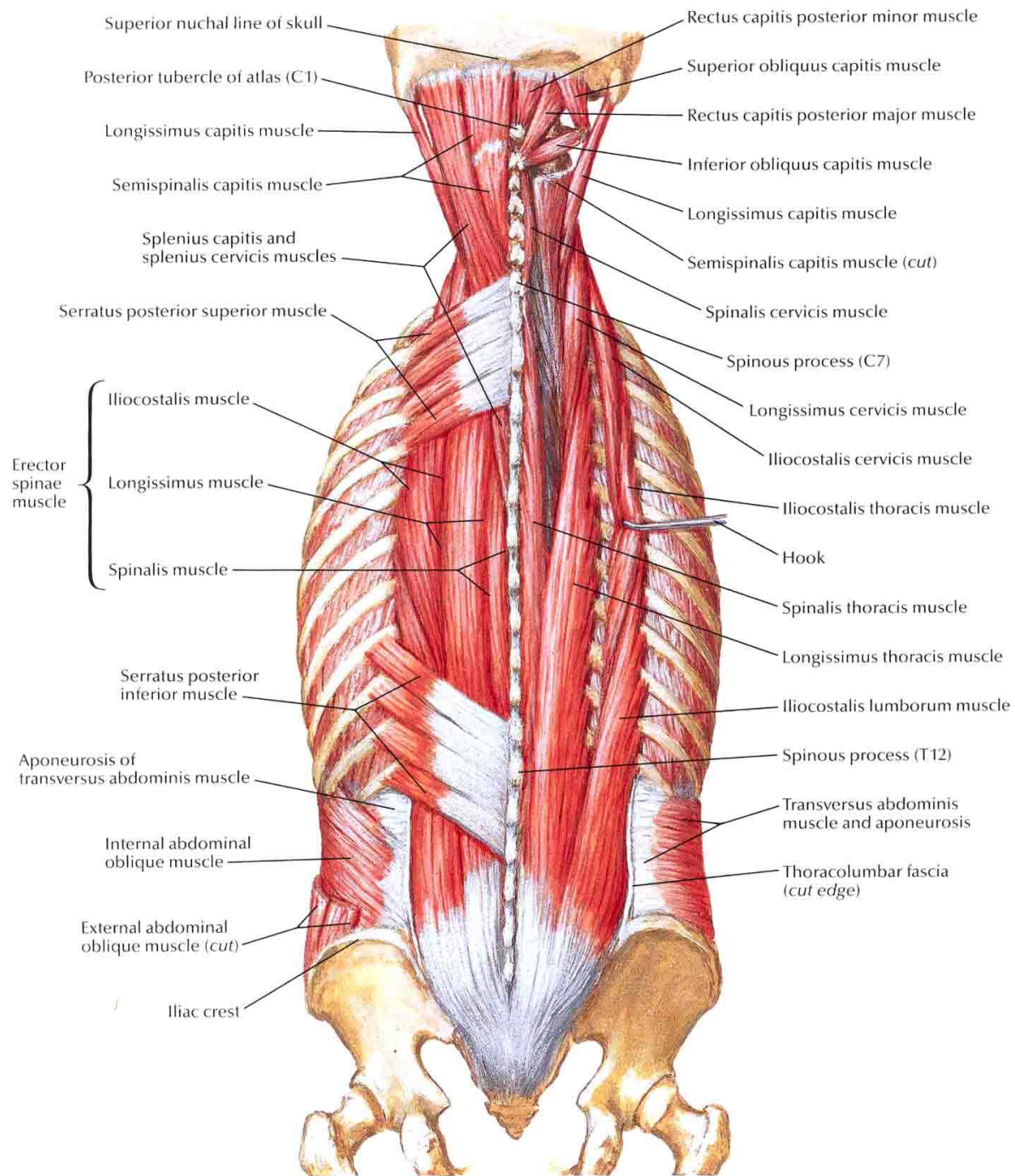
Superior lateral cutaneous nerve axillary nerve C5

Posterior cutaneous (from lateral branch rami of T7-12 s

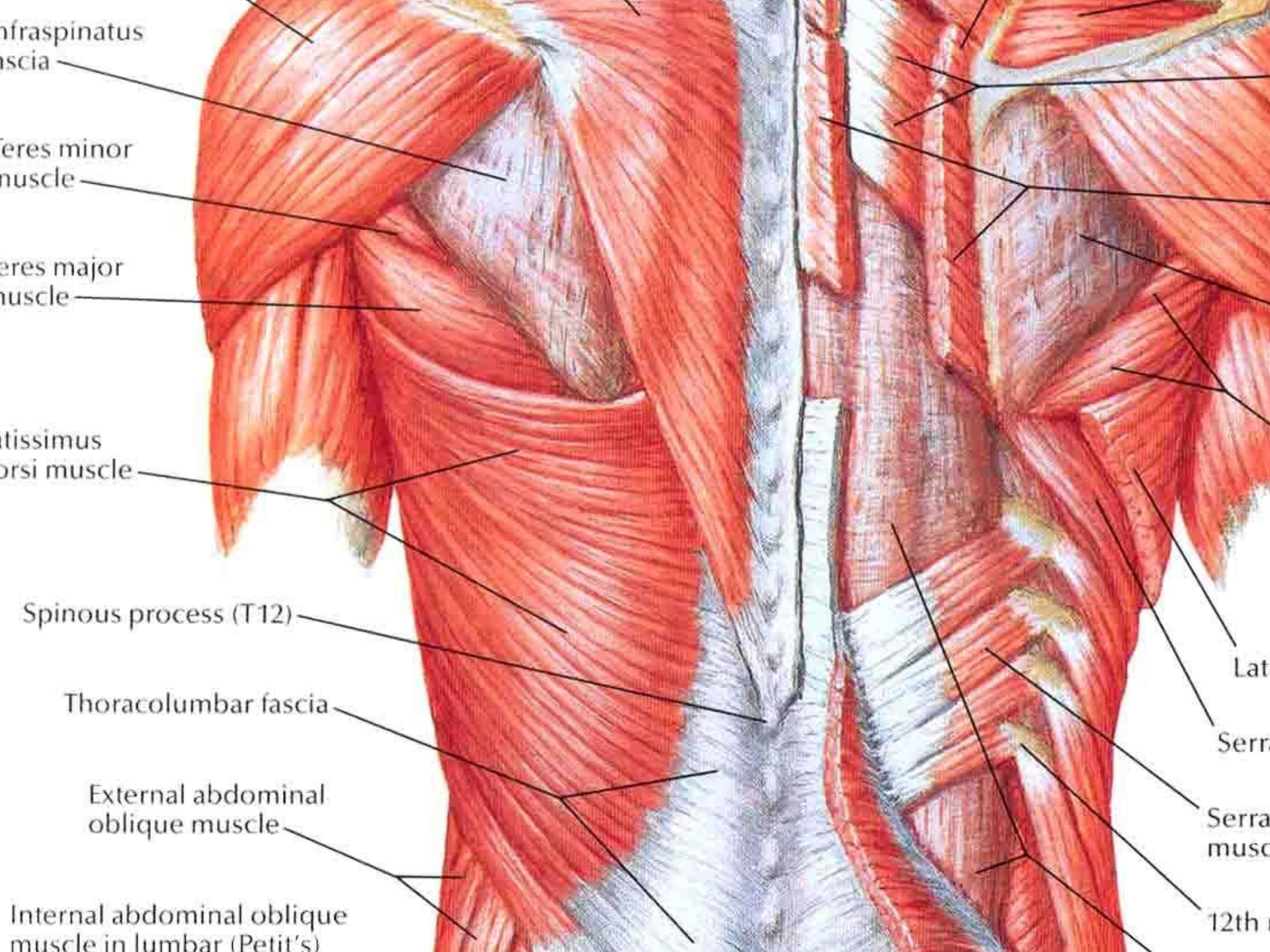
Lateral cutaneous branches ventral rami (intercostal nerve



F. Netter  
M.D.  
© IBN







Infraspinatus  
fascia

Teres minor  
muscle

Teres major  
muscle

Latissimus  
dorsi muscle

Spinous process (T12)

Thoracolumbar fascia

External abdominal  
oblique muscle

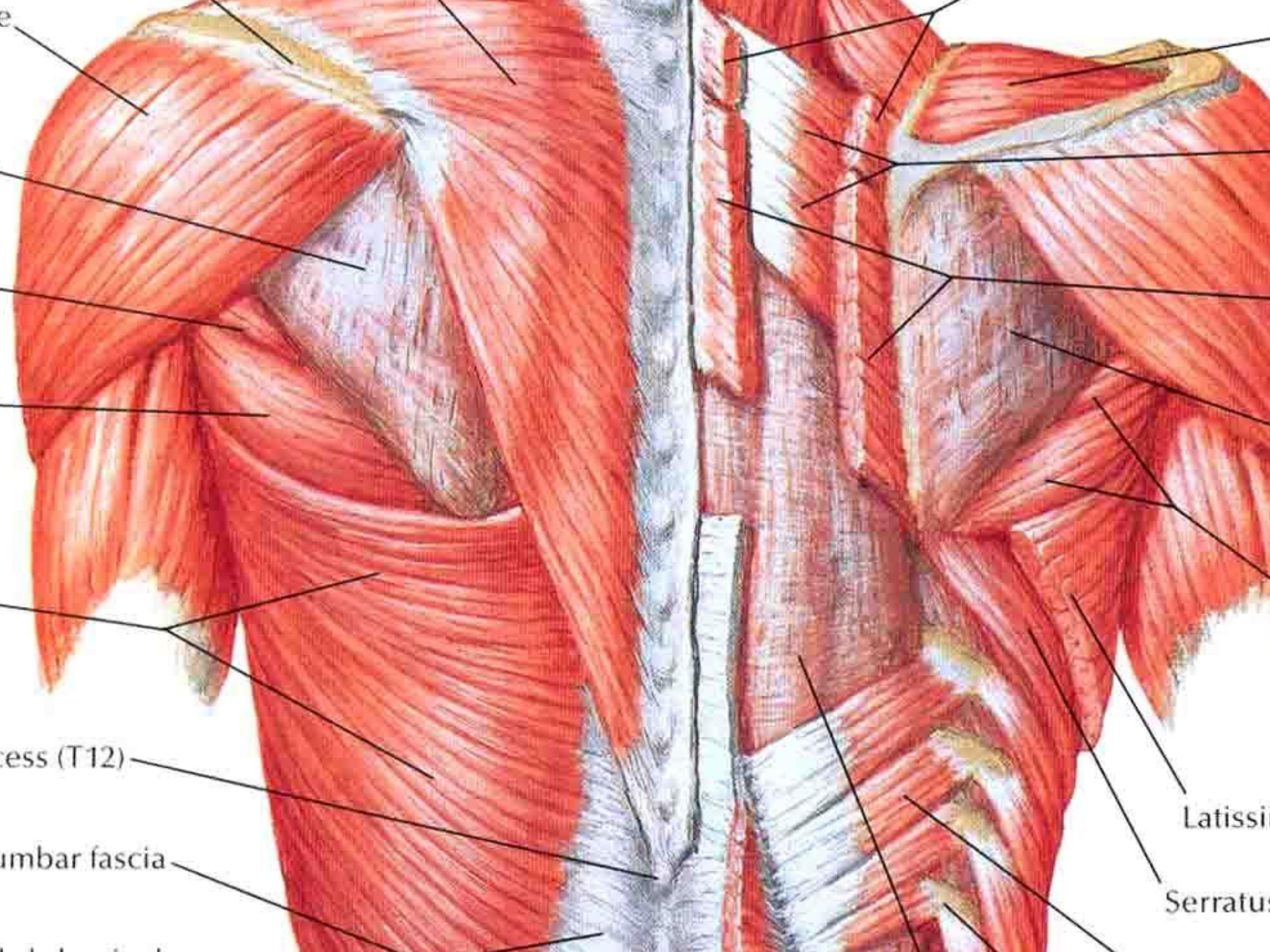
Internal abdominal oblique  
muscle in lumbar (Petit's)

Lat

Serr

Serra  
muscle

12th r

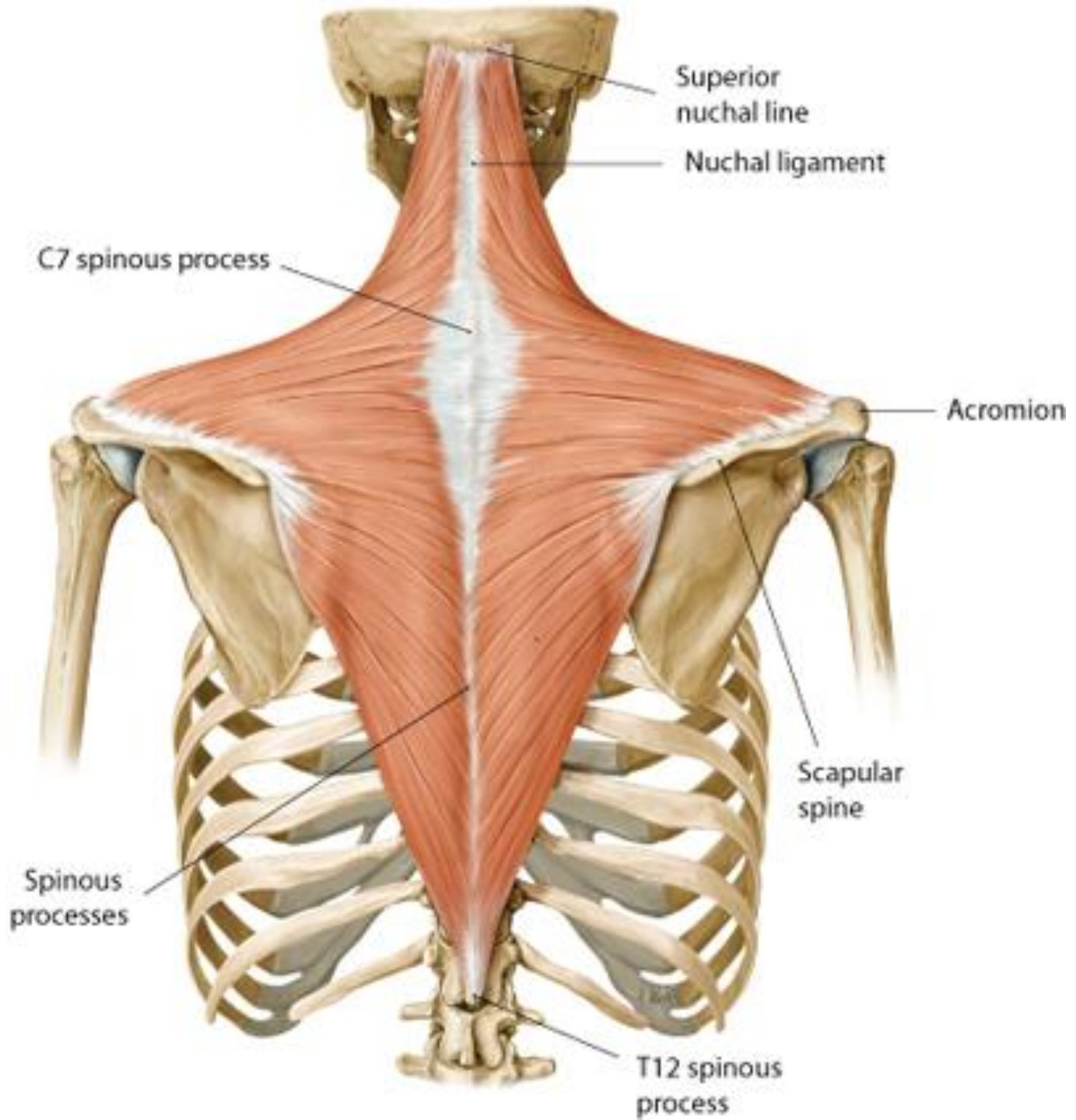


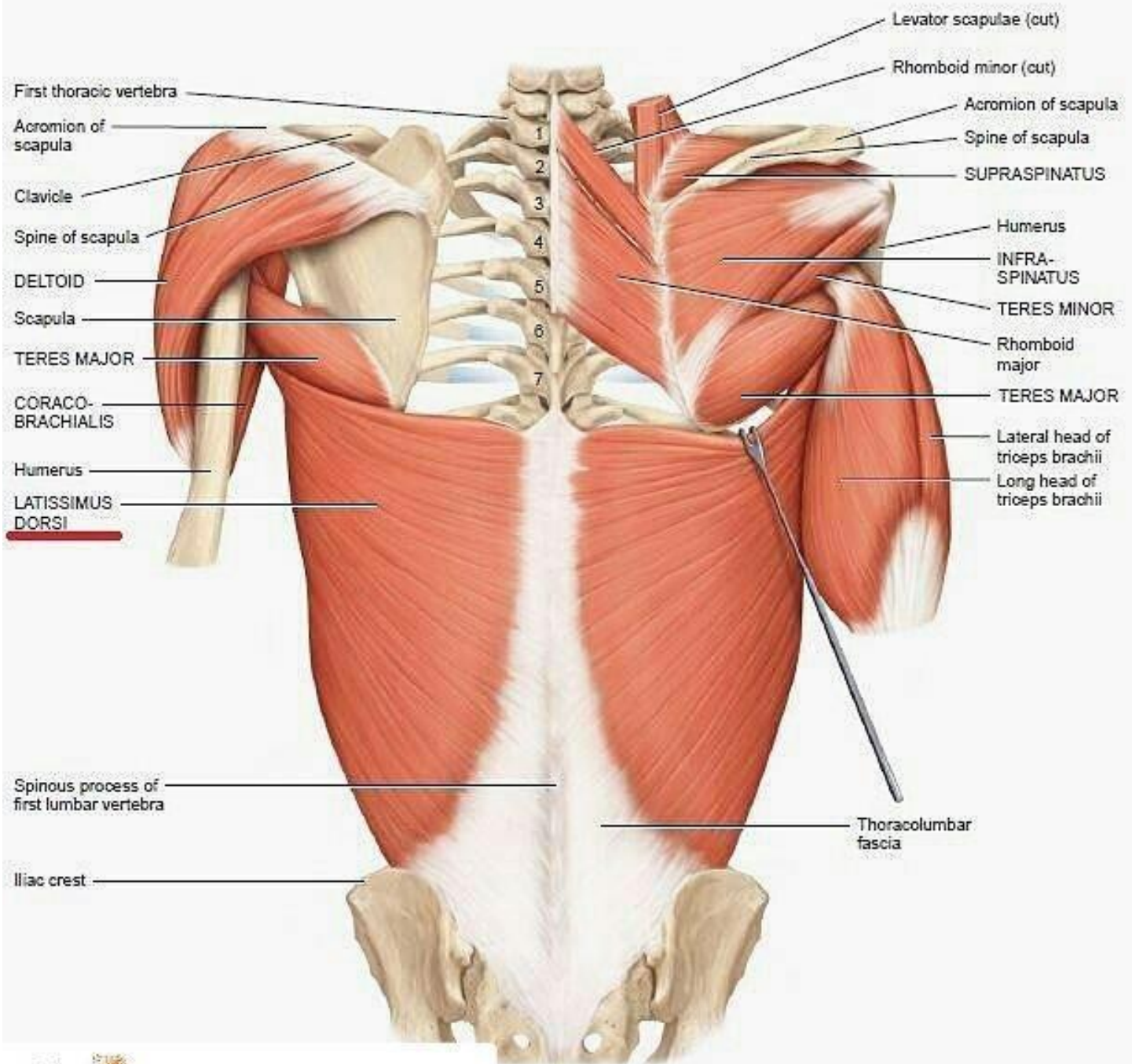
Process (T12)

Lumbar fascia

Latissimus

Serratus





Sternocleidomastoid

TRAPEZIUS (superior fibers)

TRAPEZIUS (middle fibers)

Acromion of scapula

Deltoid

Infraspinatus

Teres minor

Teres major

TRAPEZIUS (inferior fibers)

SERRATUS ANTERIOR

Triceps brachii

Twelfth thoracic vertebra

Occipital bone

Ligamentum nuchae

Cervical vertebrae

LEVATOR SCAPULAE

Clavicle

SUBCLAVIUS

RHOMBOID MINOR

Scapula

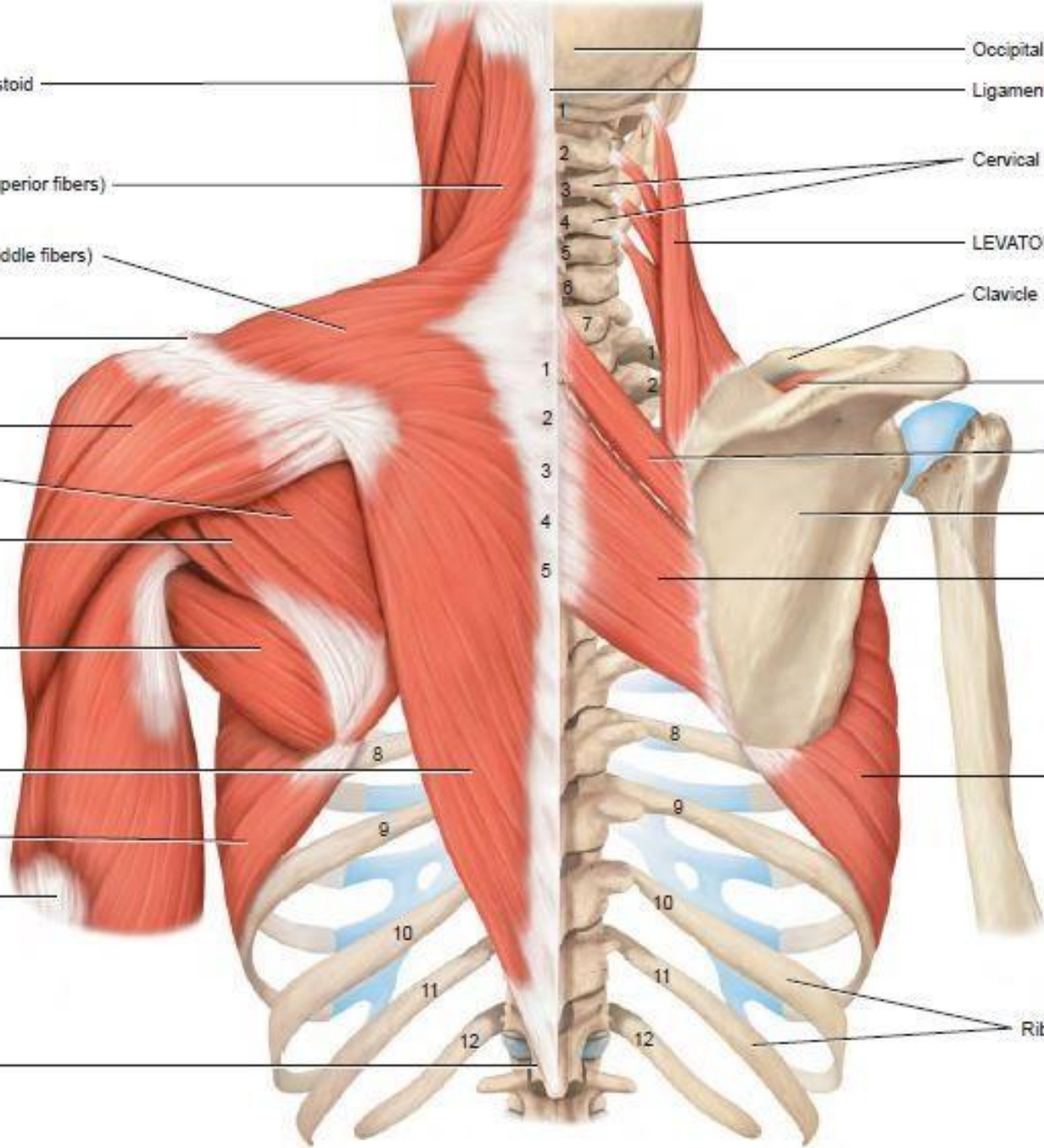
RHOMBOID MAJOR

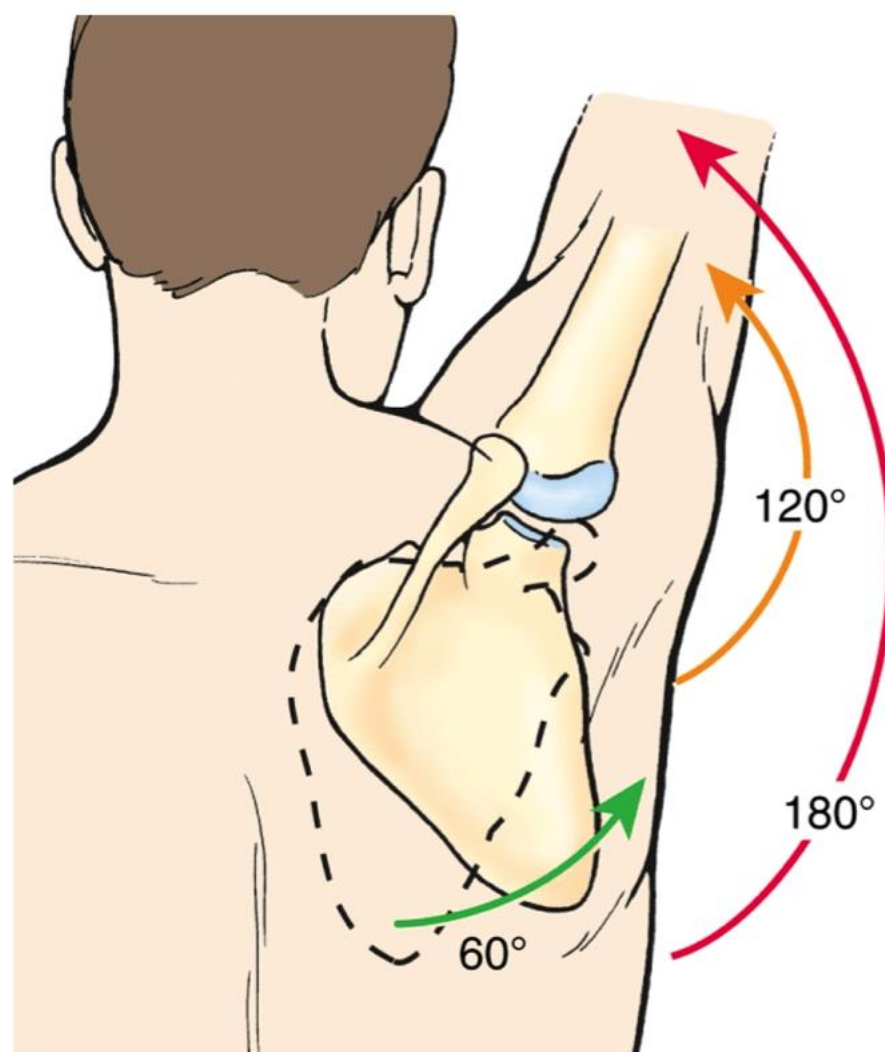
SERRATUS ANTERIOR

Ribs

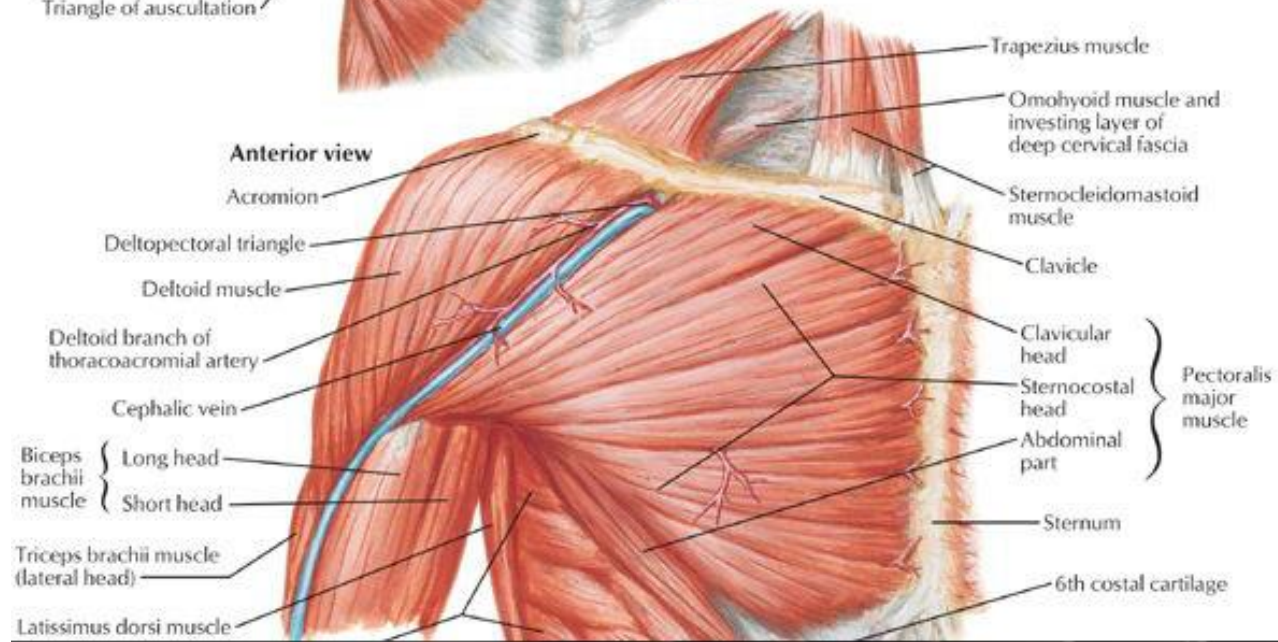
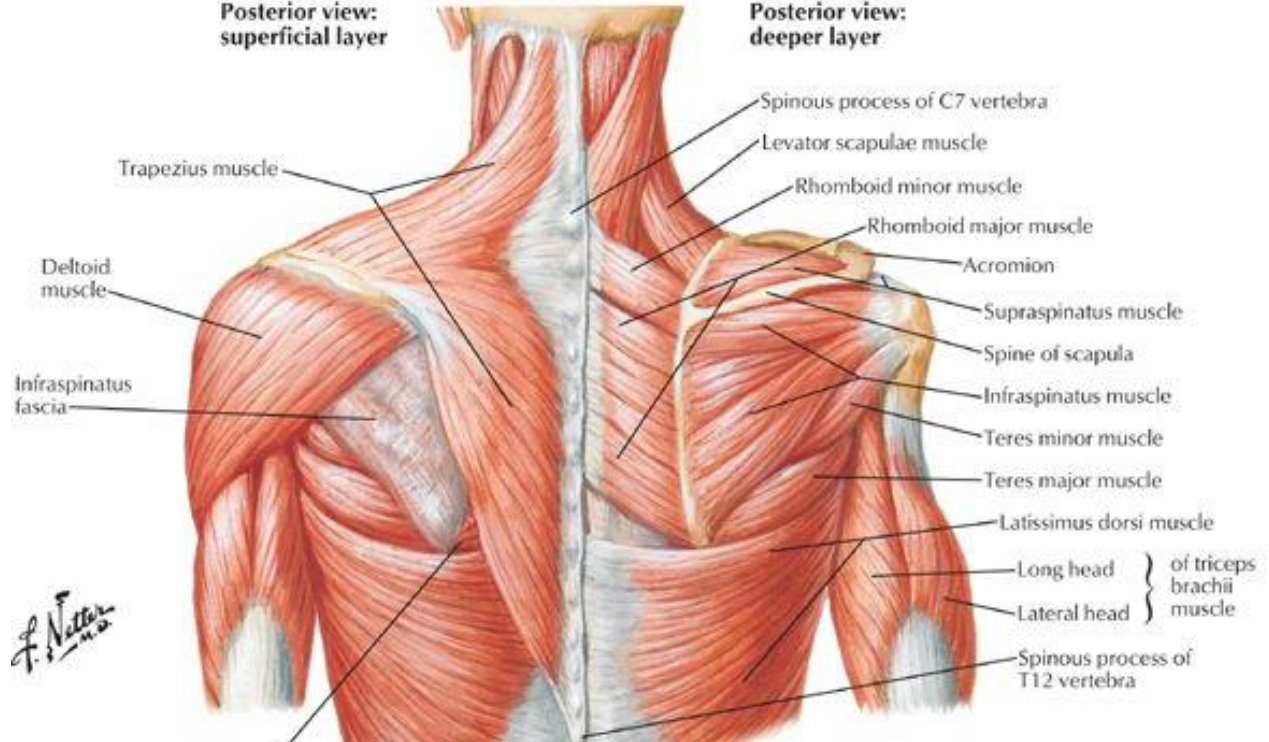
(d) Posterior superficial view

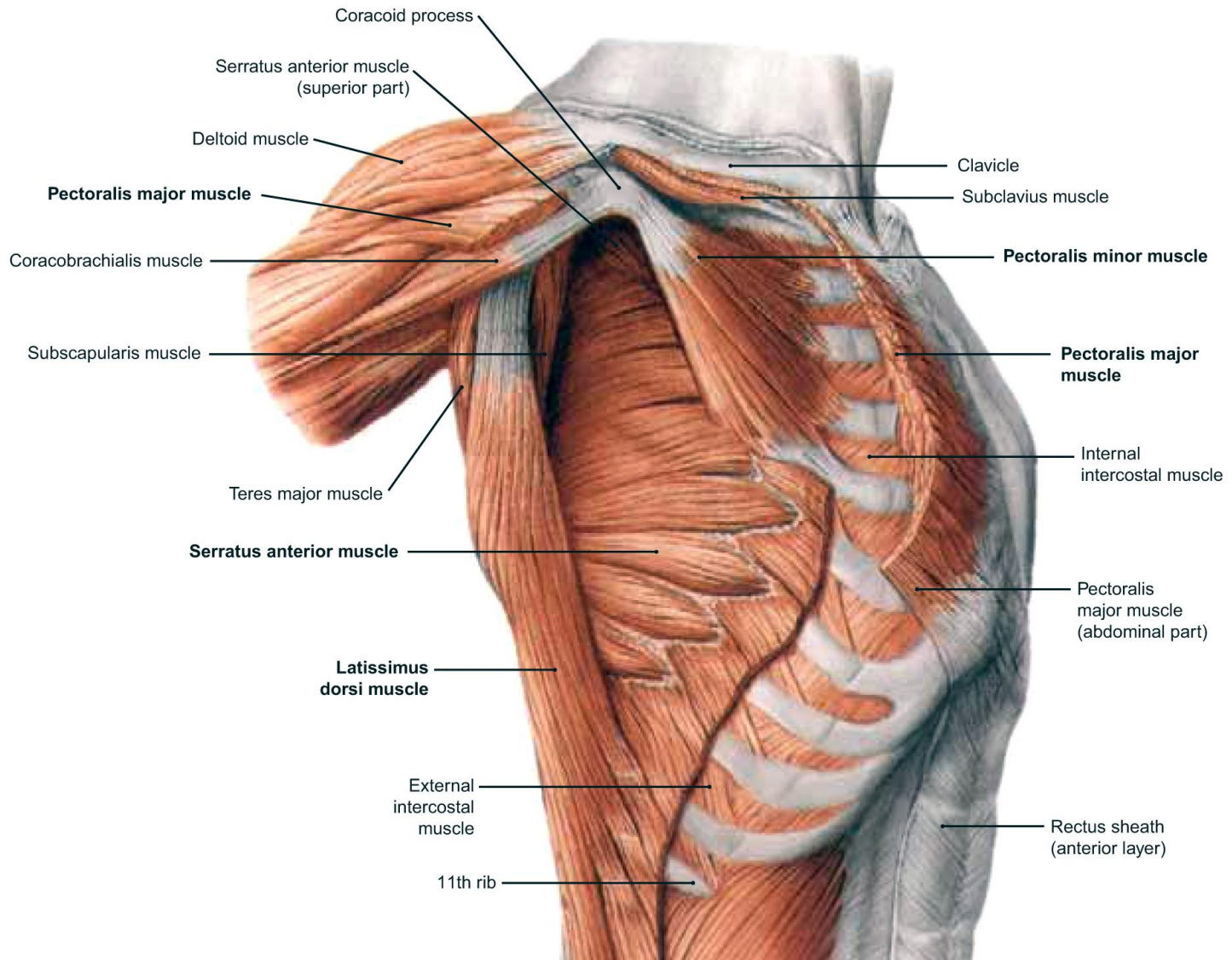
(e) Posterior deep view





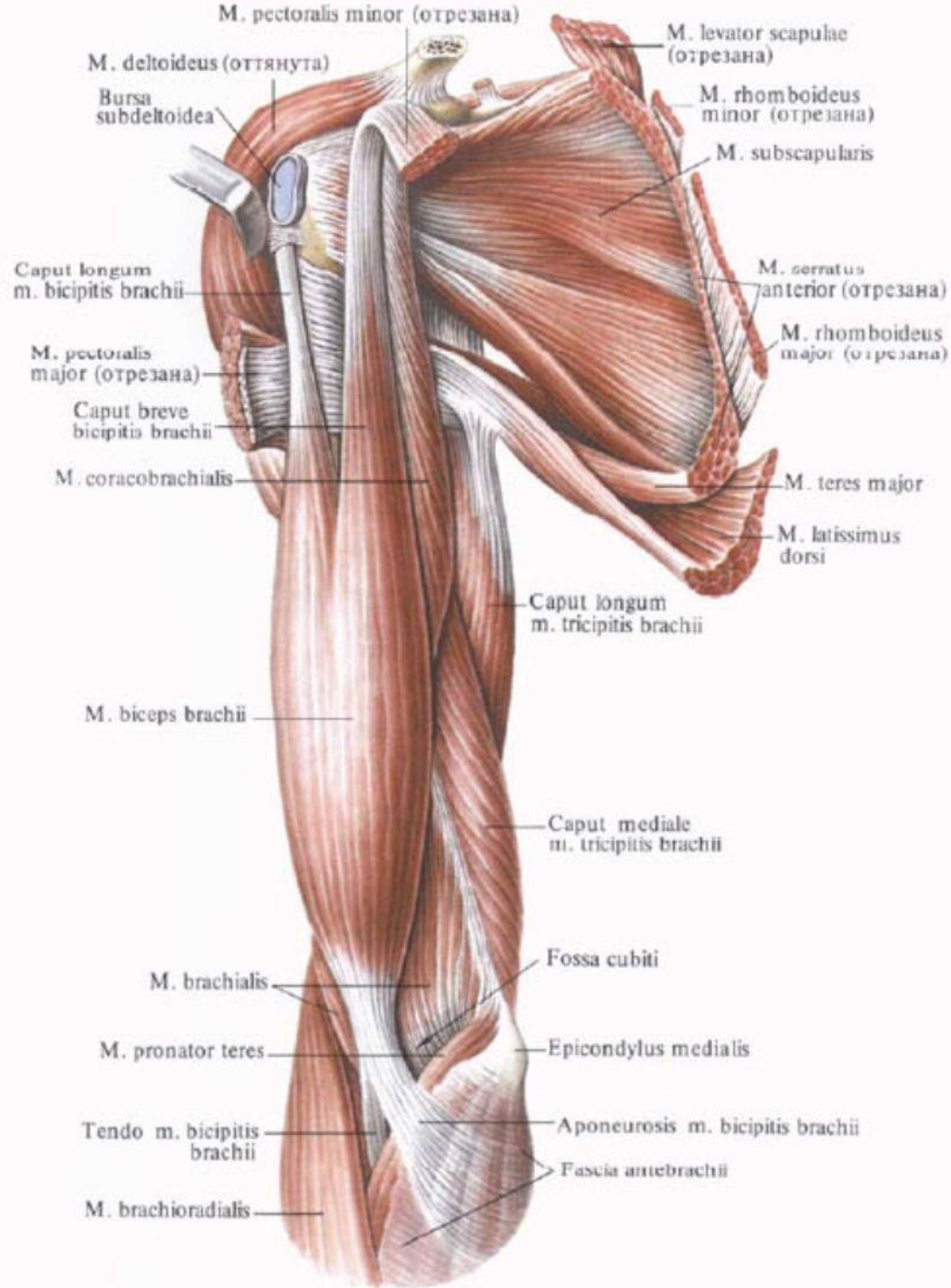
**(C) Scapulo-humeral rhythm. The scapula and humerus move in 1:2 ratio. When the arm is abducted 180 degrees, 60 degrees occurs by rotation of the scapula, and 120 degrees by rotation of the humerus at the shoulder joint.**

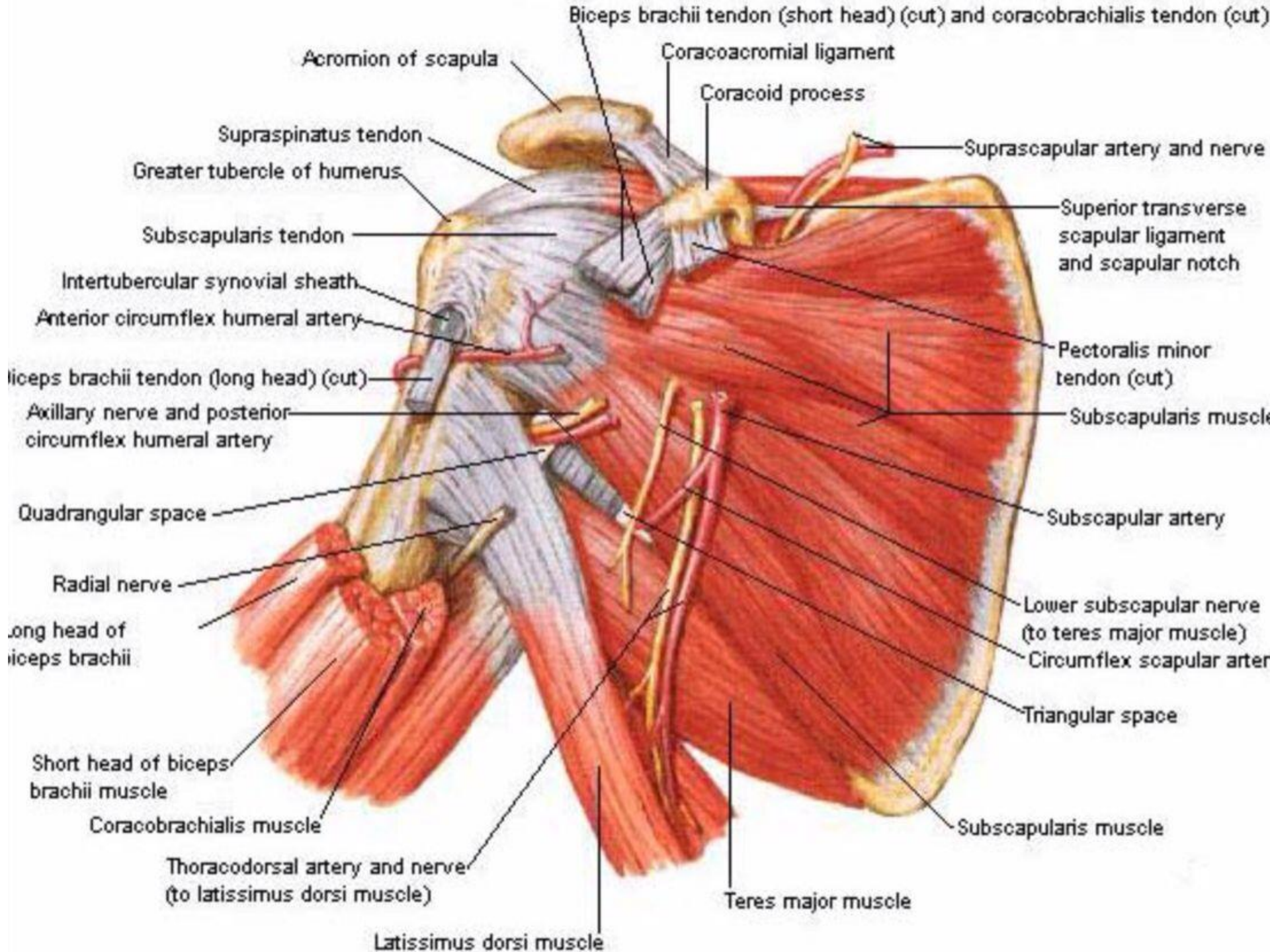


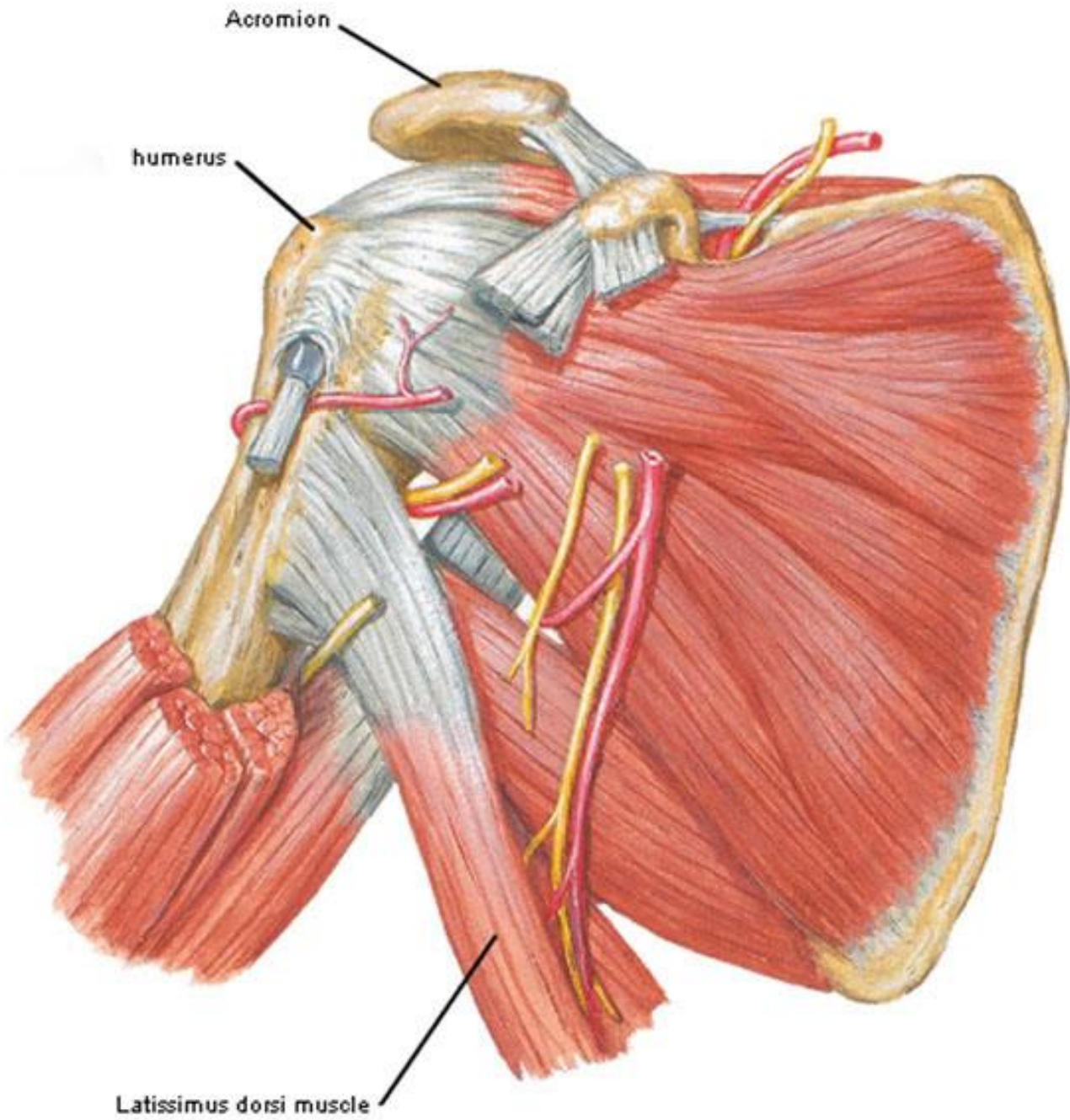


**PECTORALIS MINOR, SERRATUS ANTERIOR, AND LATISSIMUS DORSI MUSCLES, LATERAL VIEW (RIGHT)**

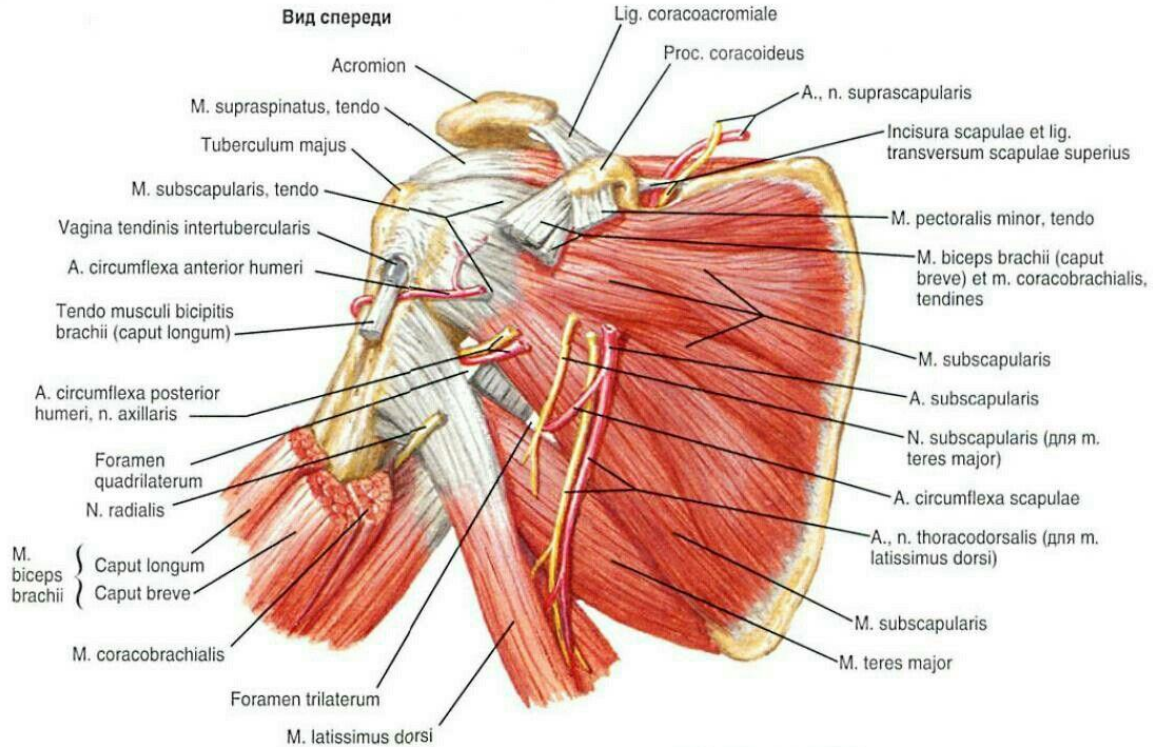




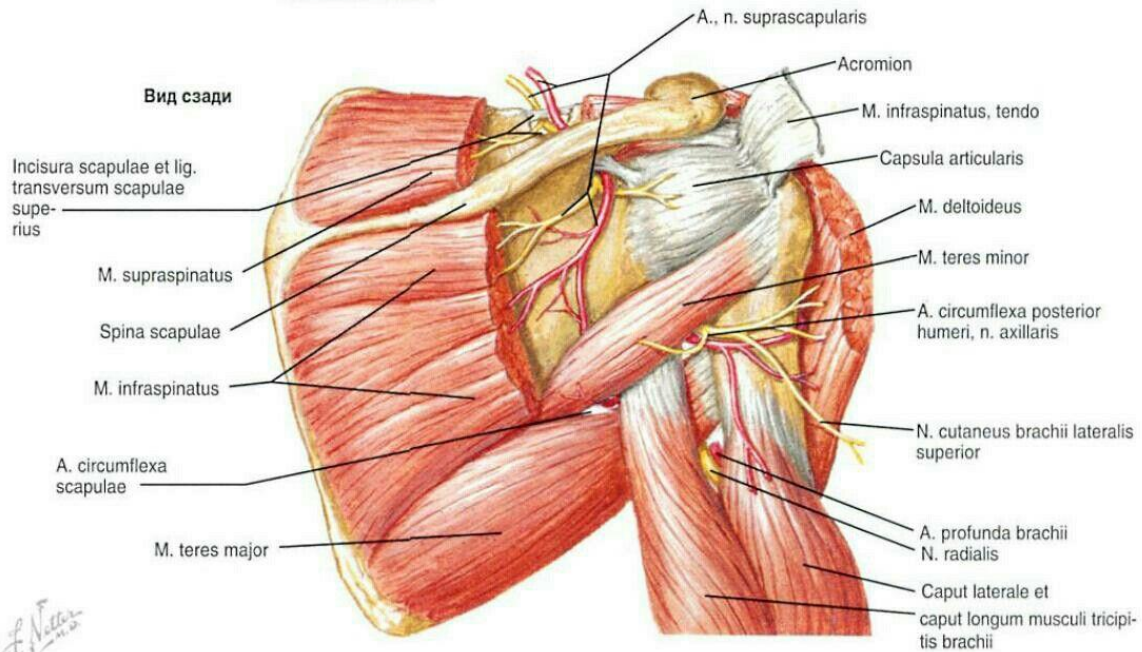


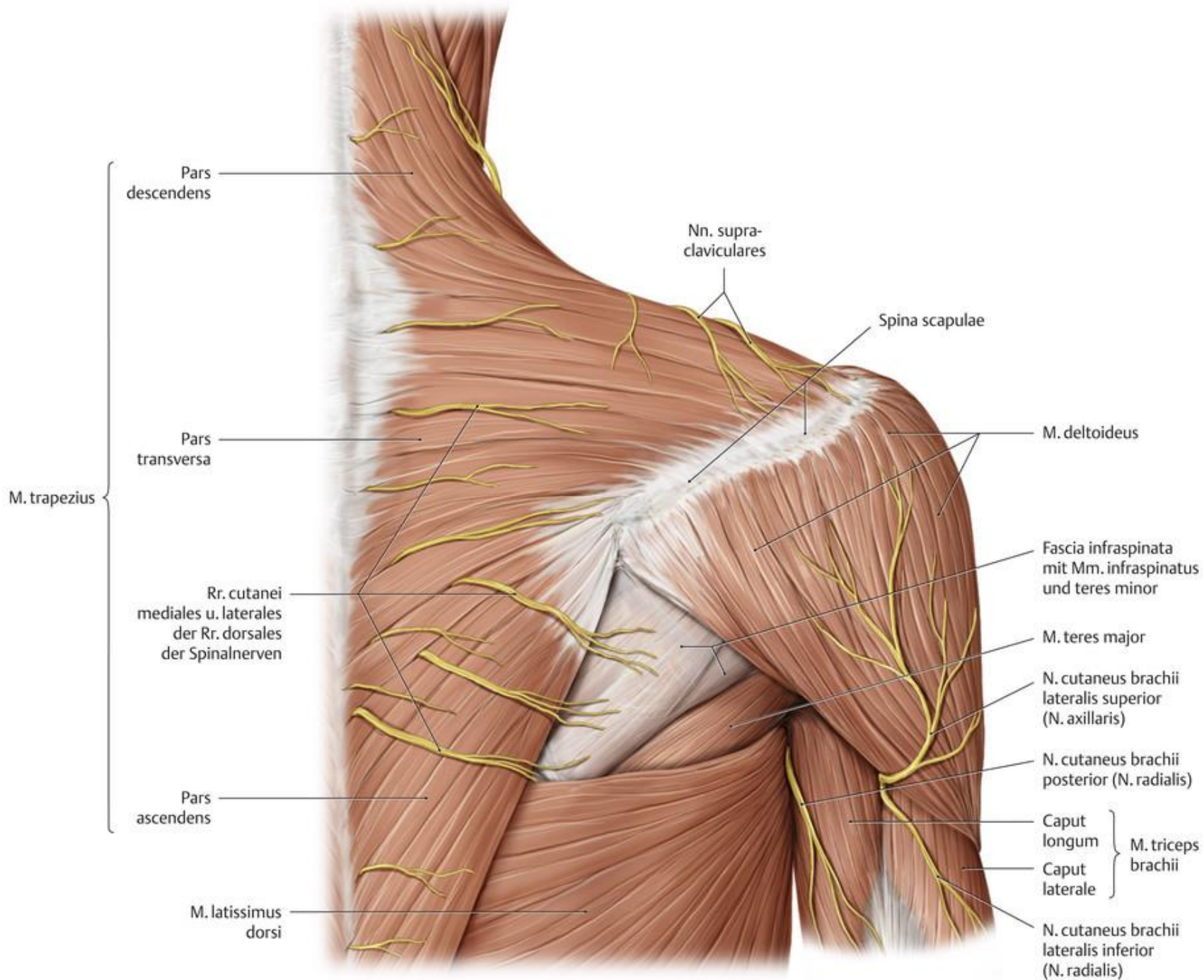


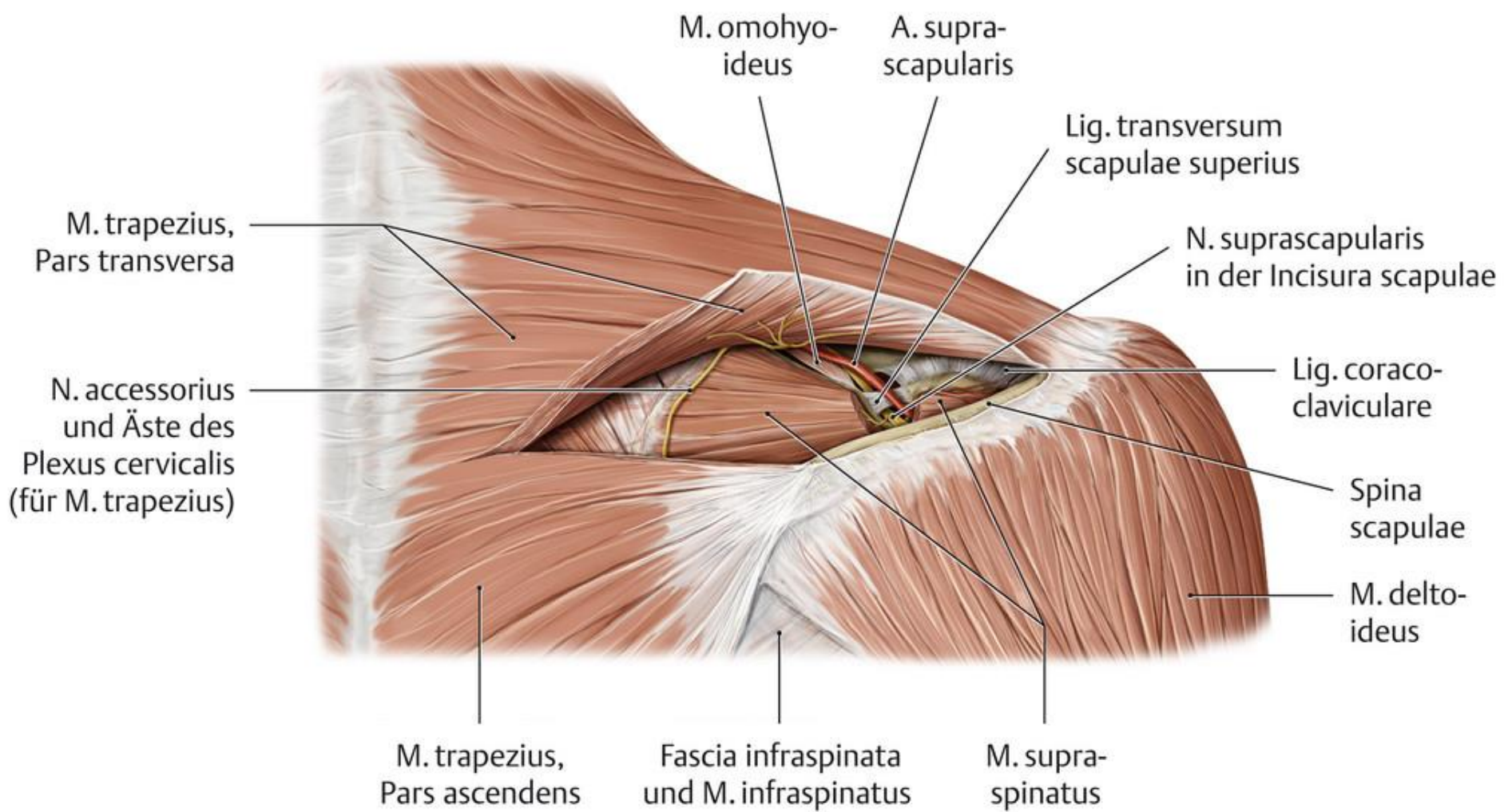
**Вид спереди**

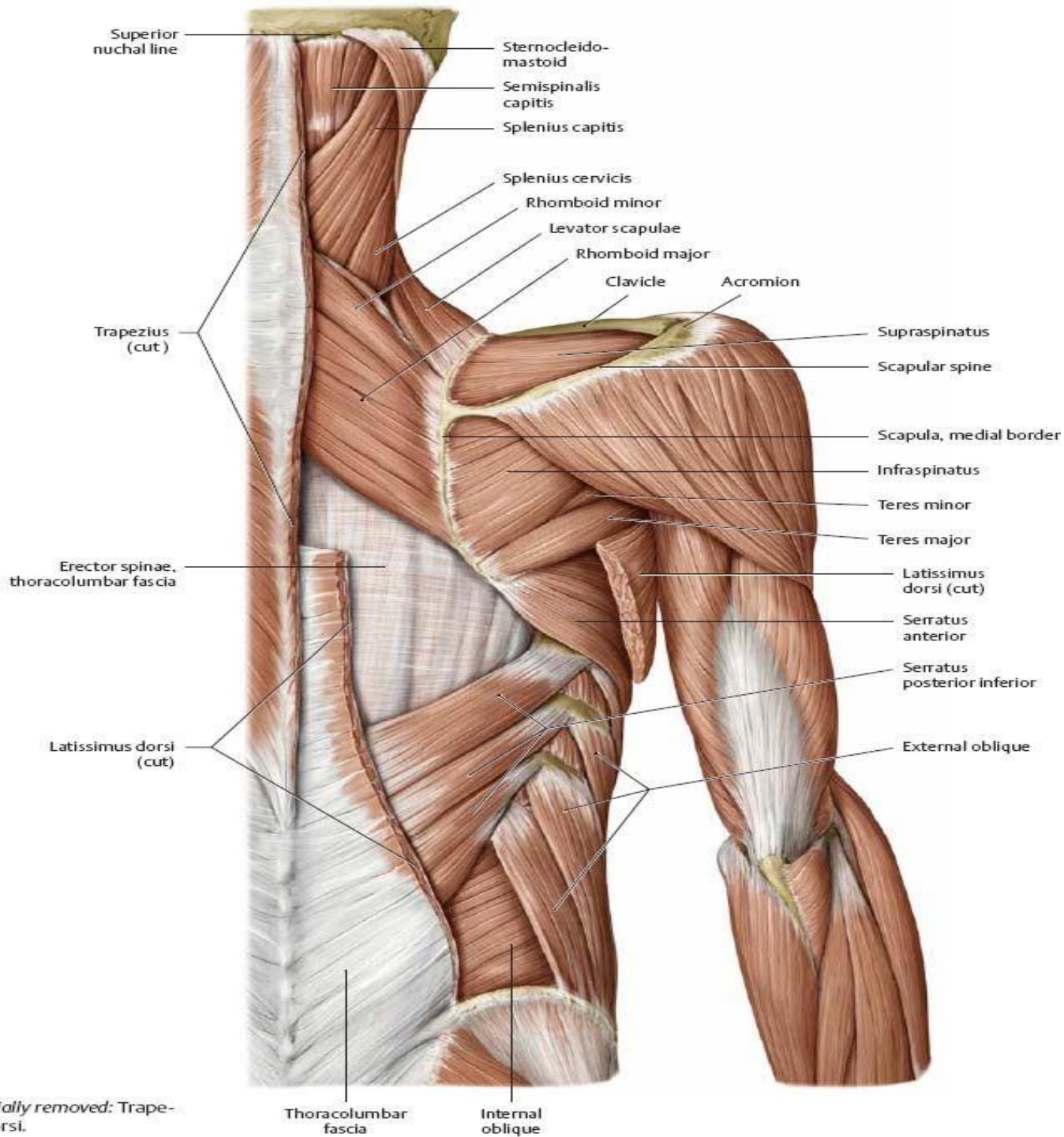


**Вид сзади**

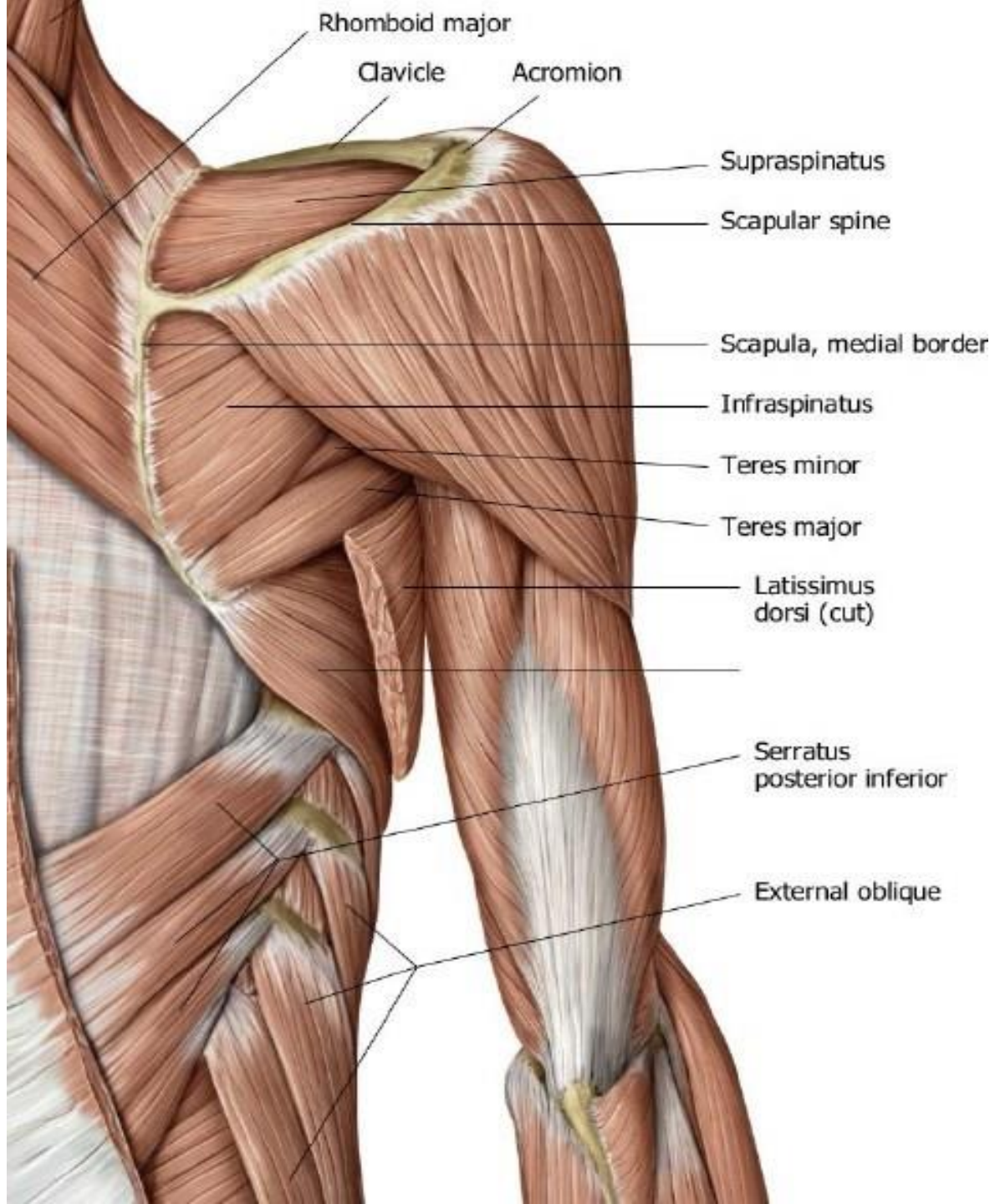




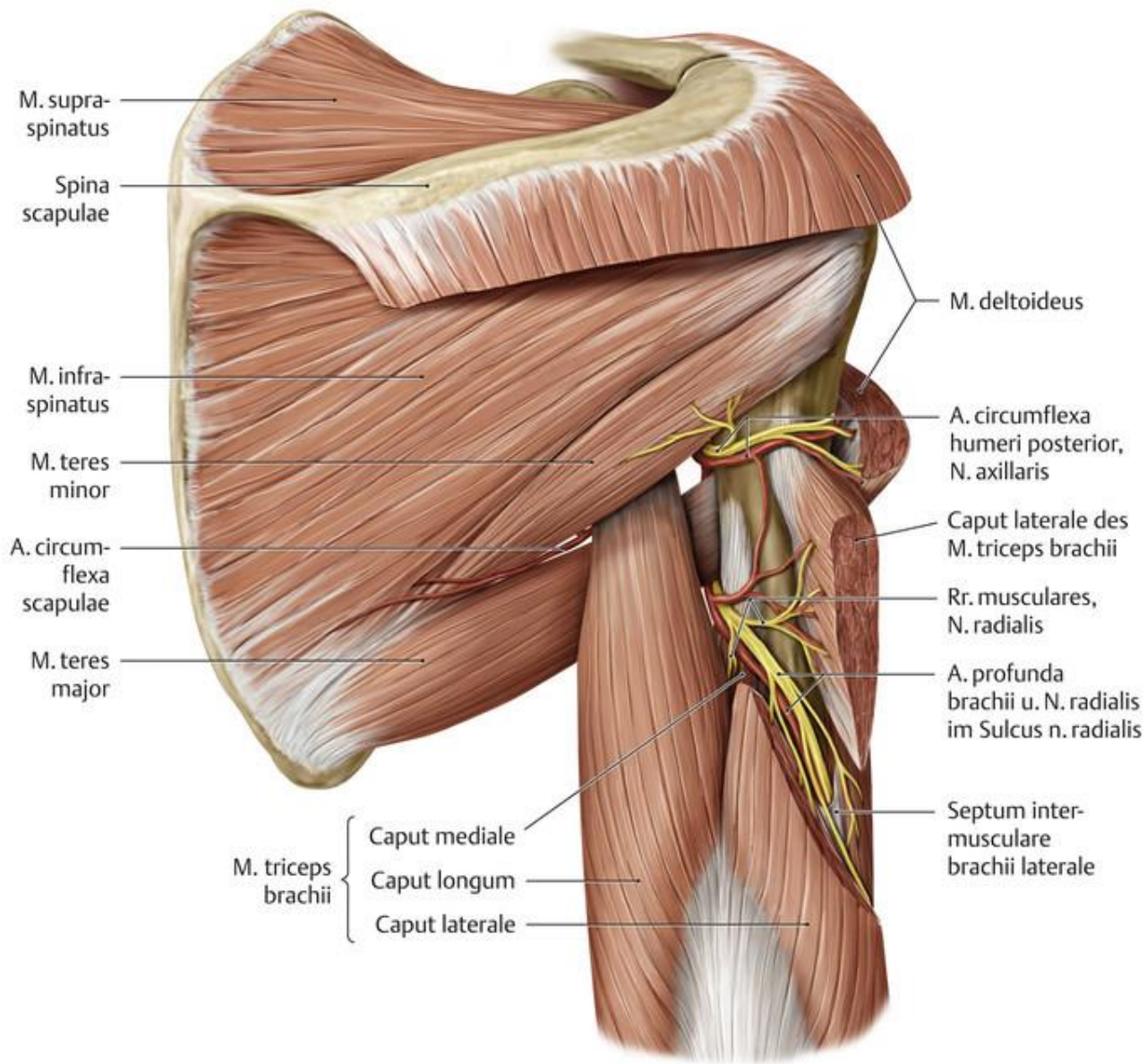


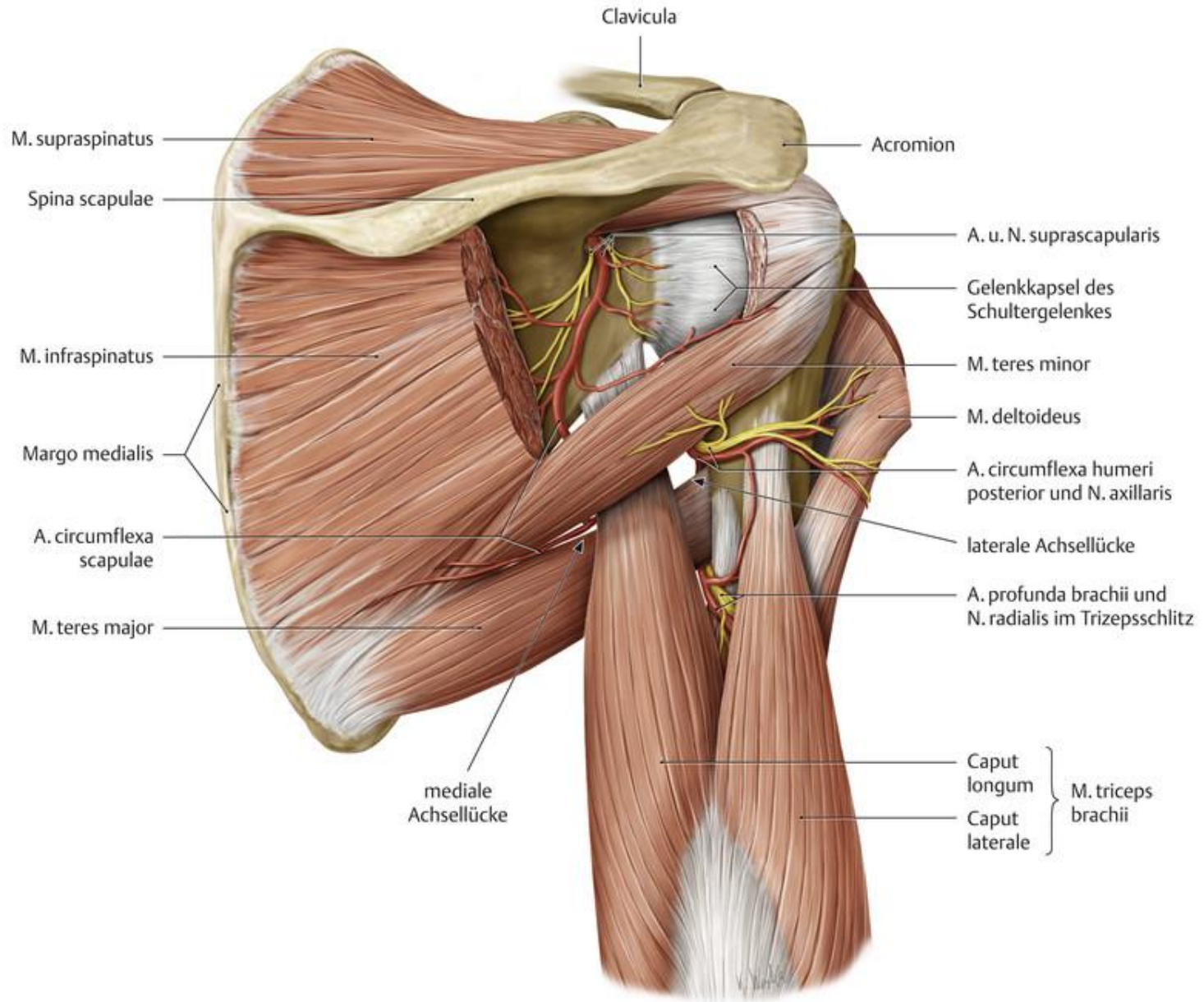


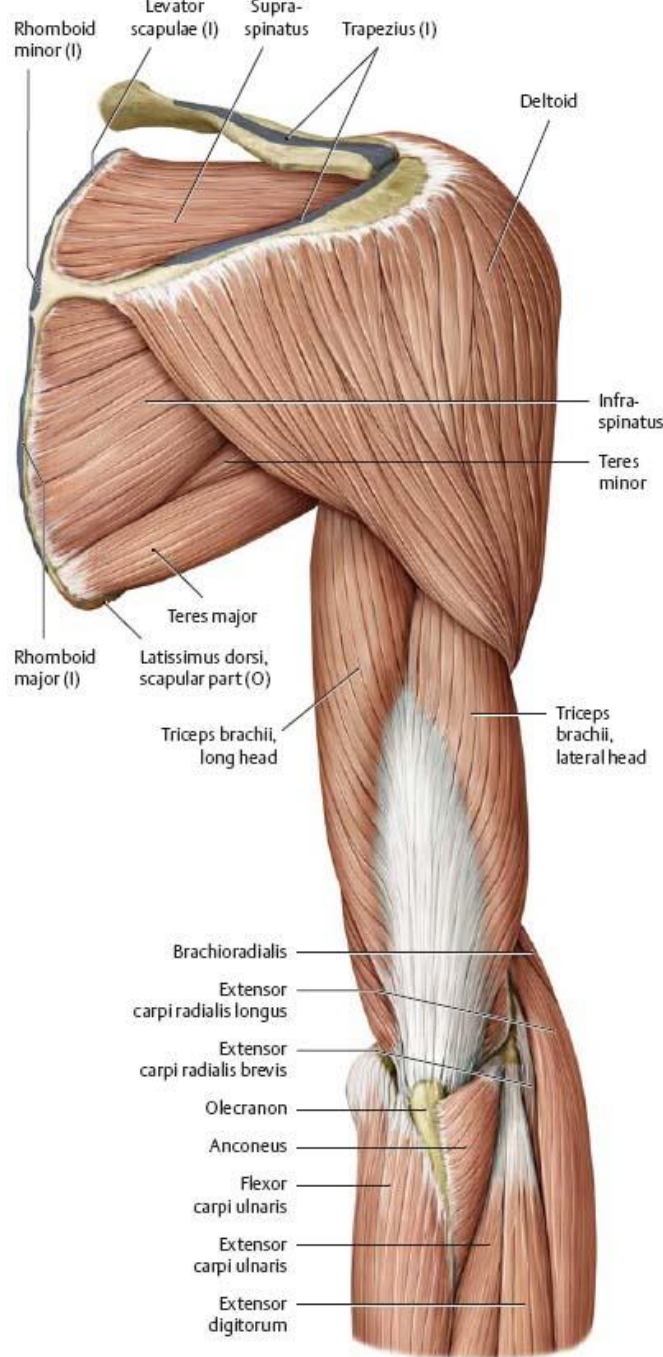
**B** Deep dissection. *Partially removed:* Trapezius and latissimus dorsi.



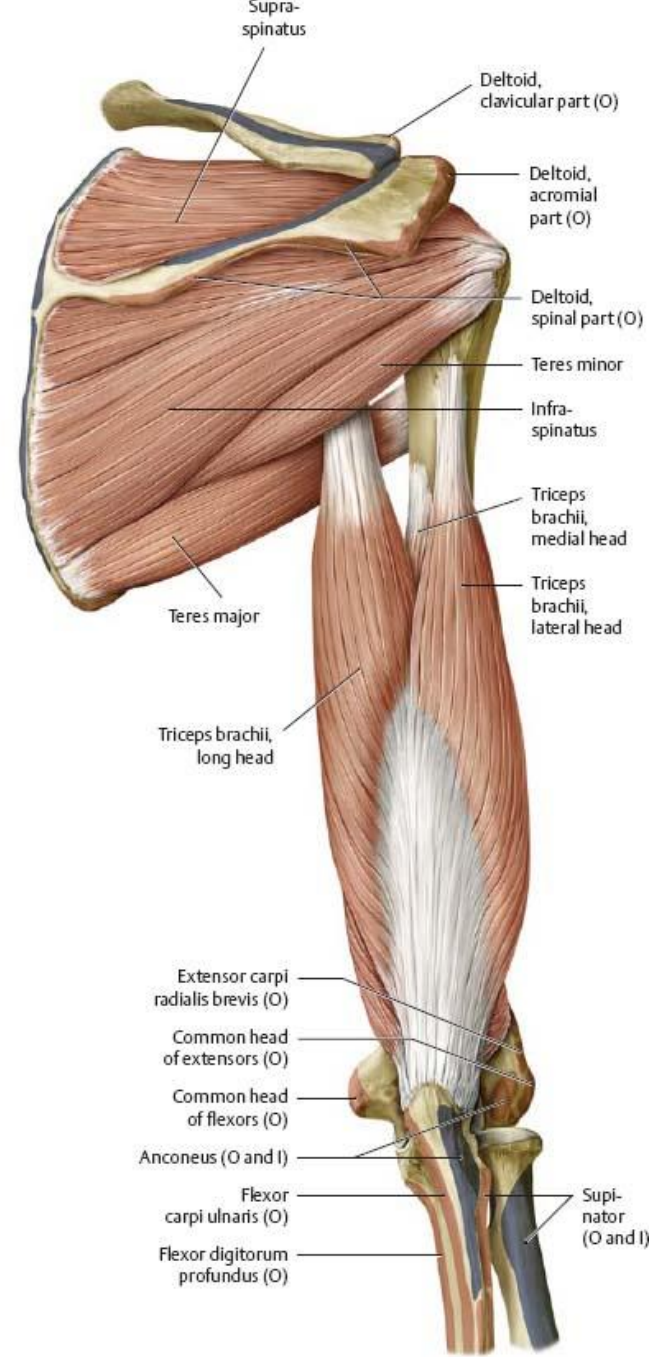




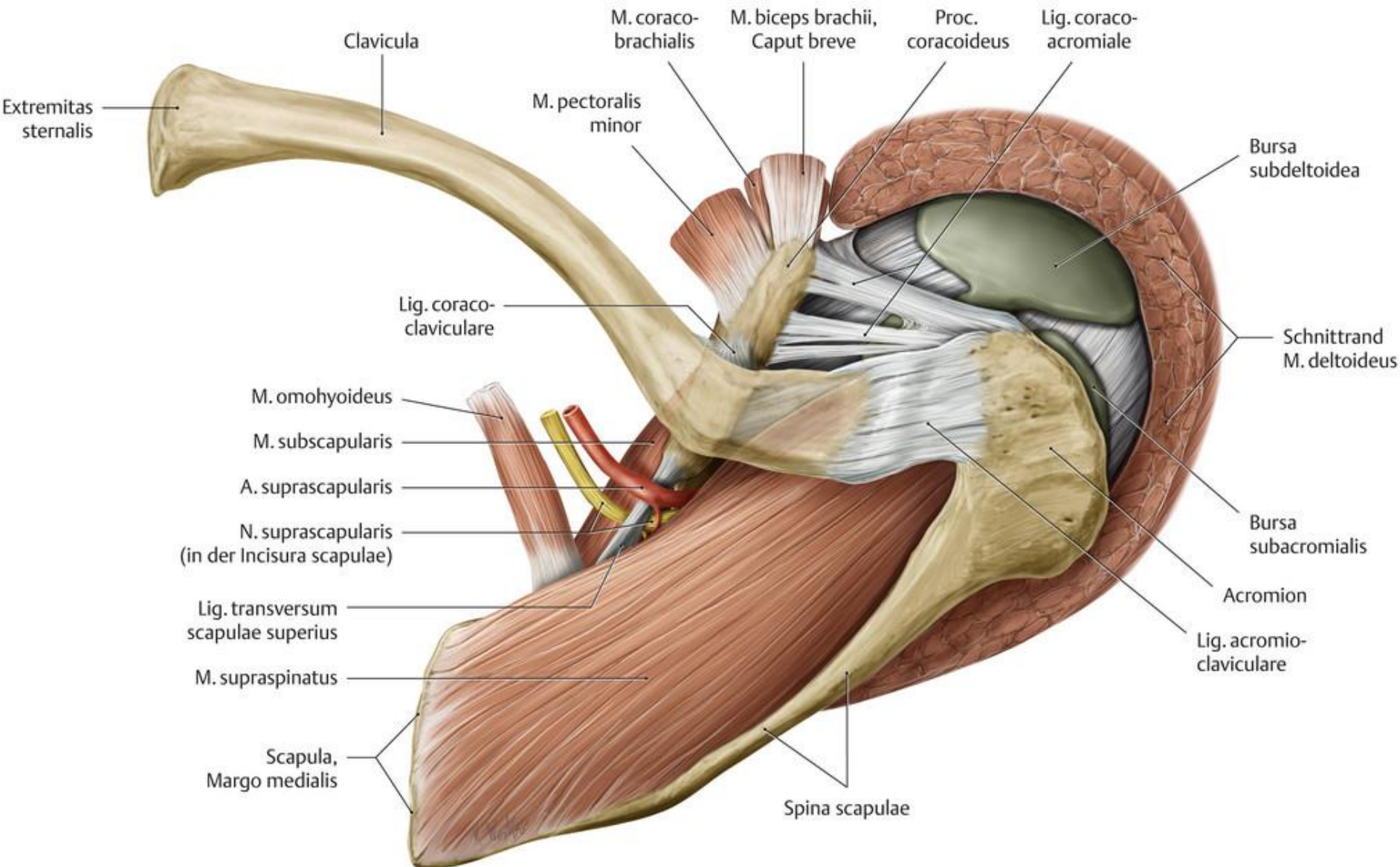


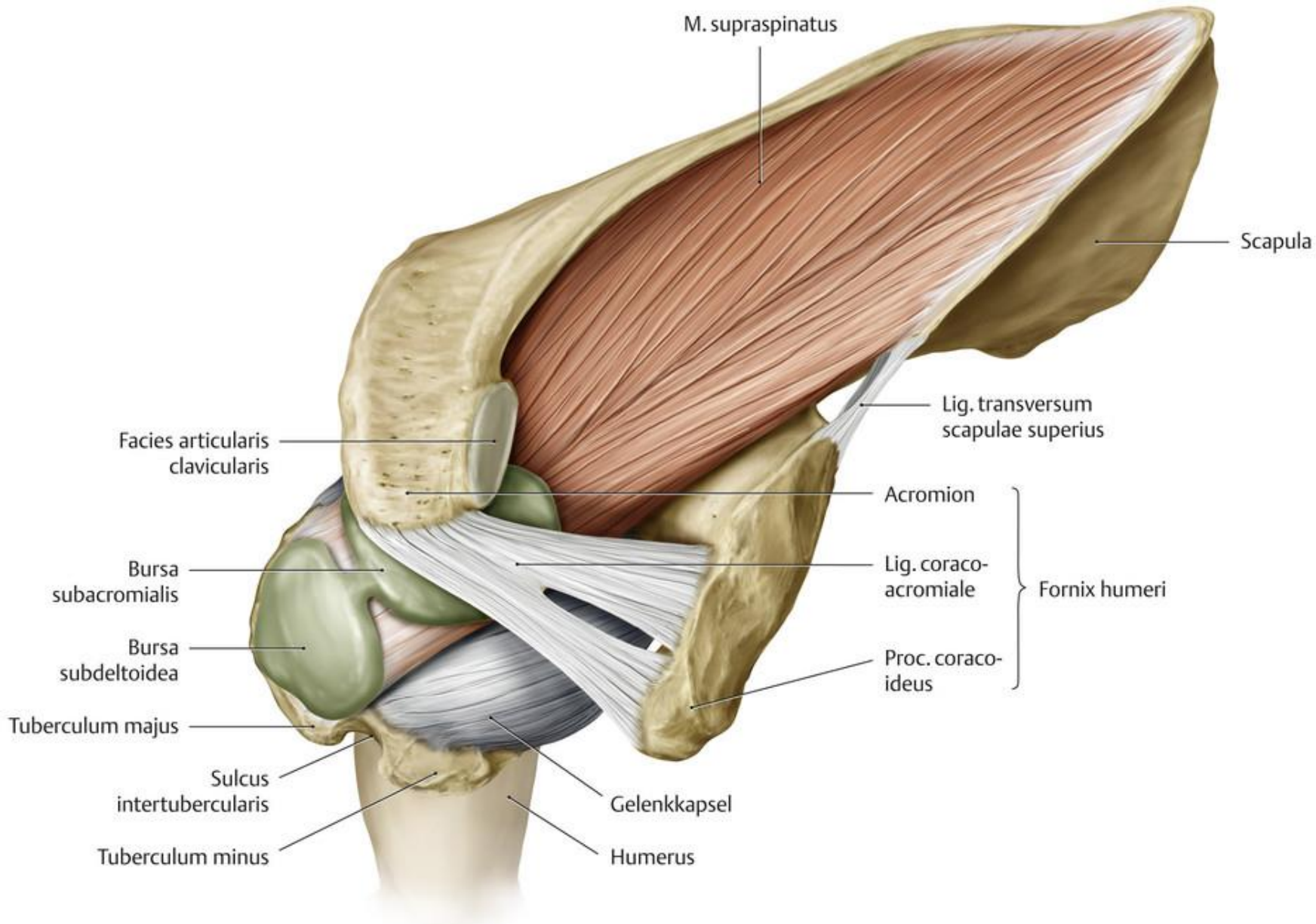


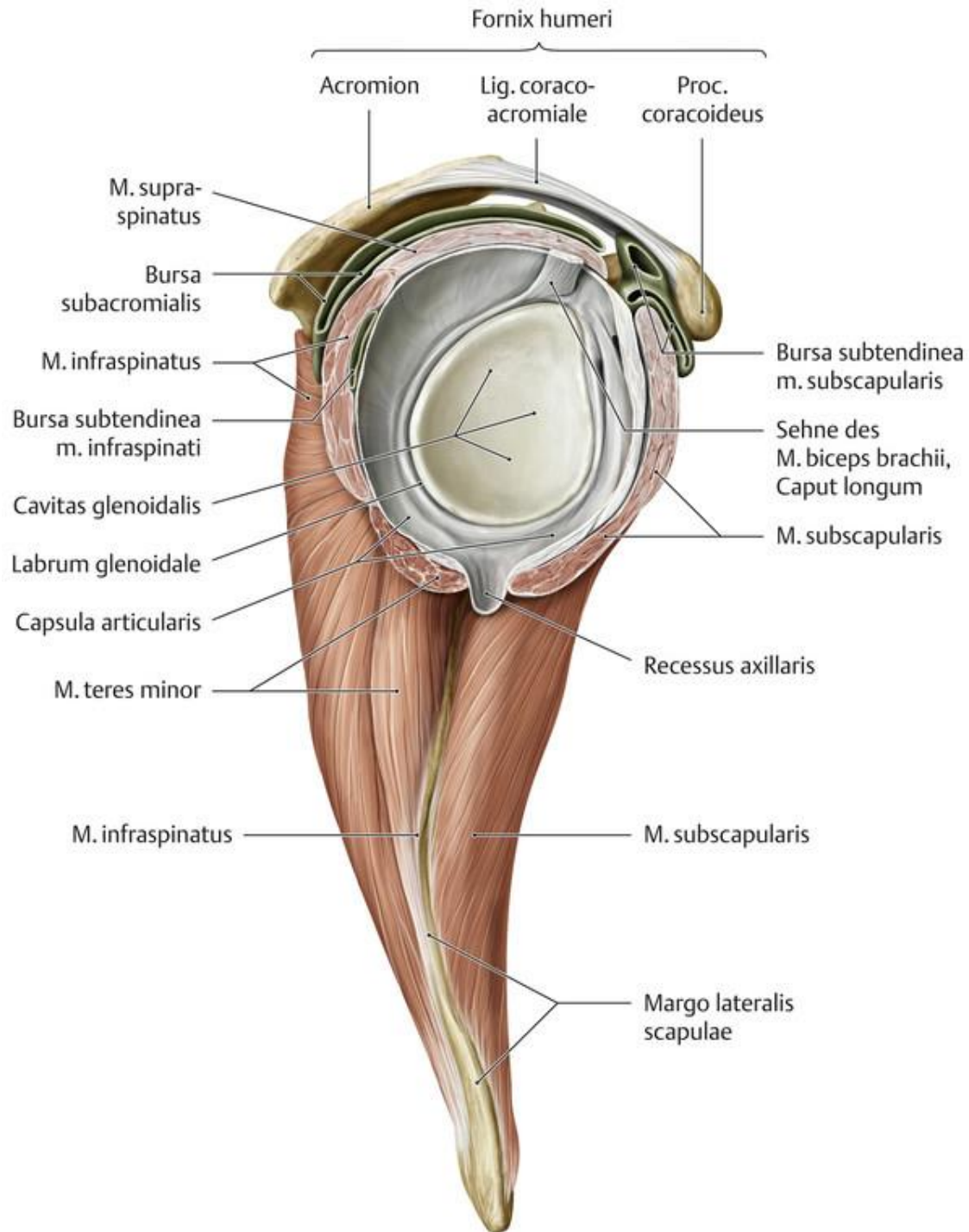
**A** Removed: Rhomboids major and minor, serratus anterior, and levator scapulae.

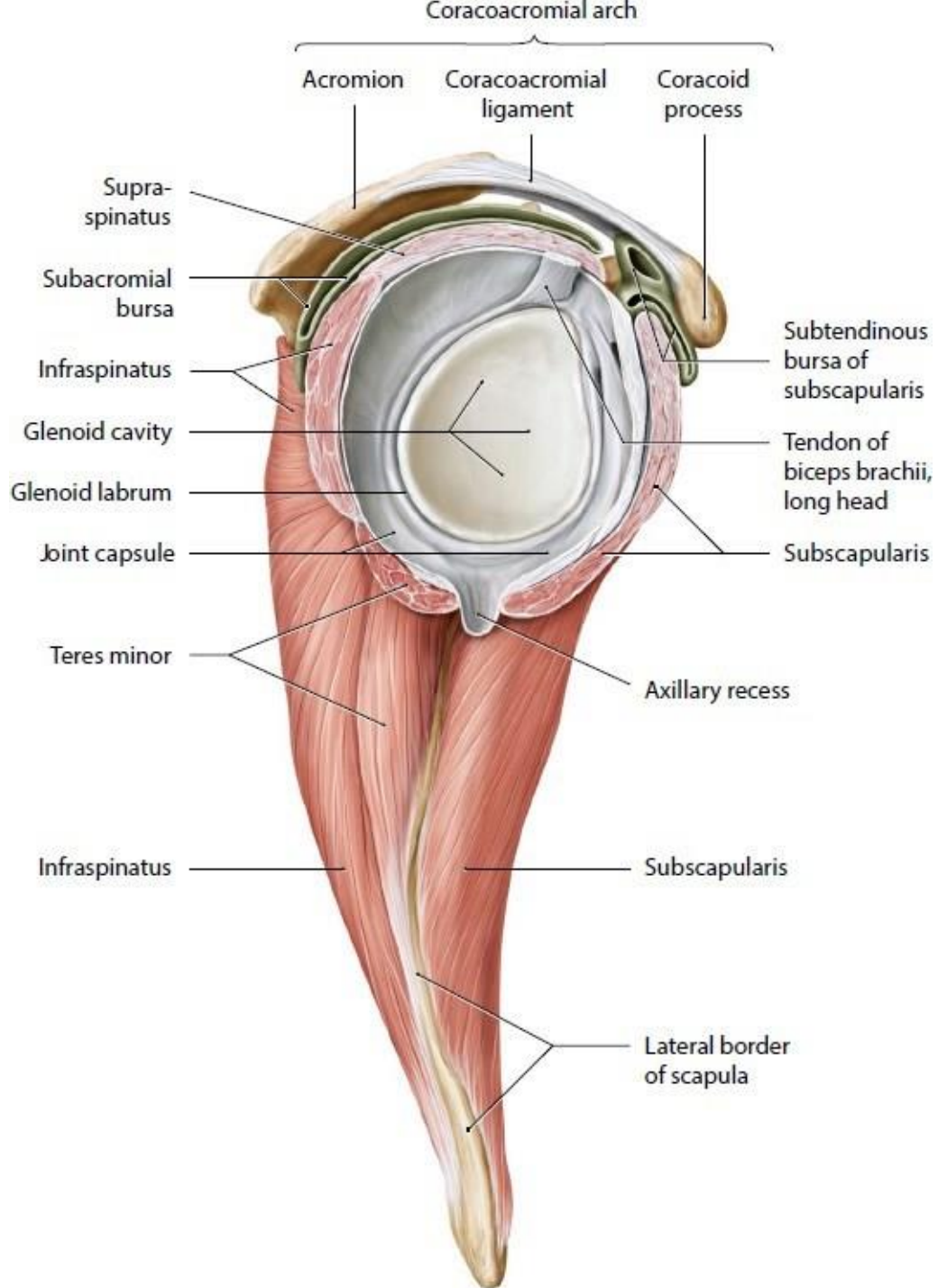


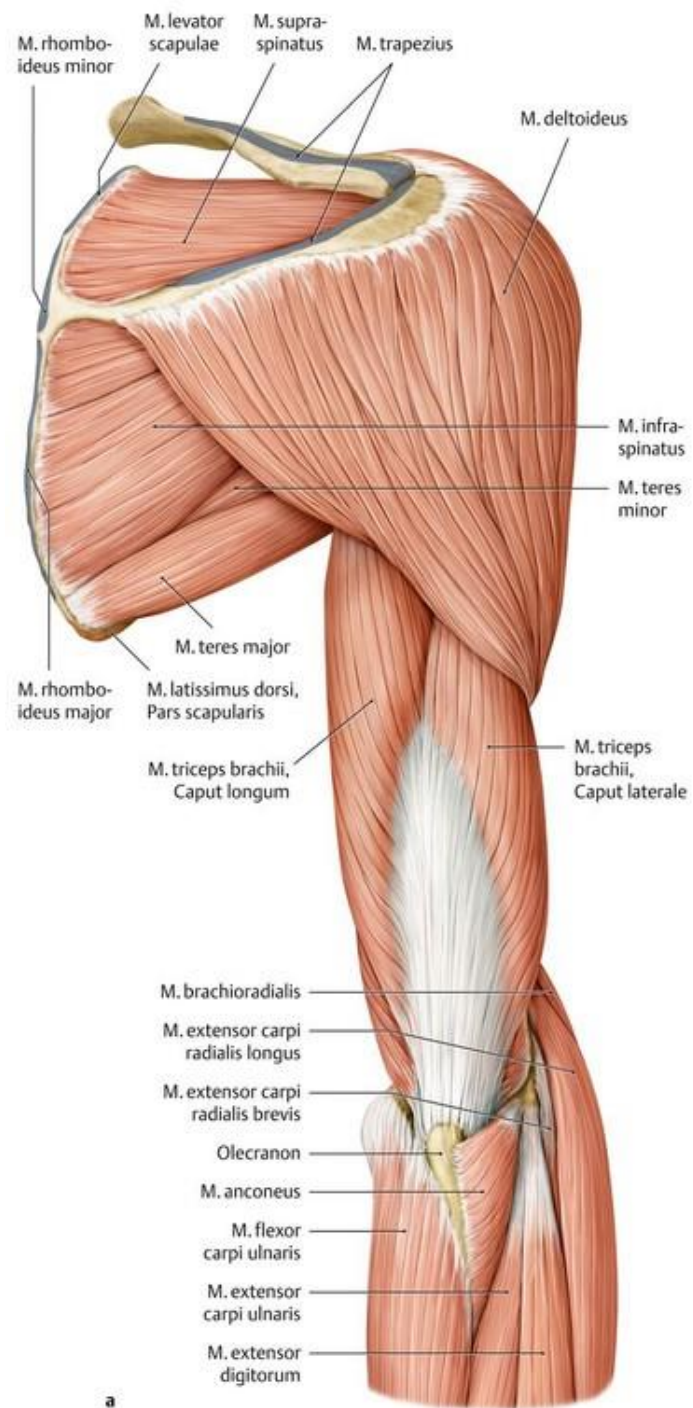
**B** Removed: Deltoid and forearm muscles.



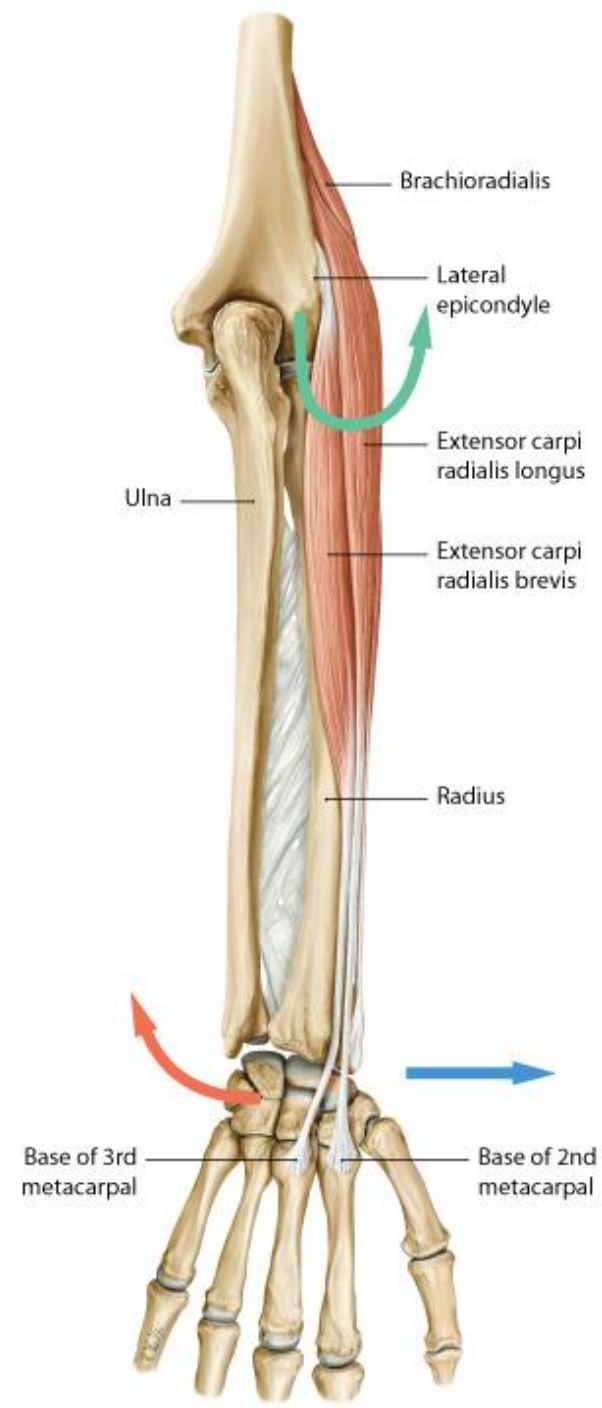
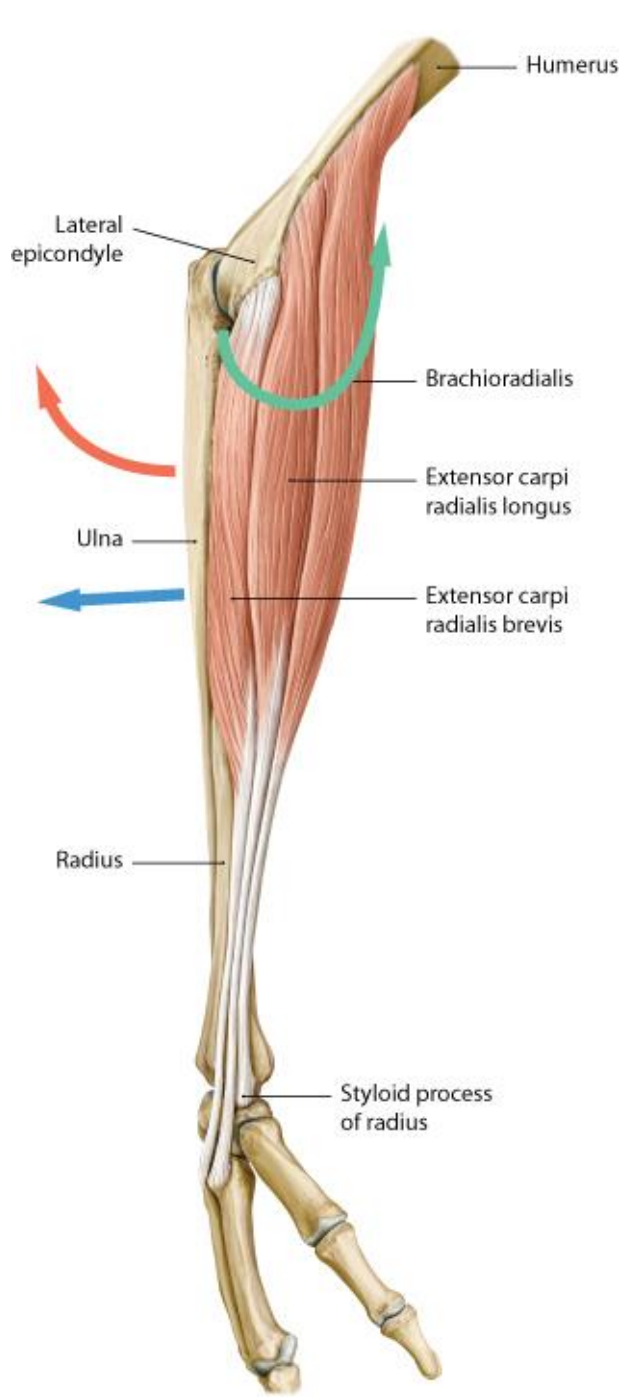
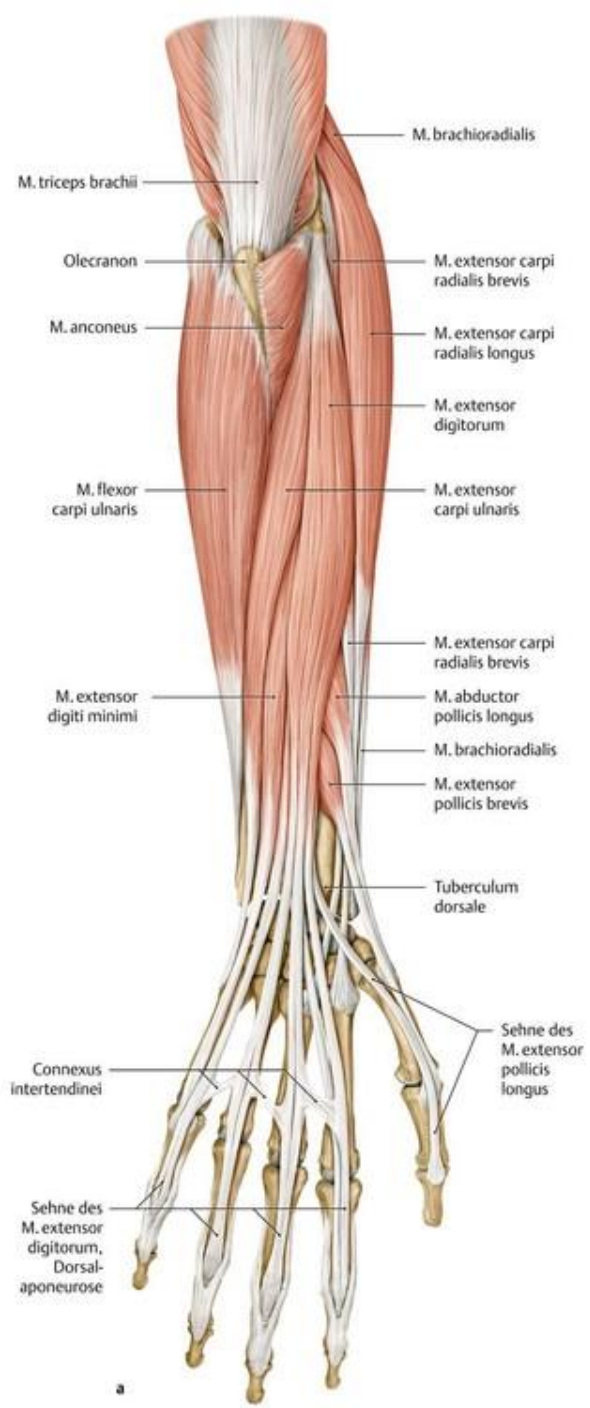


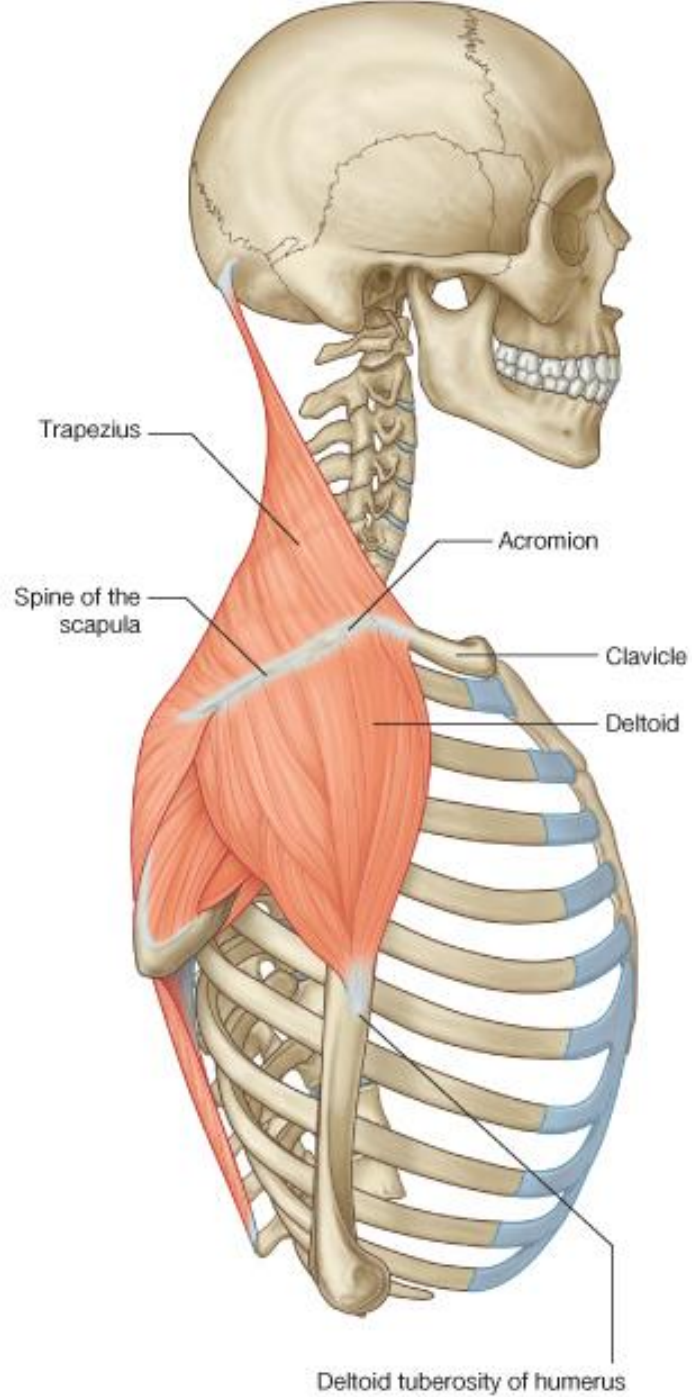


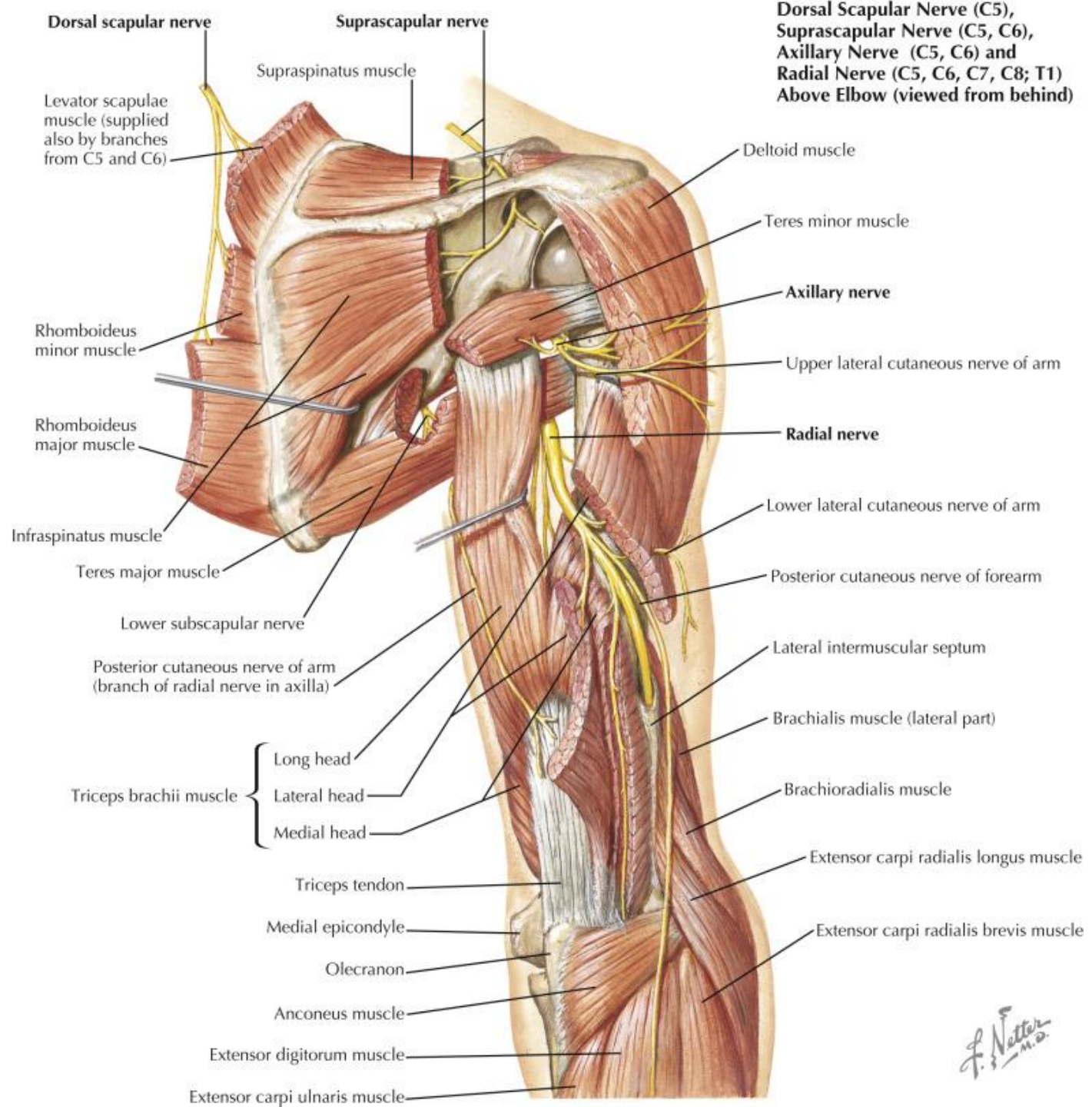












**Dorsal Scapular Nerve (C5),  
Suprascapular Nerve (C5, C6),  
Axillary Nerve (C5, C6) and  
Radial Nerve (C5, C6, C7, C8; T1)  
Above Elbow (viewed from behind)**

Dorsal scapular nerve  
Levator scapulae muscle (supplied also by branches from C5 and C6)

Suprascapular nerve  
Supraspinatus muscle

Rhomboideus minor muscle  
Rhomboideus major muscle

Infraspinatus muscle  
Teres major muscle

Lower subscapular nerve  
Posterior cutaneous nerve of arm (branch of radial nerve in axilla)

Triceps brachii muscle {  
Long head  
Lateral head  
Medial head

Triceps tendon  
Medial epicondyle  
Olecranon  
Anconeus muscle

Extensor digitorum muscle  
Extensor carpi ulnaris muscle

Deltoid muscle

Teres minor muscle

Axillary nerve

Upper lateral cutaneous nerve of arm

Radial nerve

Lower lateral cutaneous nerve of arm

Posterior cutaneous nerve of forearm

Lateral intermuscular septum

Brachialis muscle (lateral part)

Brachioradialis muscle

Extensor carpi radialis longus muscle

Extensor carpi radialis brevis muscle

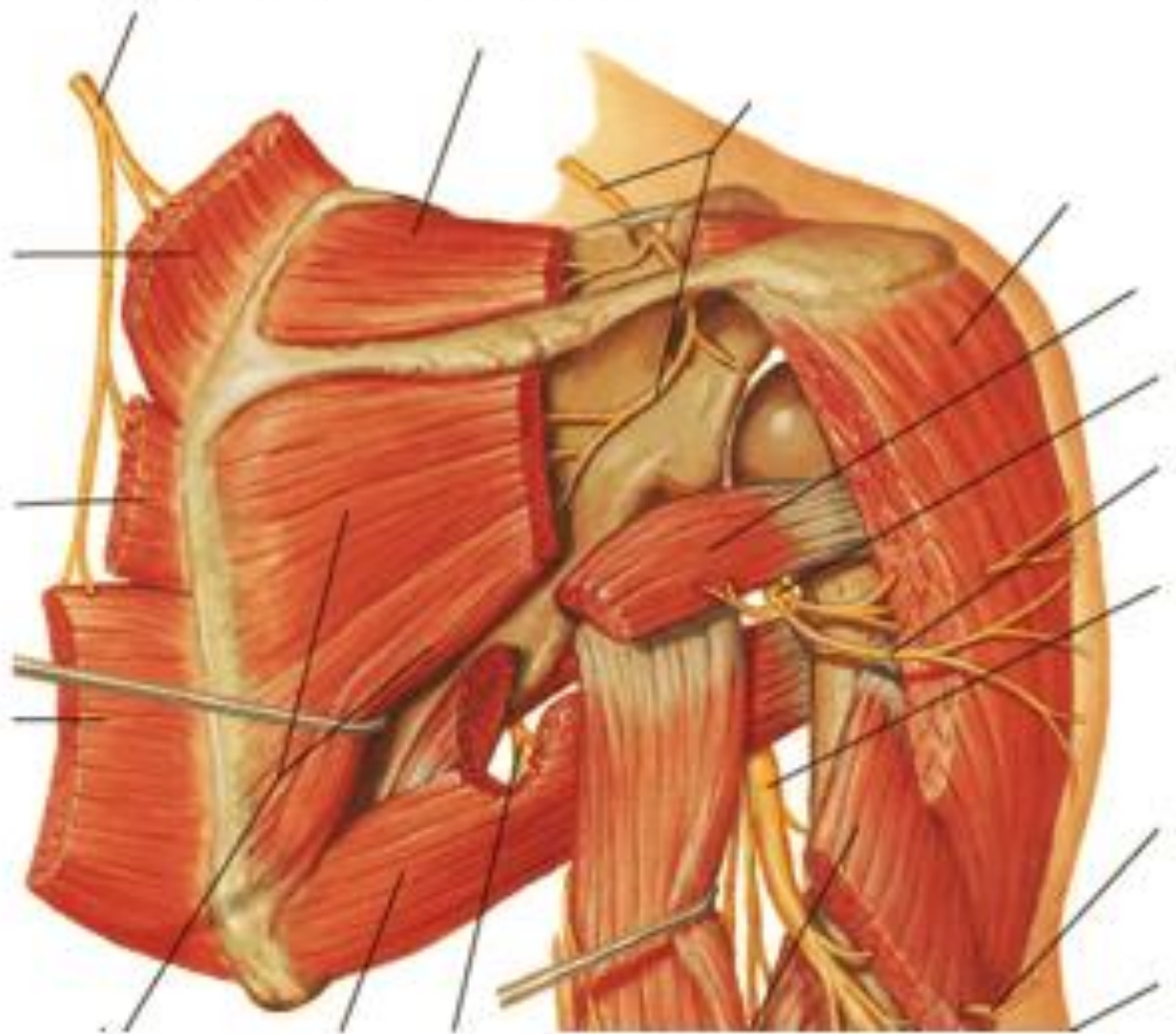
*F. Netter M.D.*

Dorsal Scapular nerve

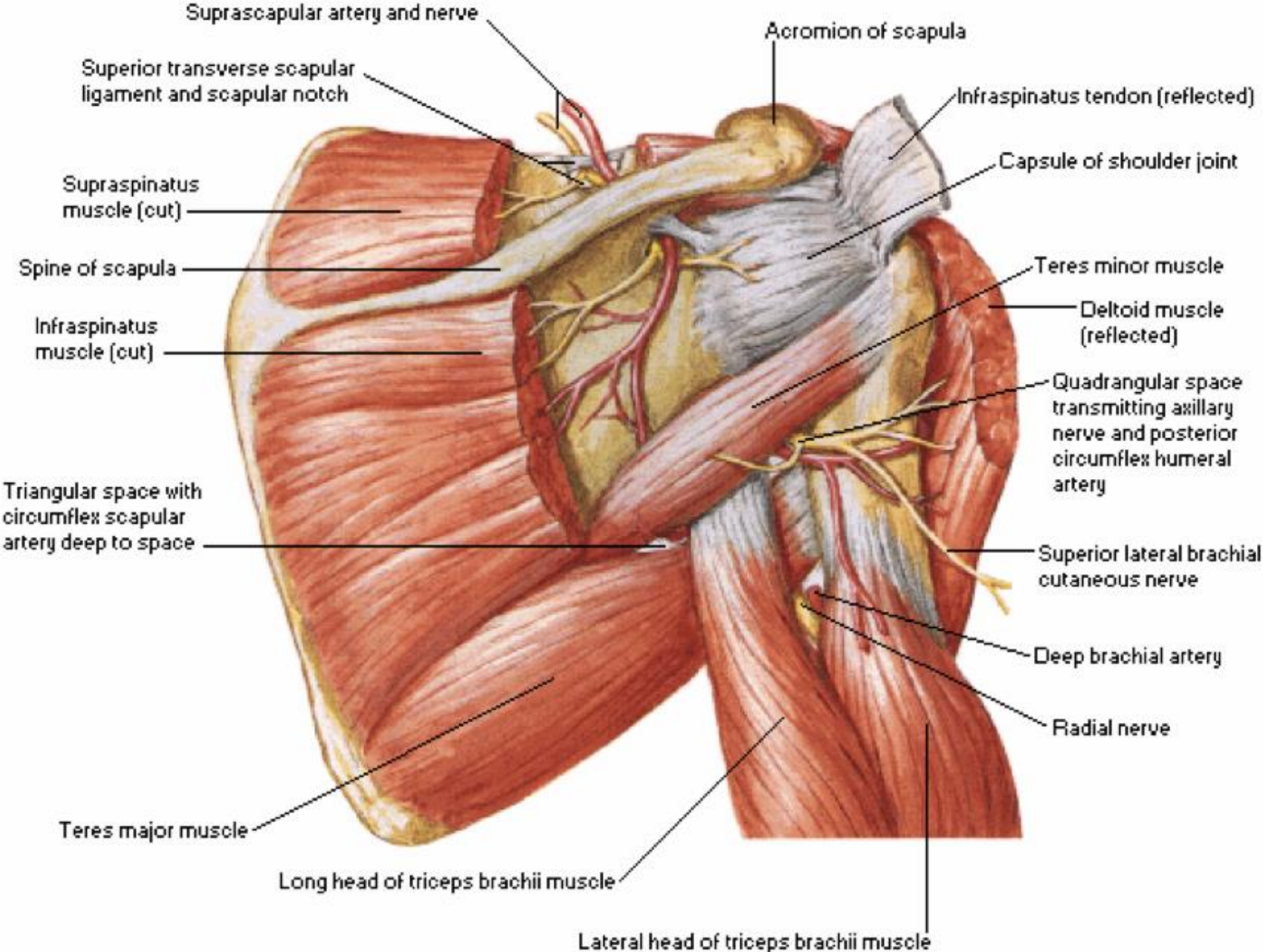
Levator scapulae  
muscle

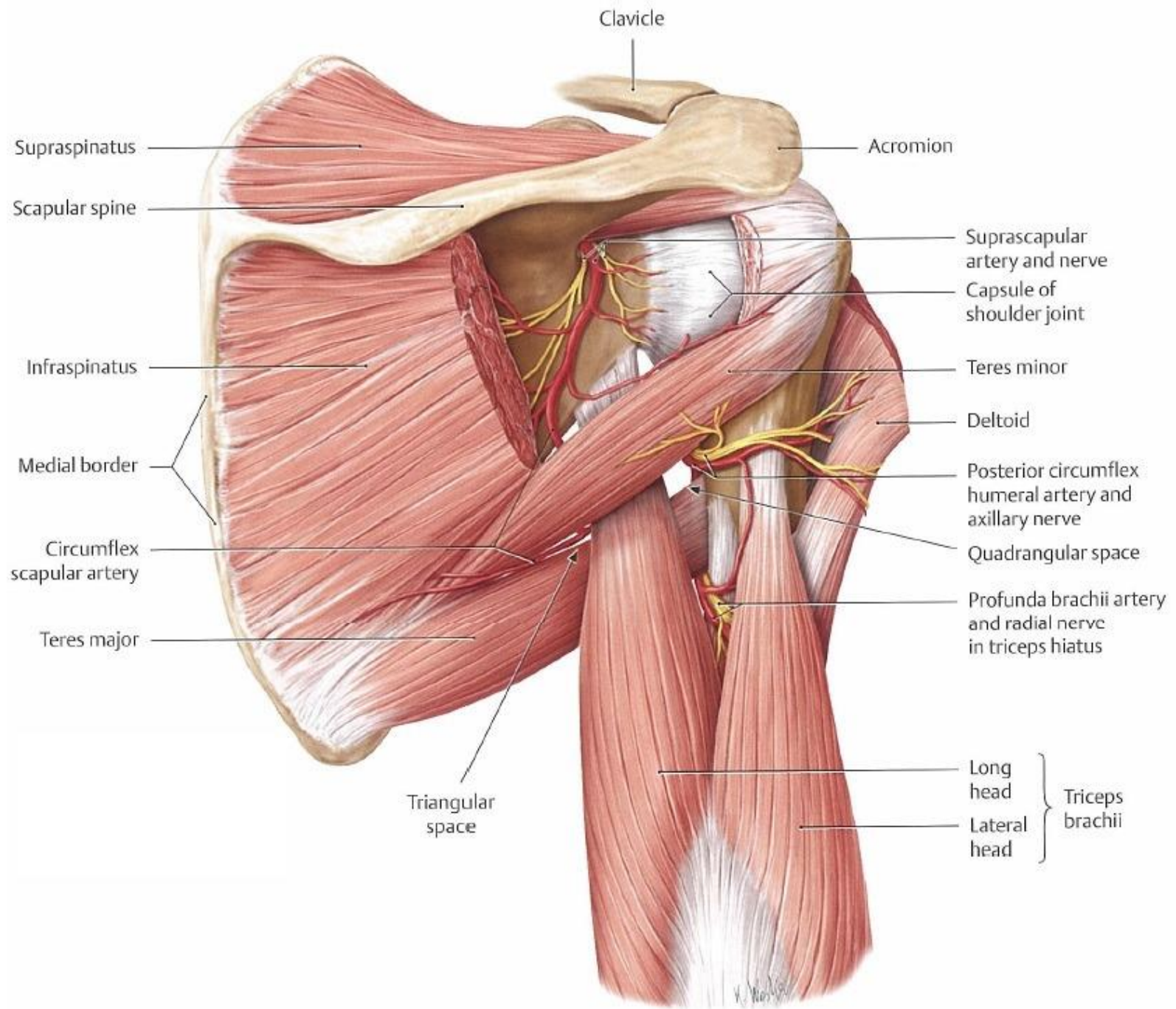
Rhomboid minor  
muscle

Rhomboid major  
muscle



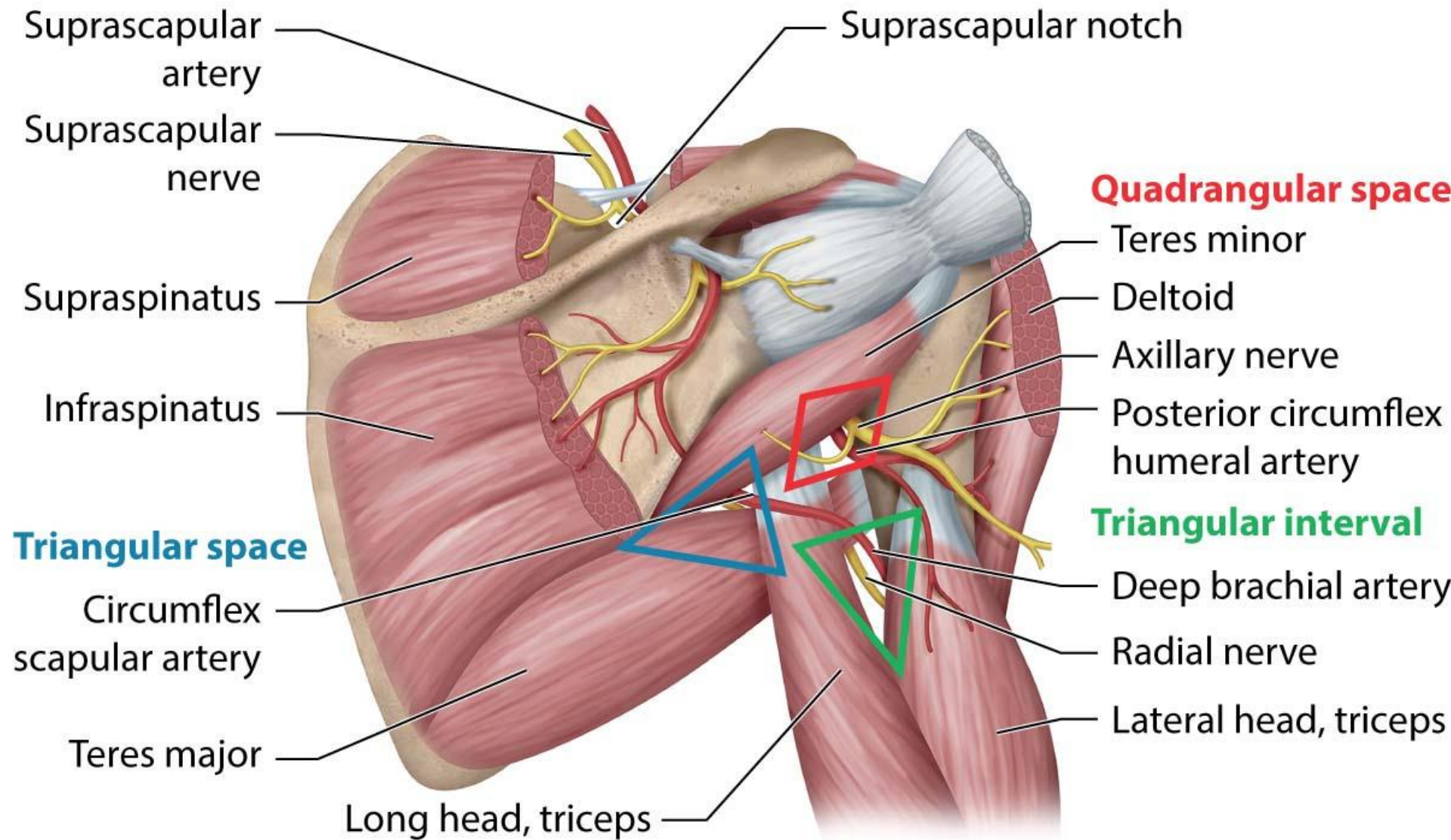
# Posterior View

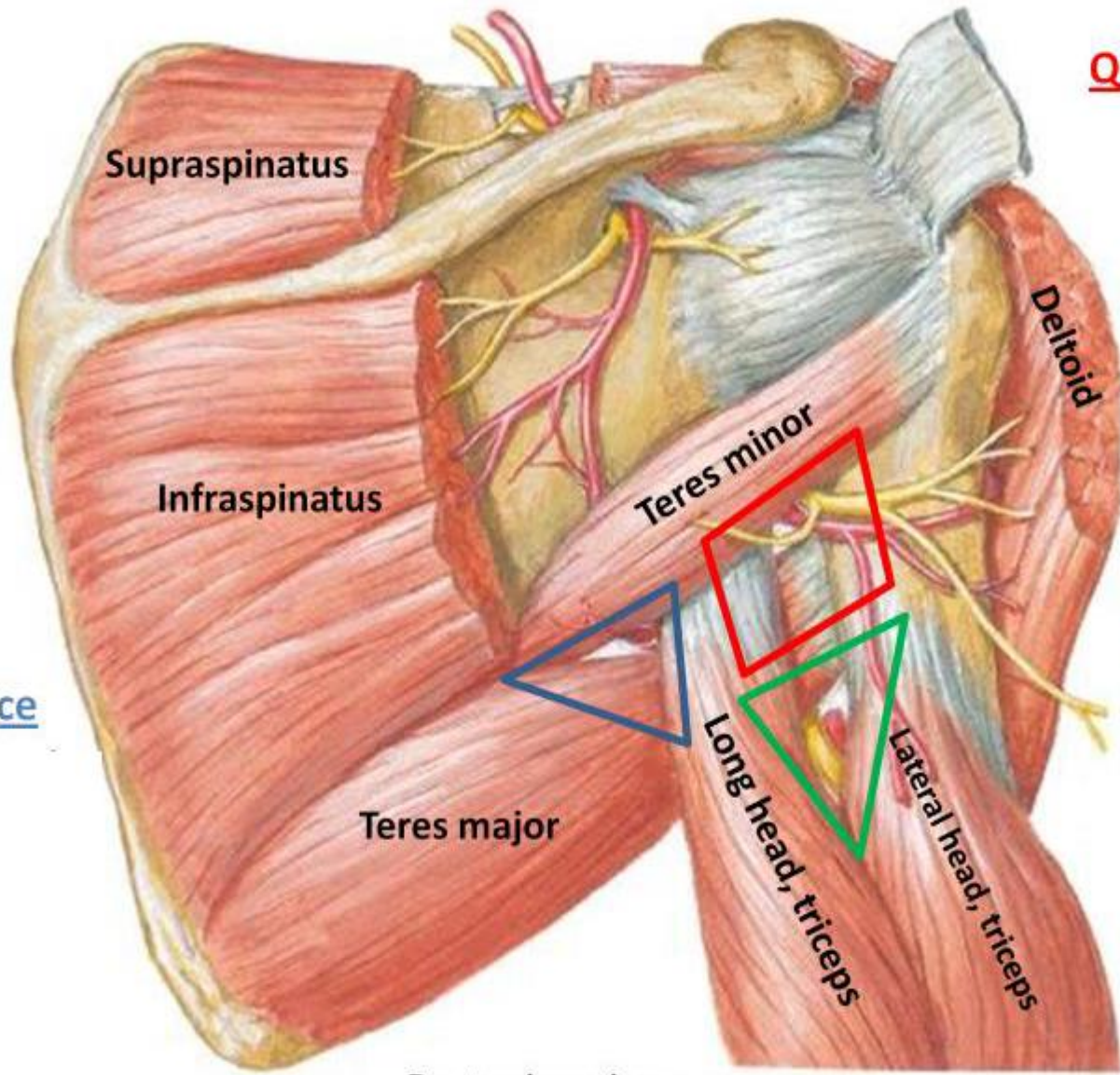




**A The triangular and quadrangular spaces of the axilla**

# Posterior View





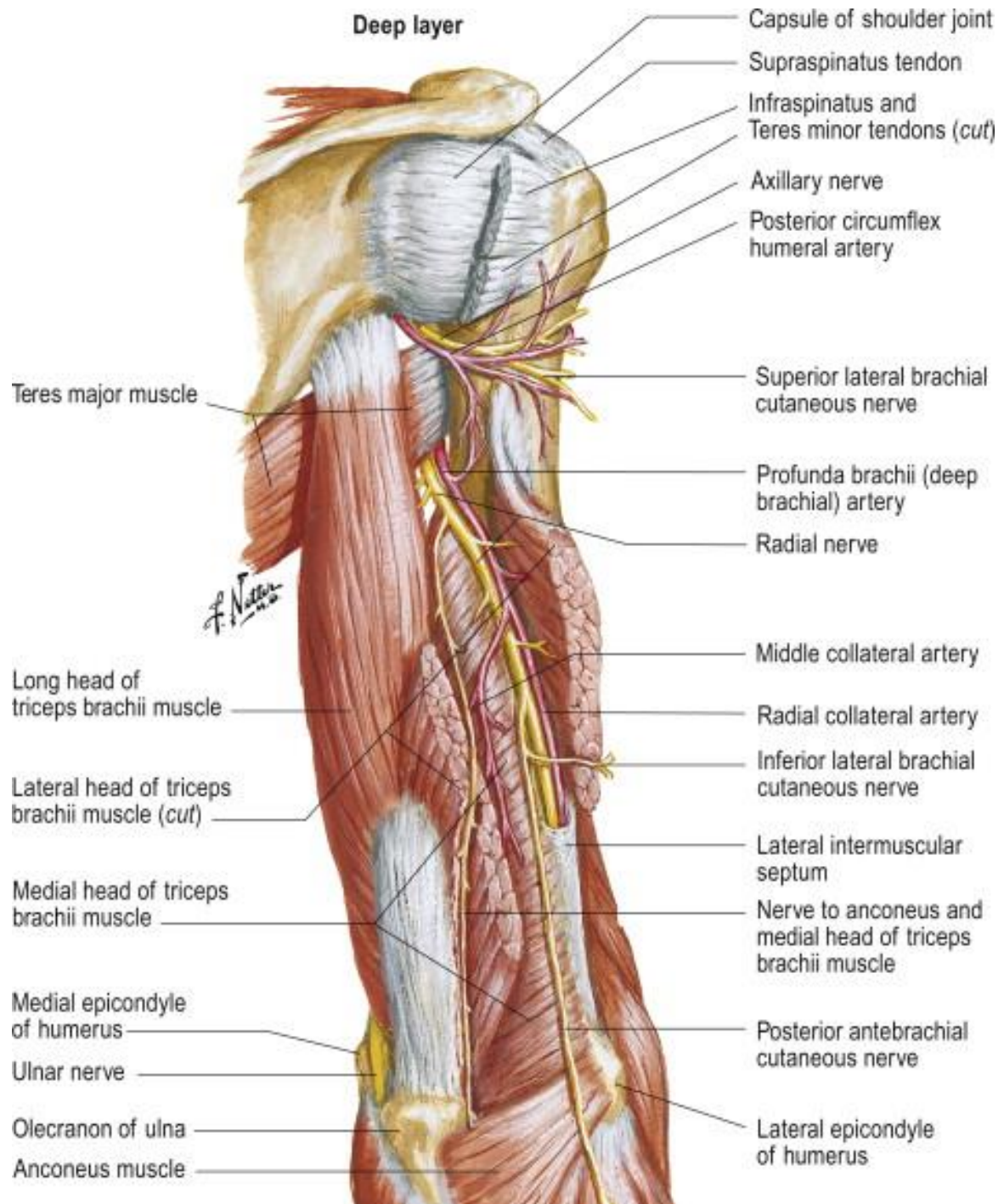
Quadrangular Space

Triangular Interval

Triangular Space

Posterior view





**Deep layer**

- Capsule of shoulder joint
- Supraspinatus tendon
- Infraspinatus and Teres minor tendons (*cut*)
- Axillary nerve
- Posterior circumflex humeral artery

Teres major muscle

Superior lateral brachial cutaneous nerve

Profunda brachii (deep brachial) artery

Radial nerve

Long head of triceps brachii muscle

Middle collateral artery

Radial collateral artery

Lateral head of triceps brachii muscle (*cut*)

Inferior lateral brachial cutaneous nerve

Lateral intermuscular septum

Medial head of triceps brachii muscle

Nerve to anconeus and medial head of triceps brachii muscle

Medial epicondyle of humerus

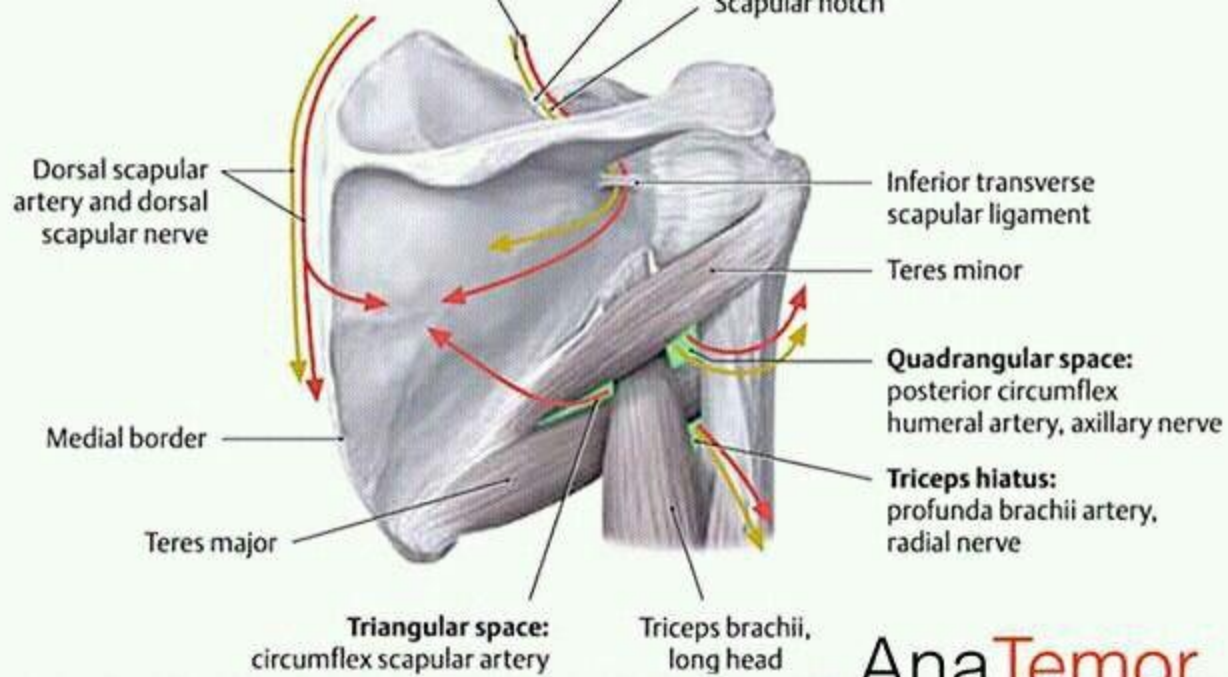
Posterior antebraichial cutaneous nerve

Ulnar nerve

Lateral epicondyle of humerus

Olecranon of ulna

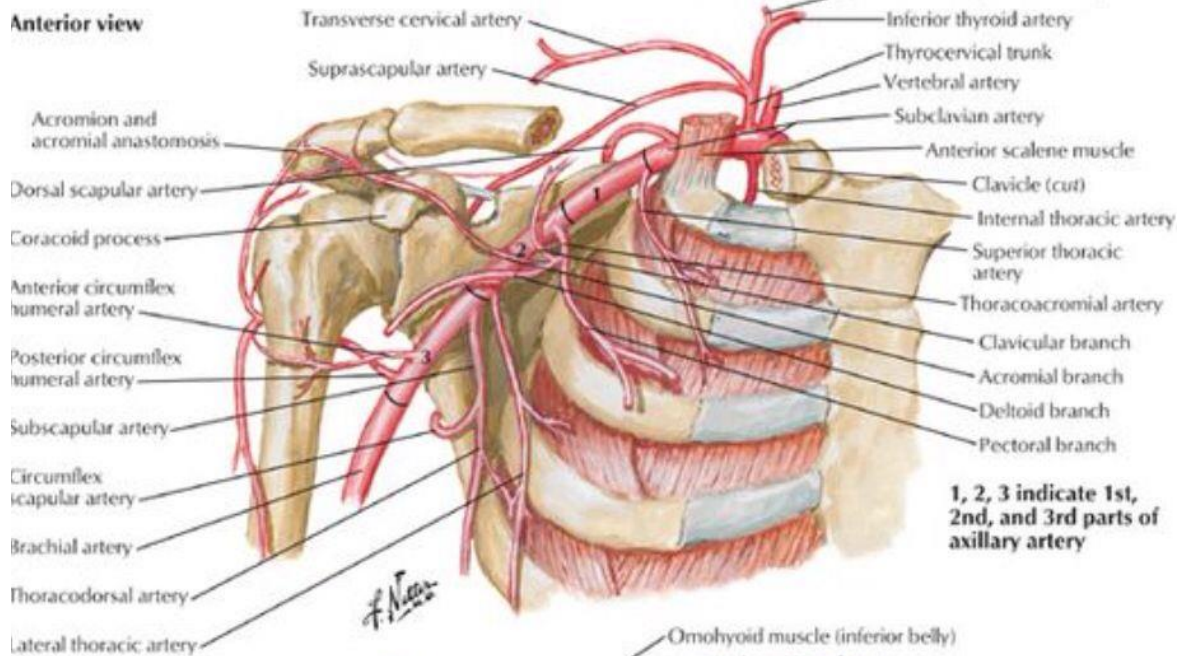
Anconeus muscle



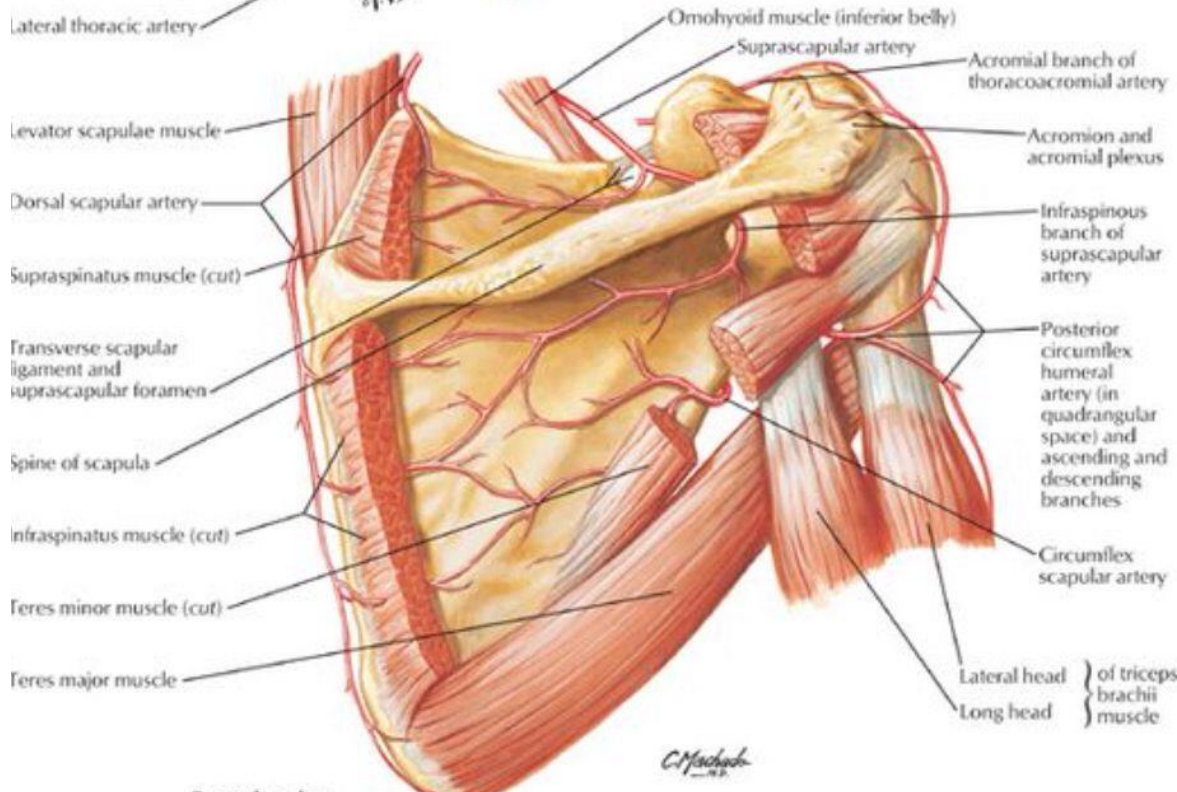
AnaTemor



**Anterior view**

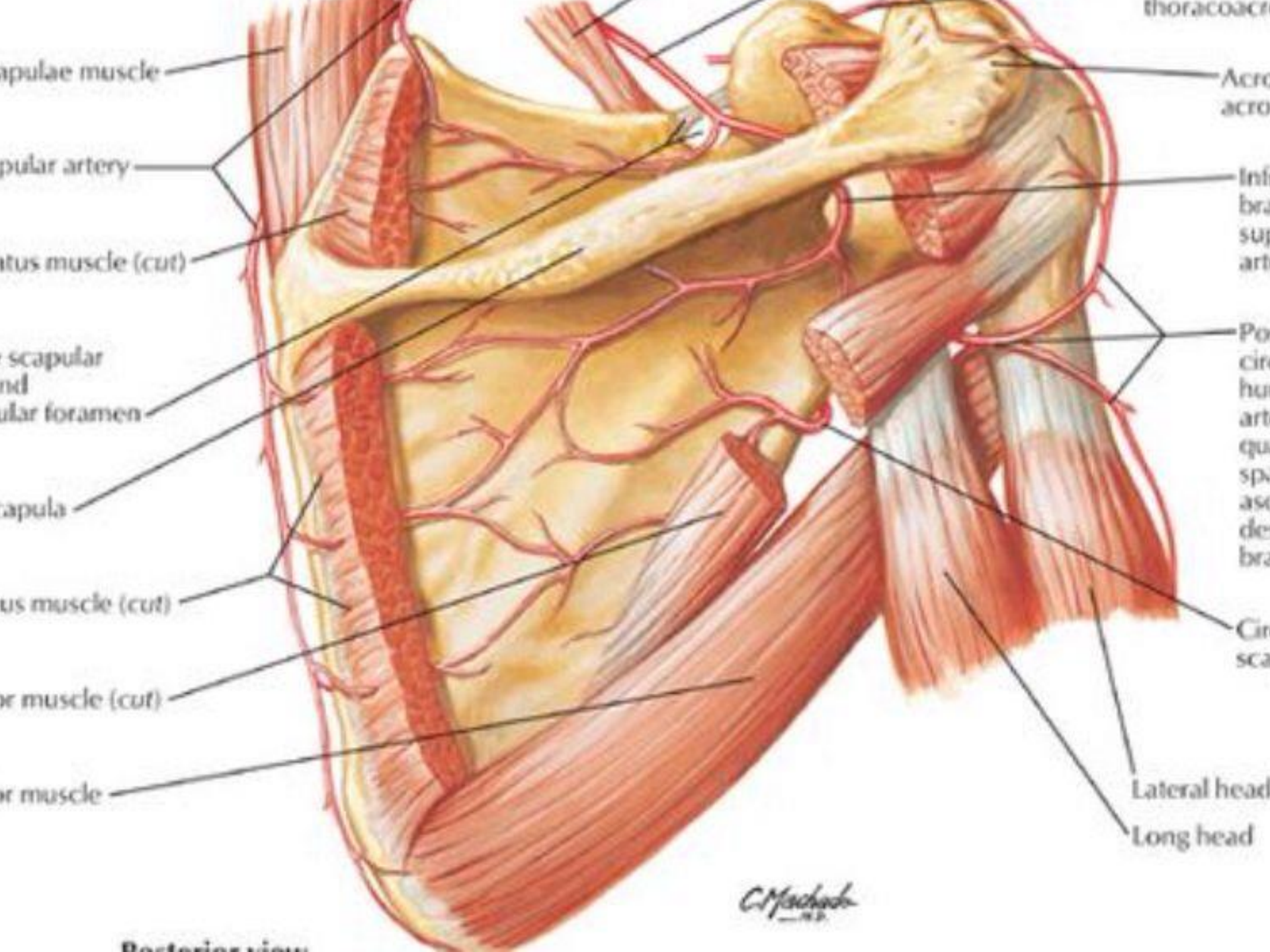


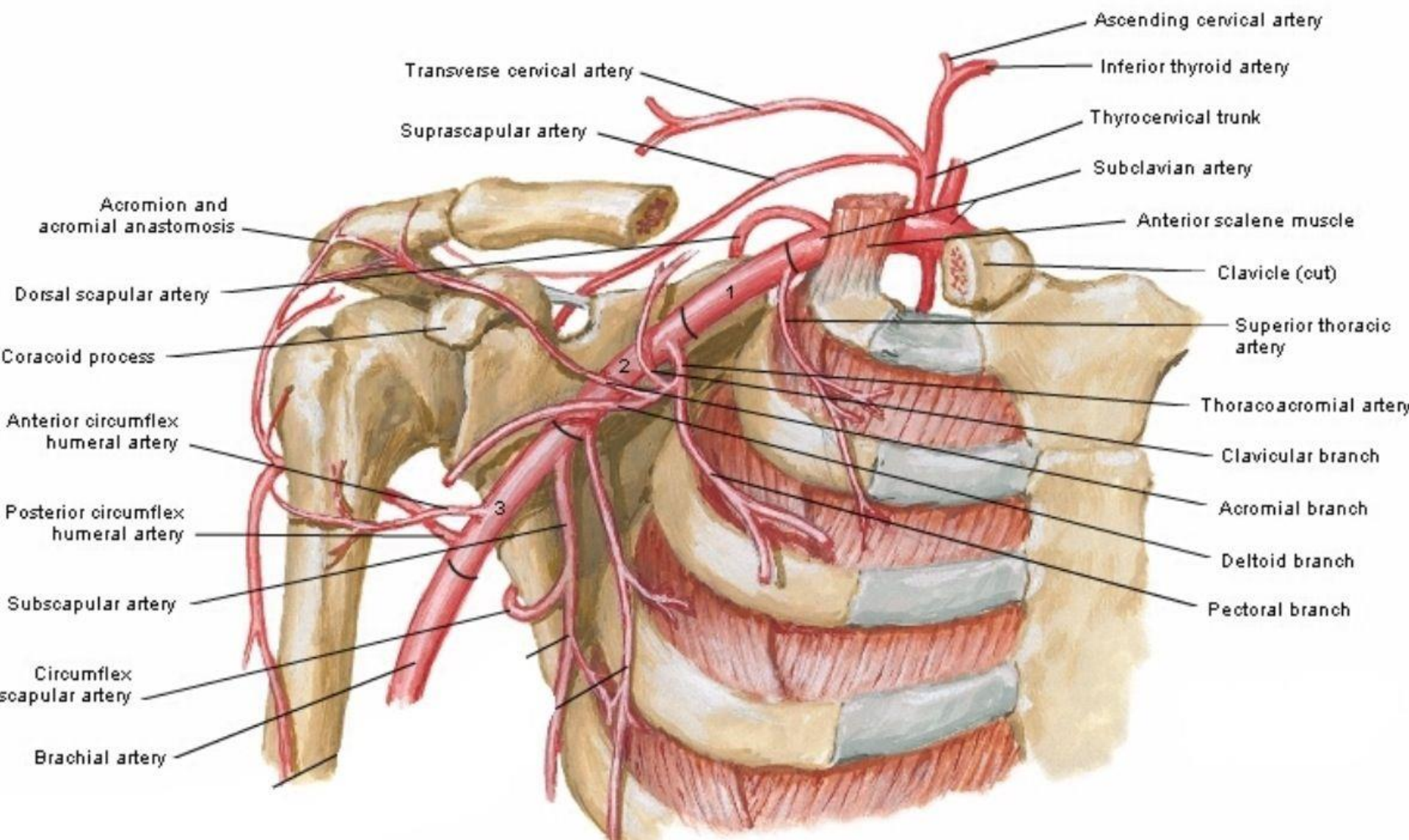
**1, 2, 3 indicate 1st, 2nd, and 3rd parts of axillary artery**

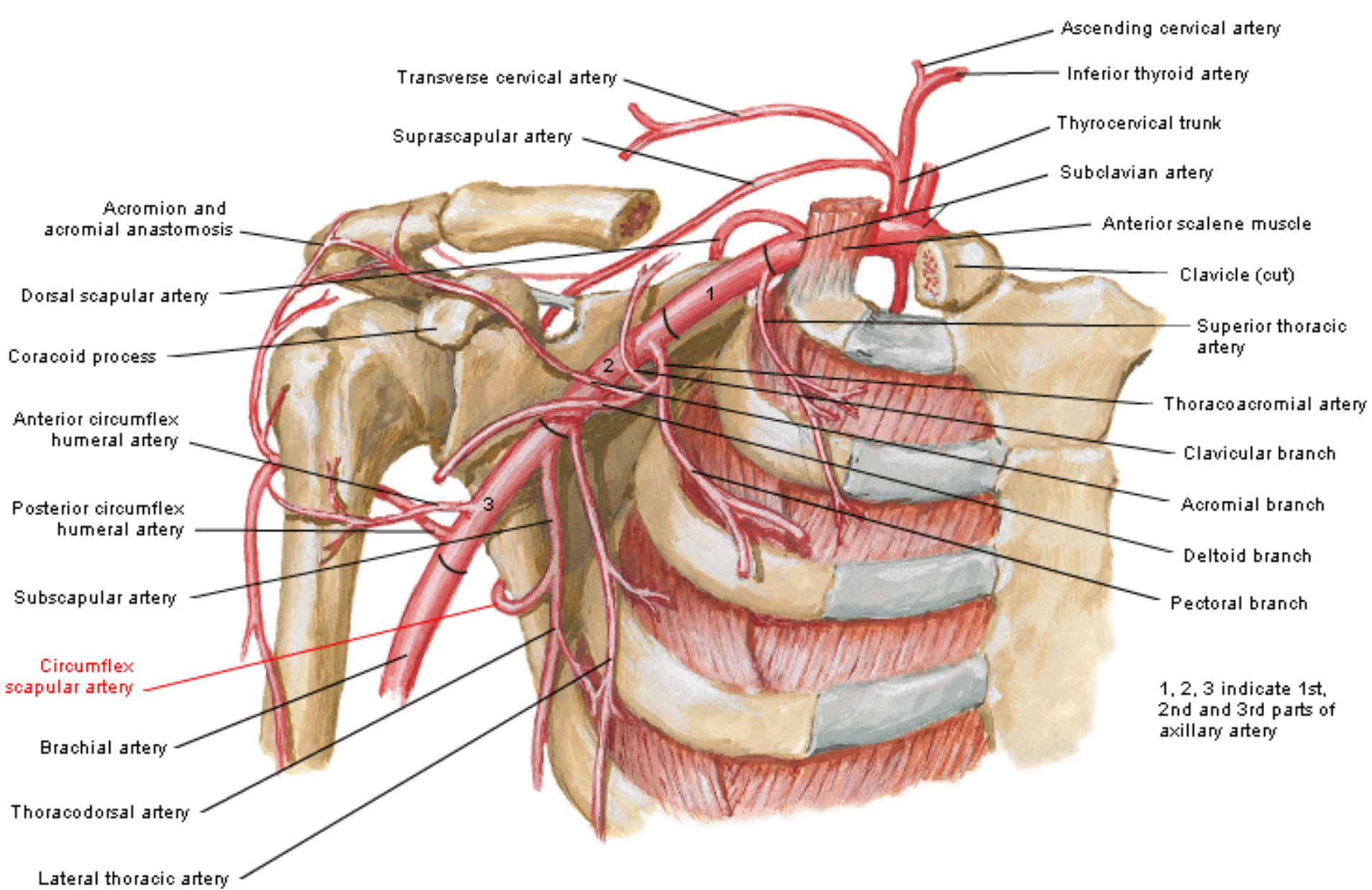


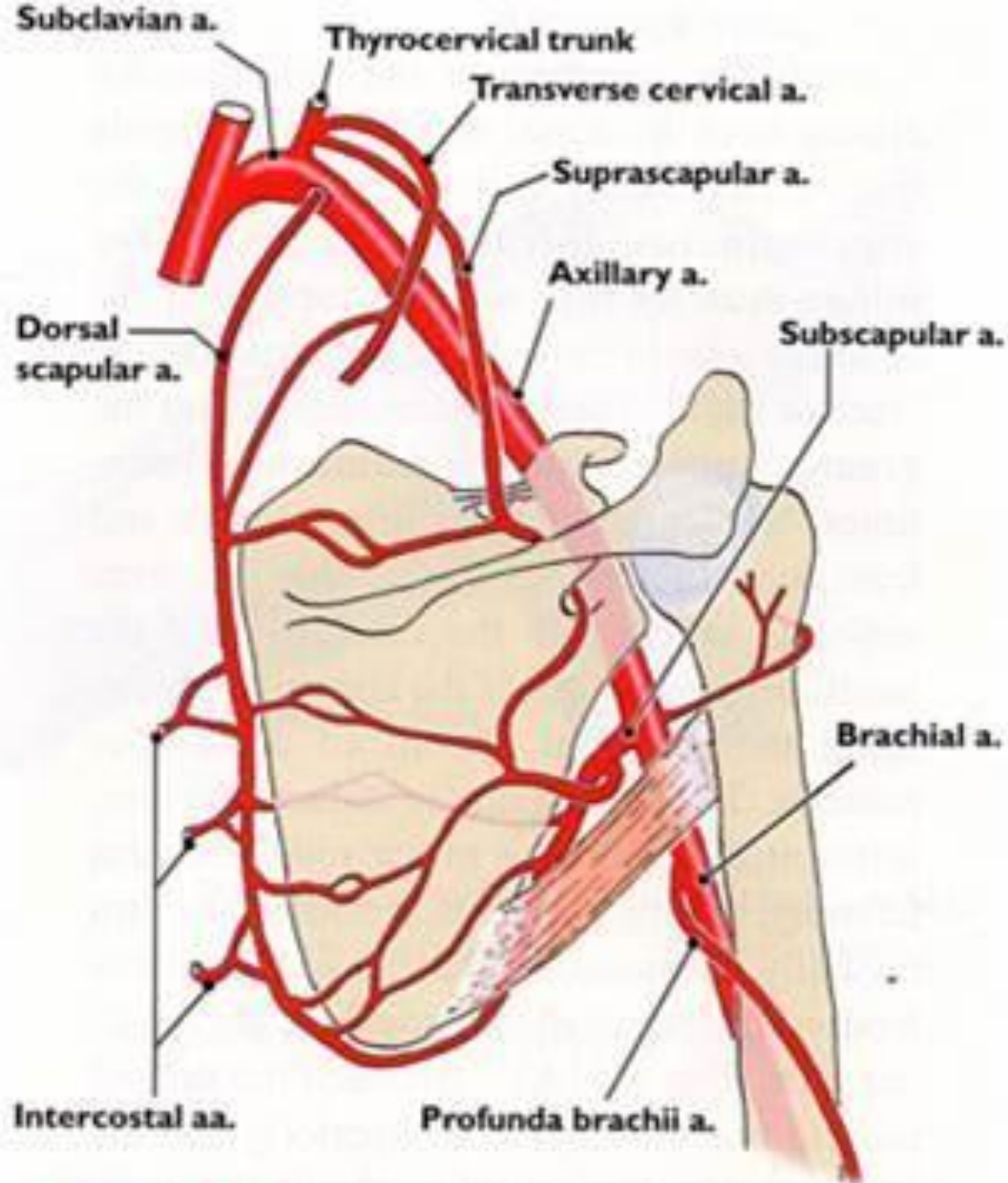
**Posterior view**

*C. Machado*

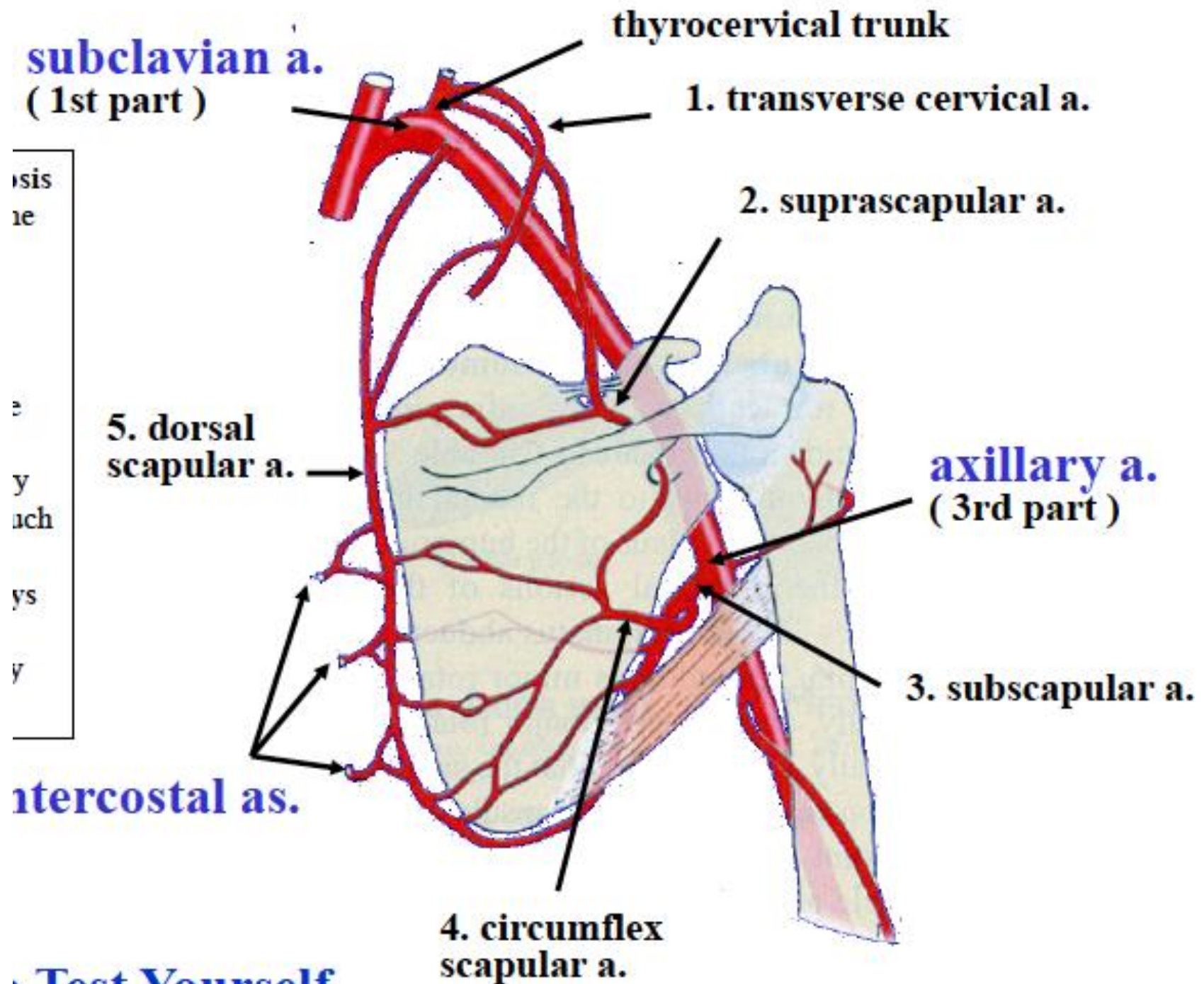






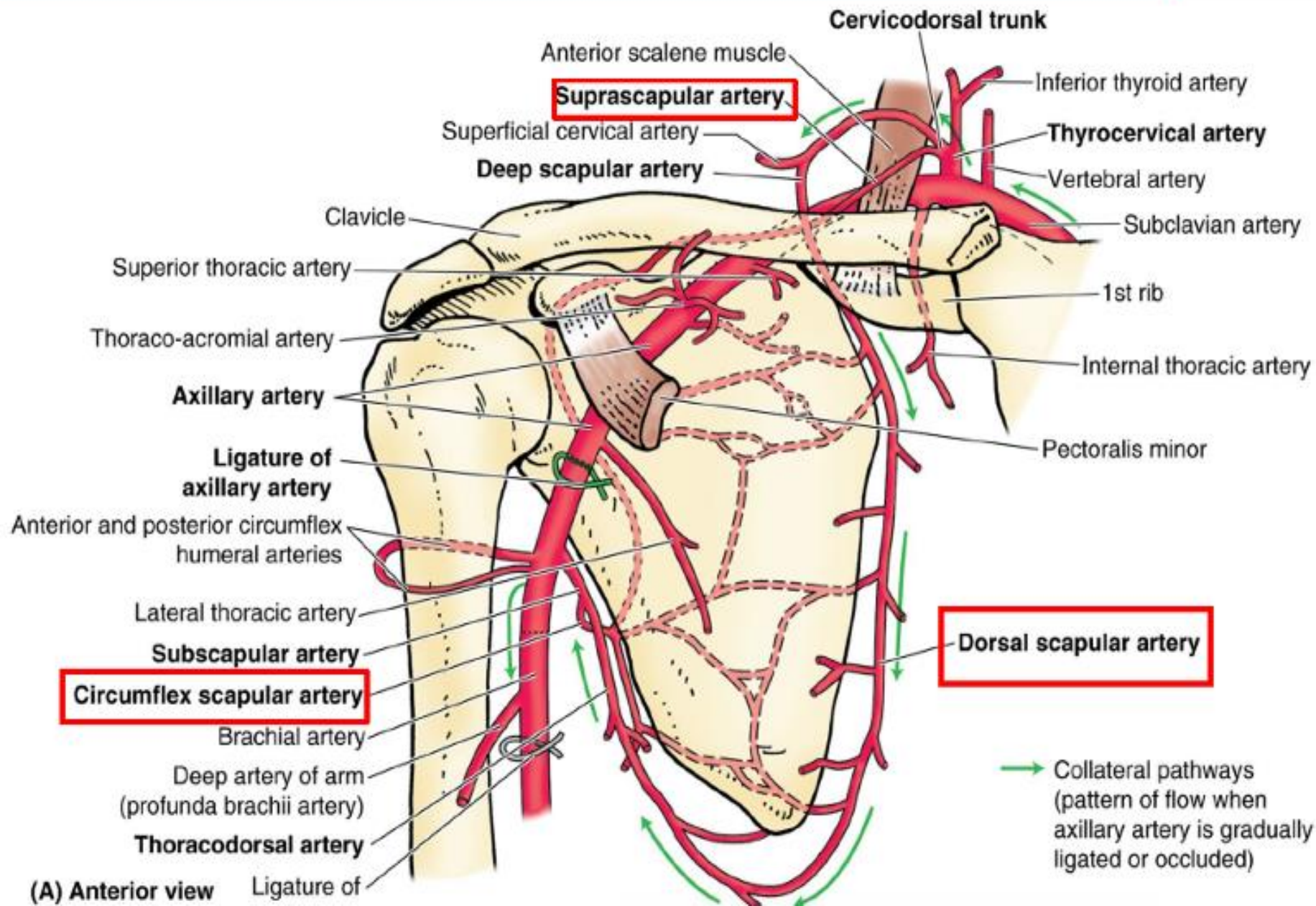


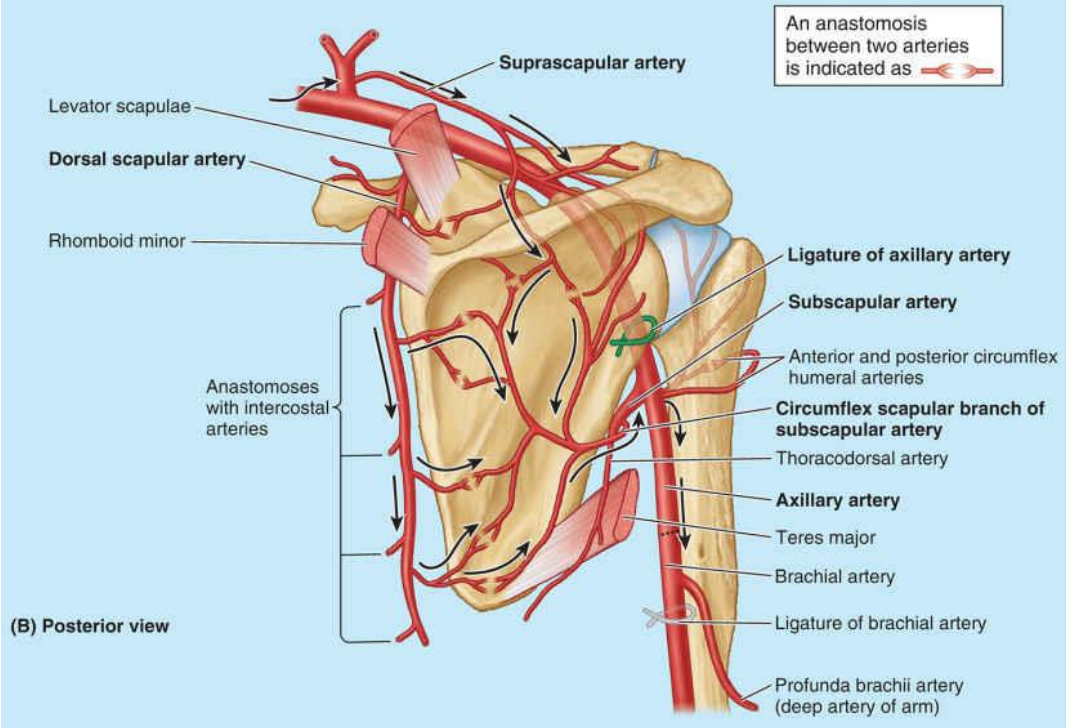
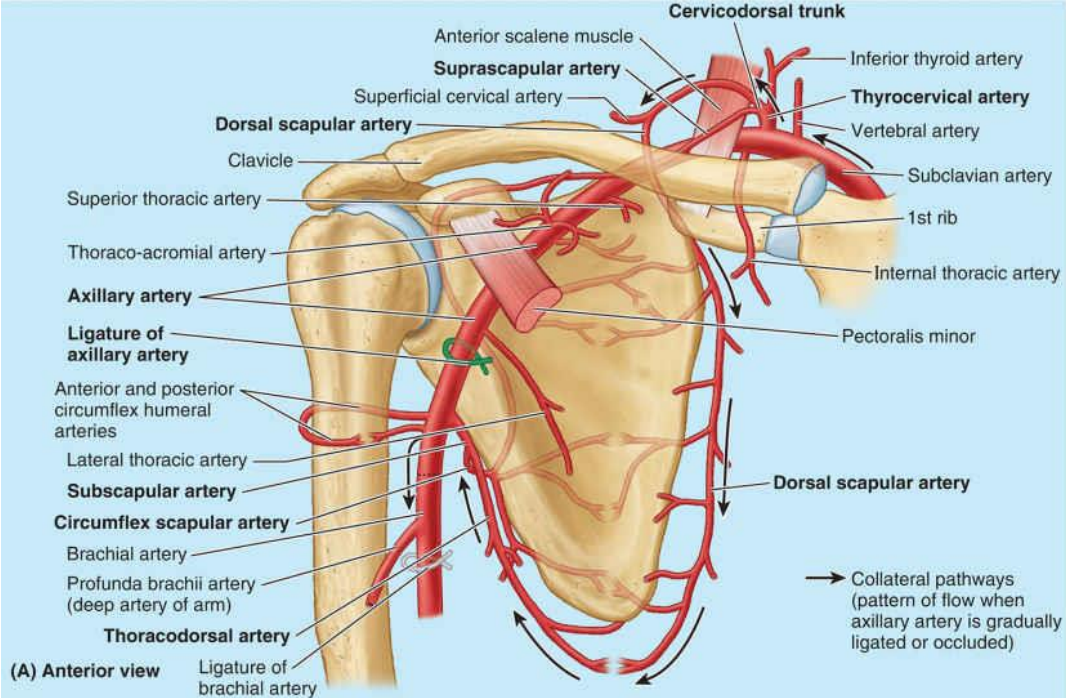
**Figure 6.8.** Extensive collateral blood supply of the scapular region.

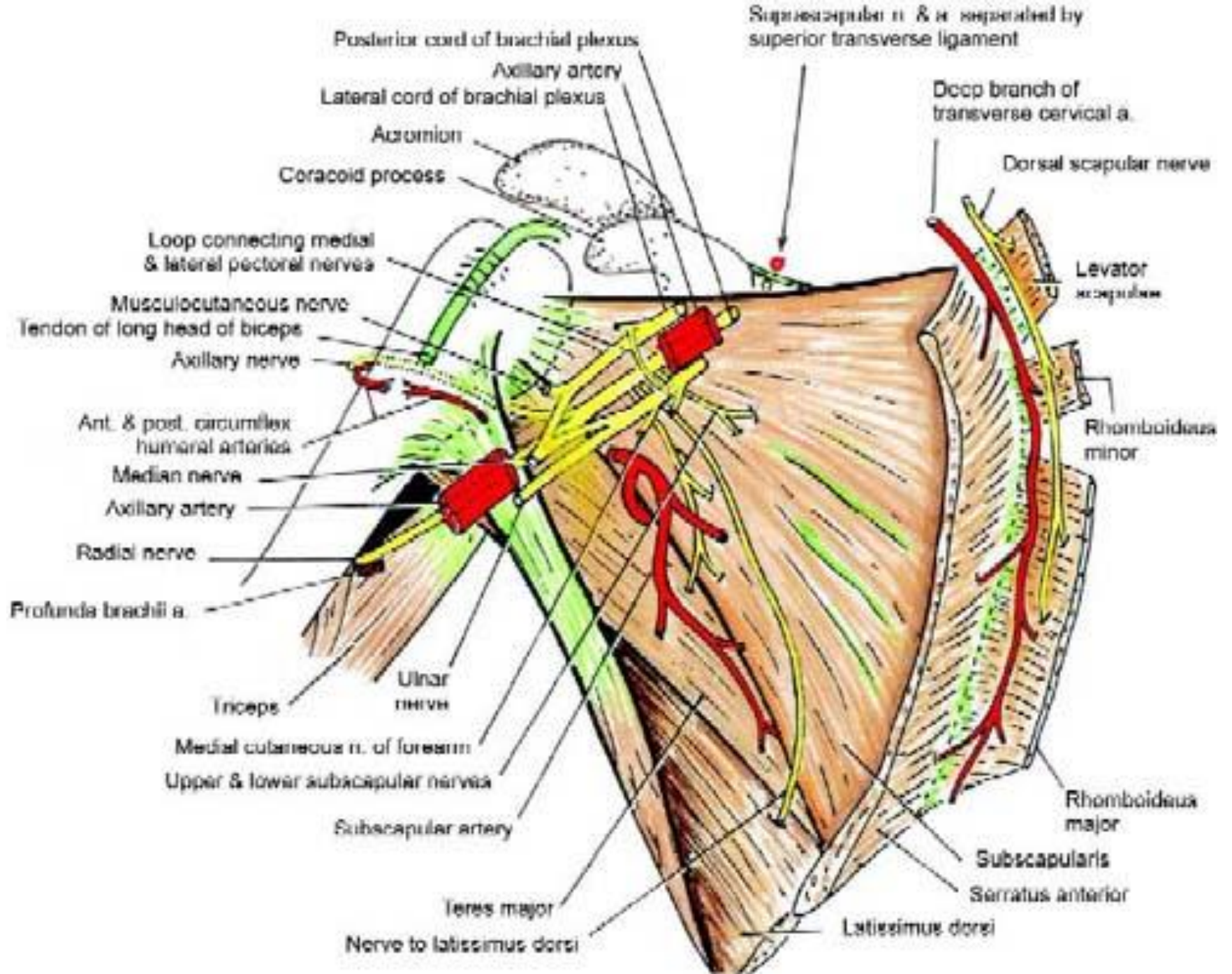


osis  
ie  
  
e  
y  
uch  
ys  
y

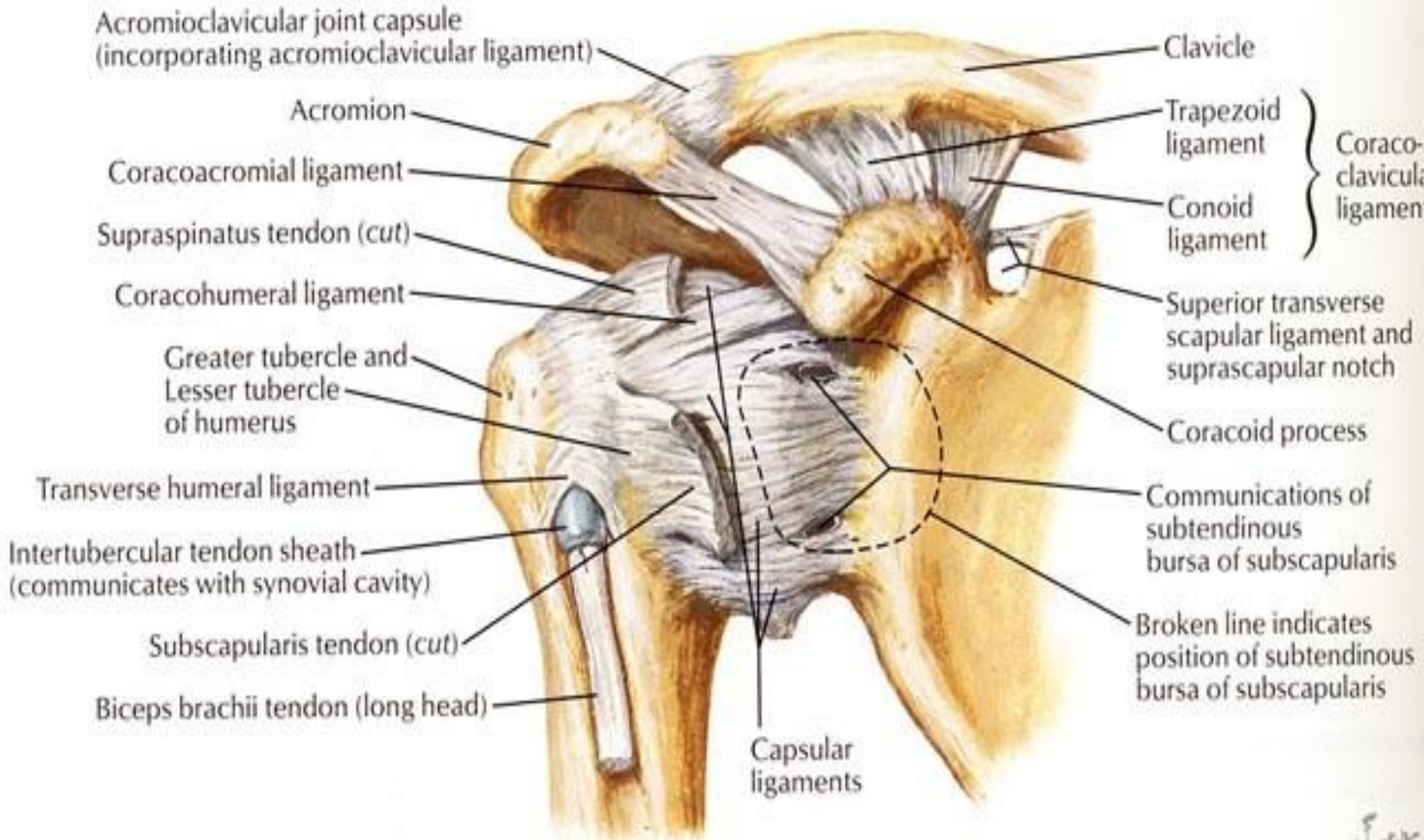




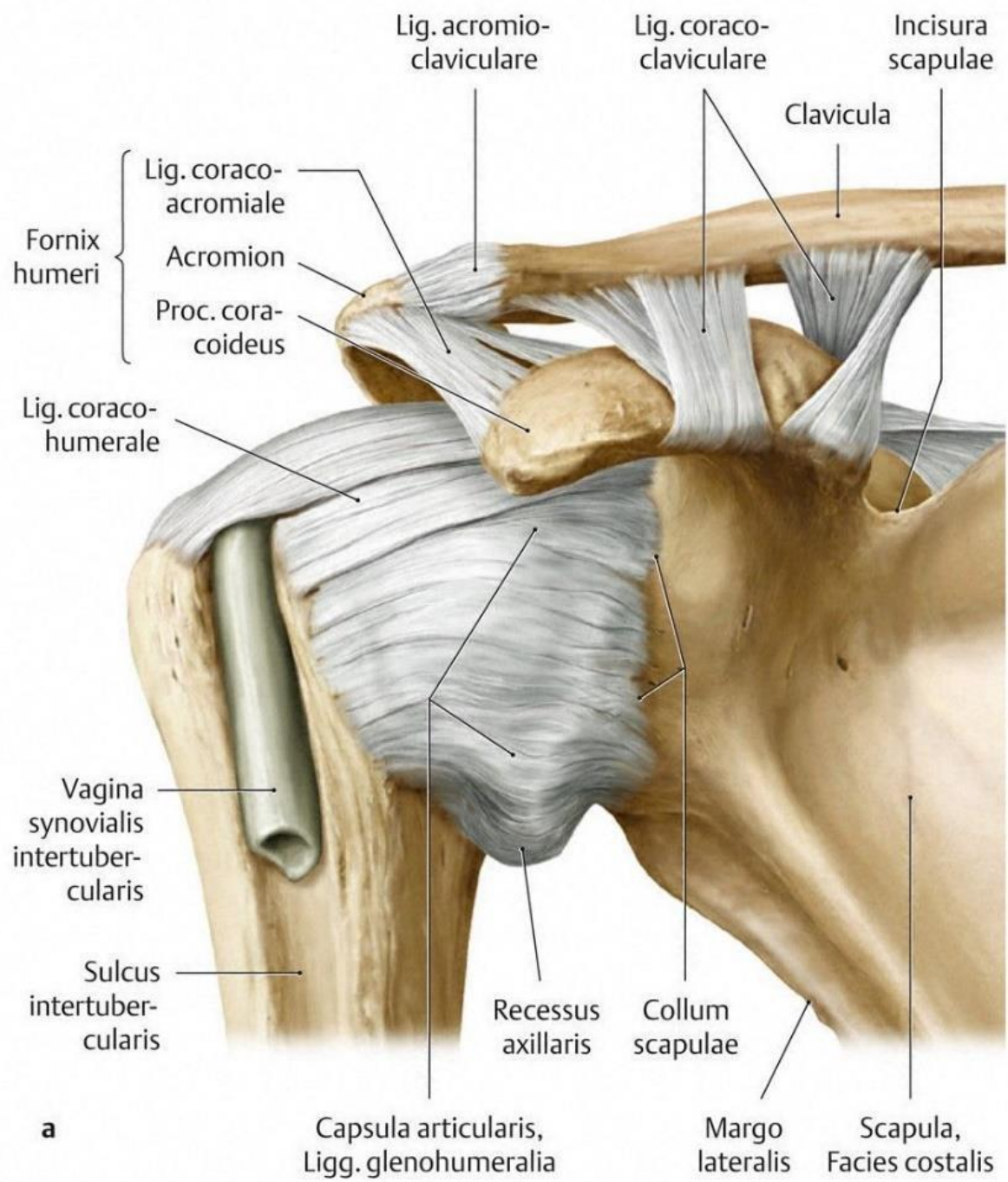




### Anterior view

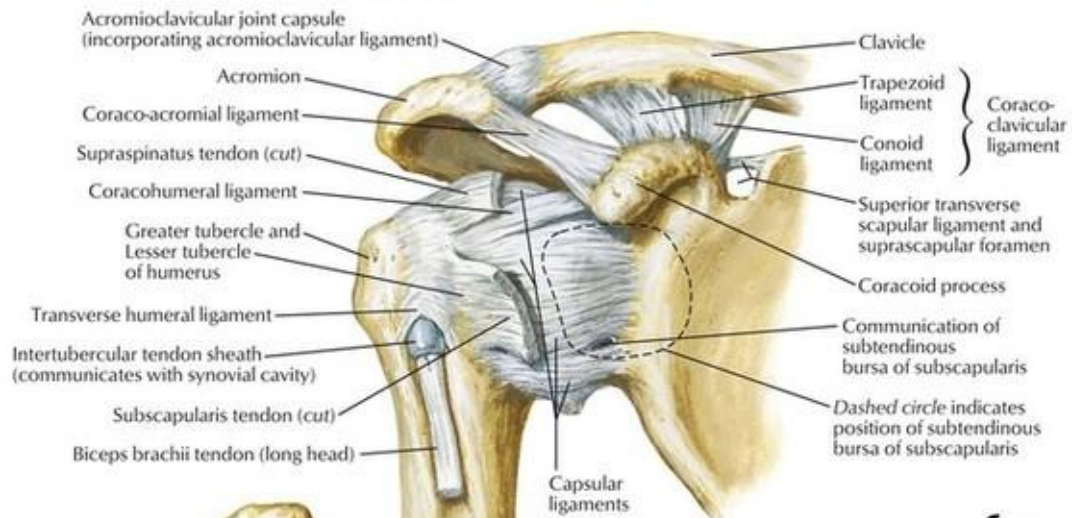


Handwritten signature or mark in the bottom right corner.

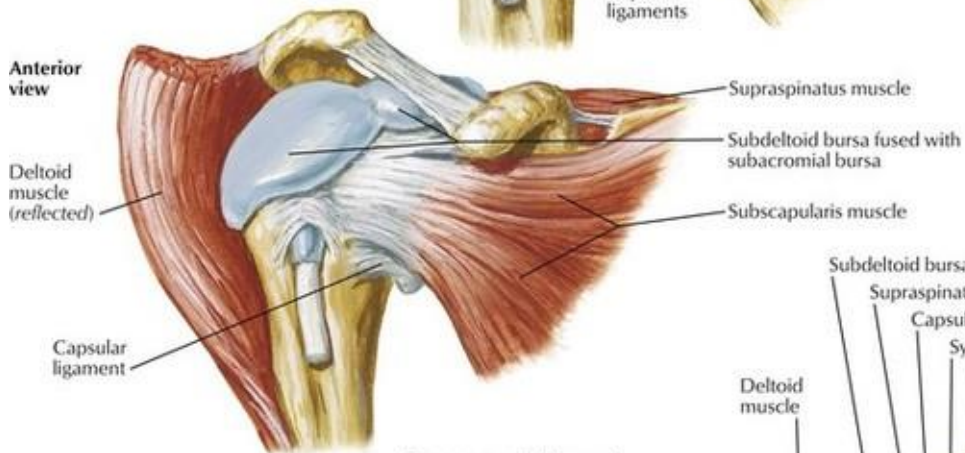


a

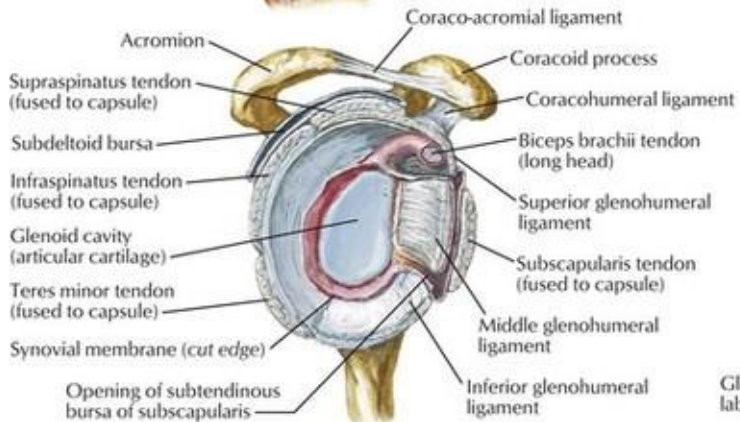
**Anterior view**



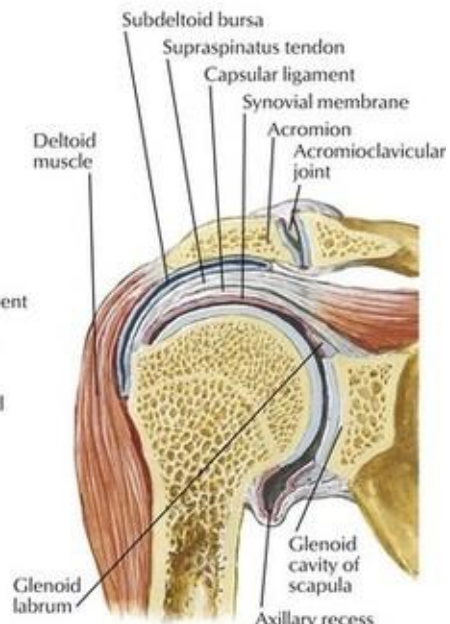
**Anterior view**



*F. Netter M.D.*

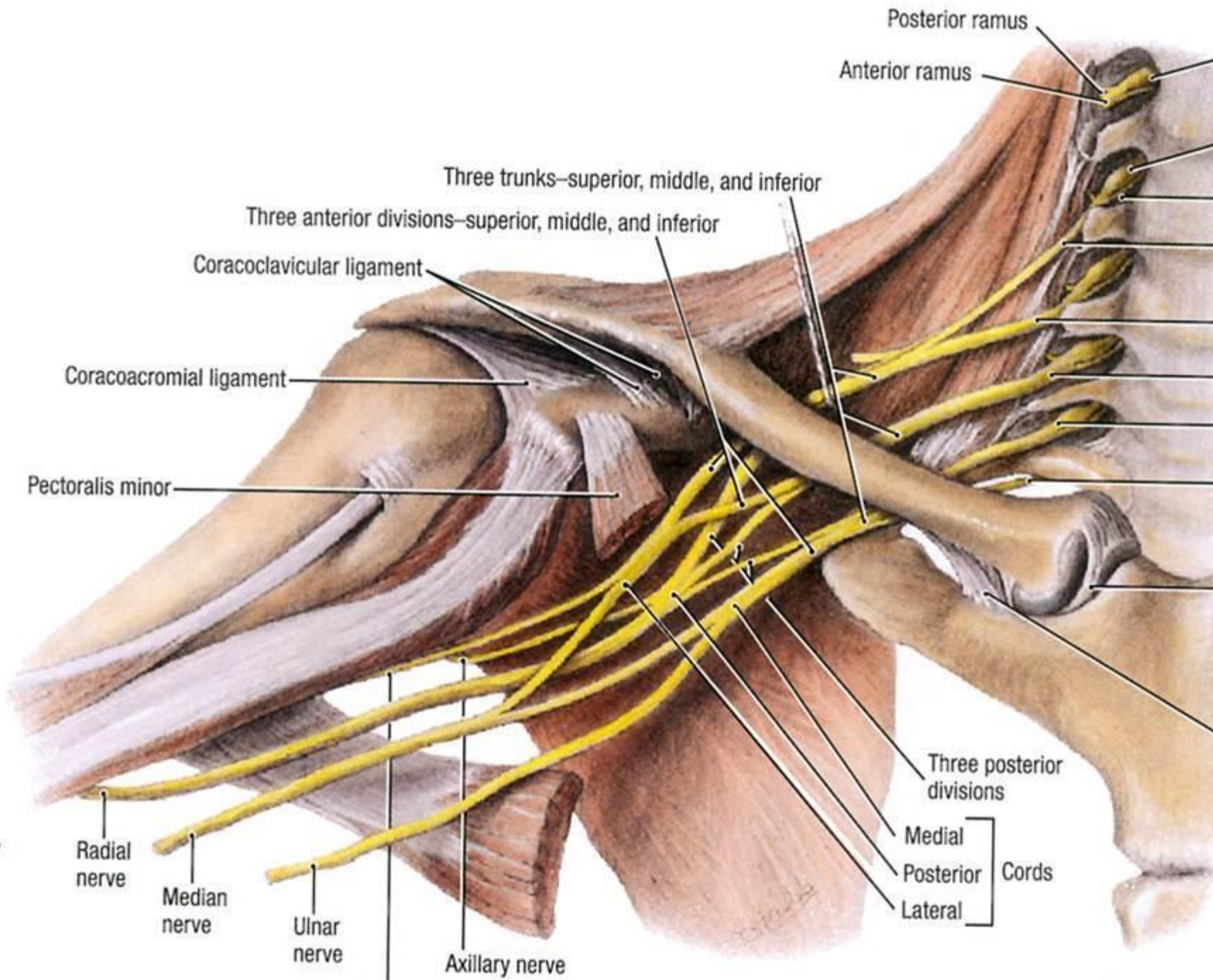


**Joint opened: lateral view**

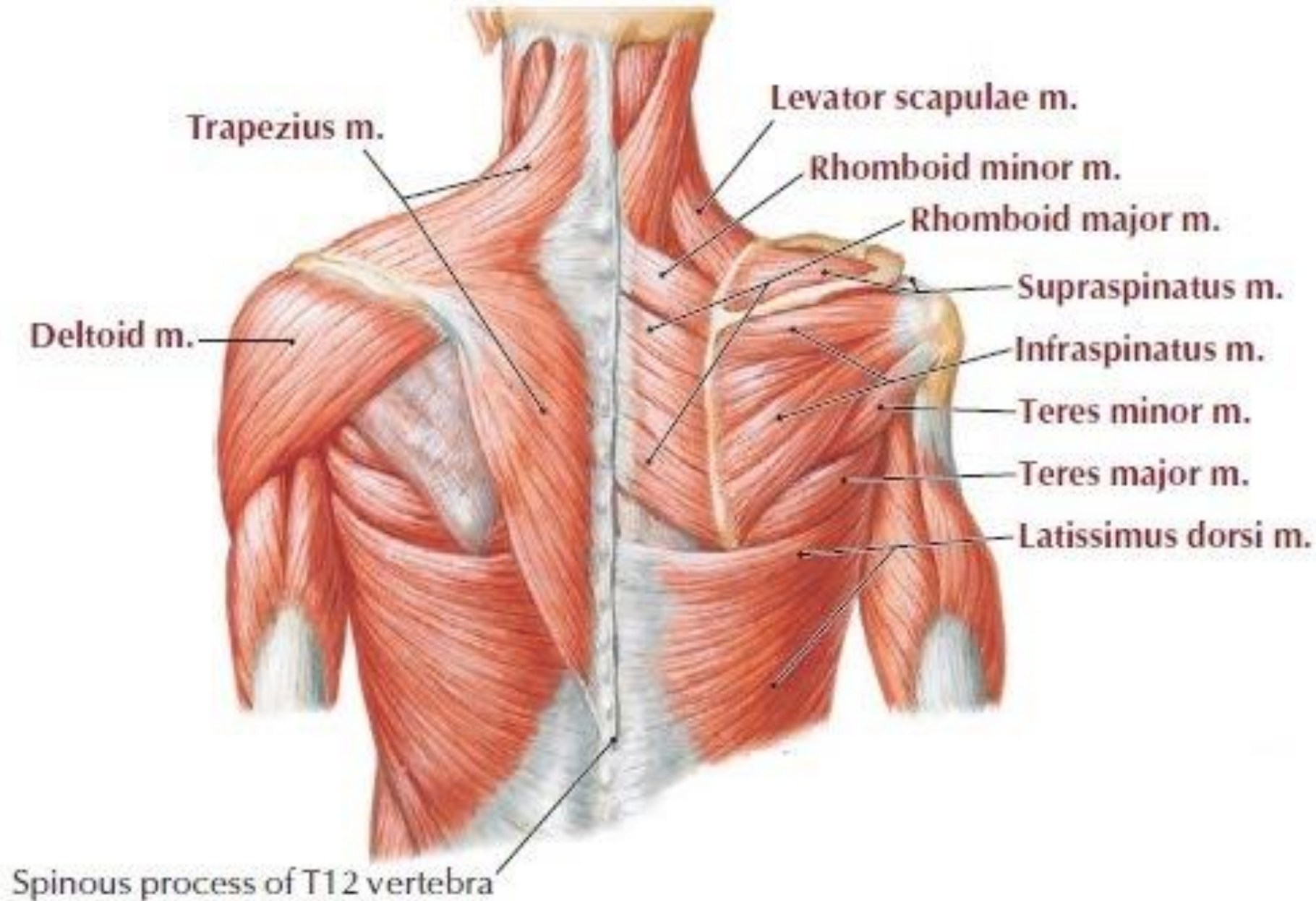


**Coronal section through joint**

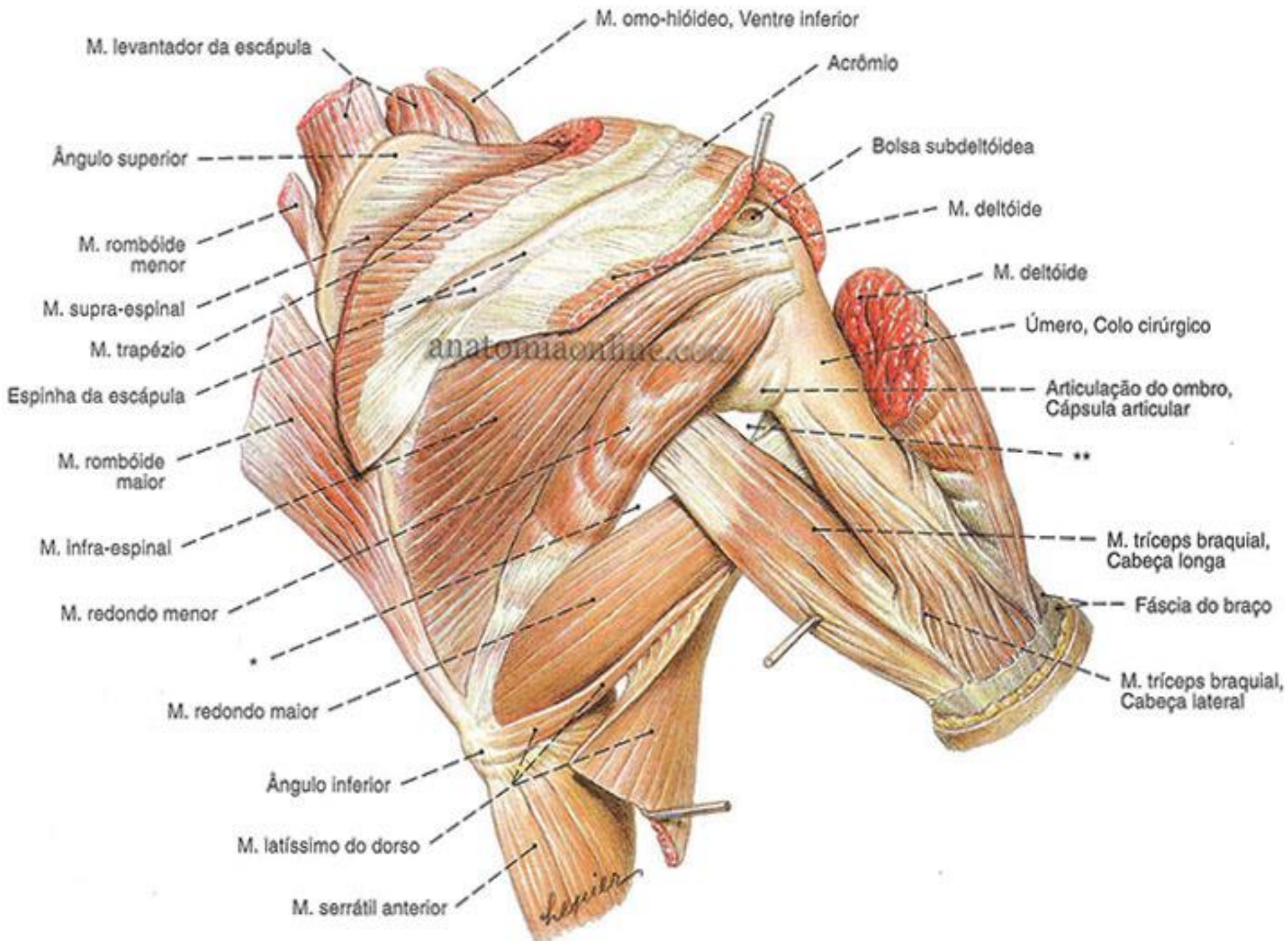
**Anterior View**



## Posterior view









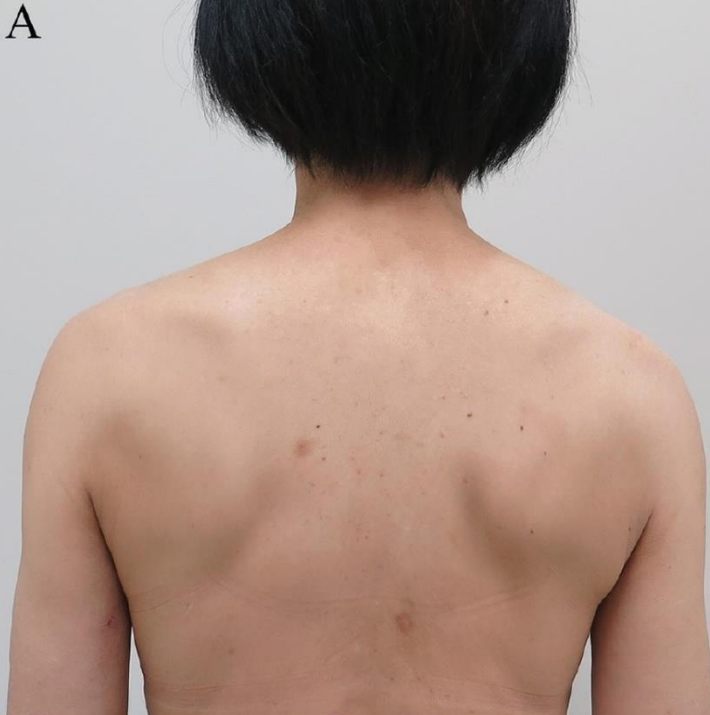




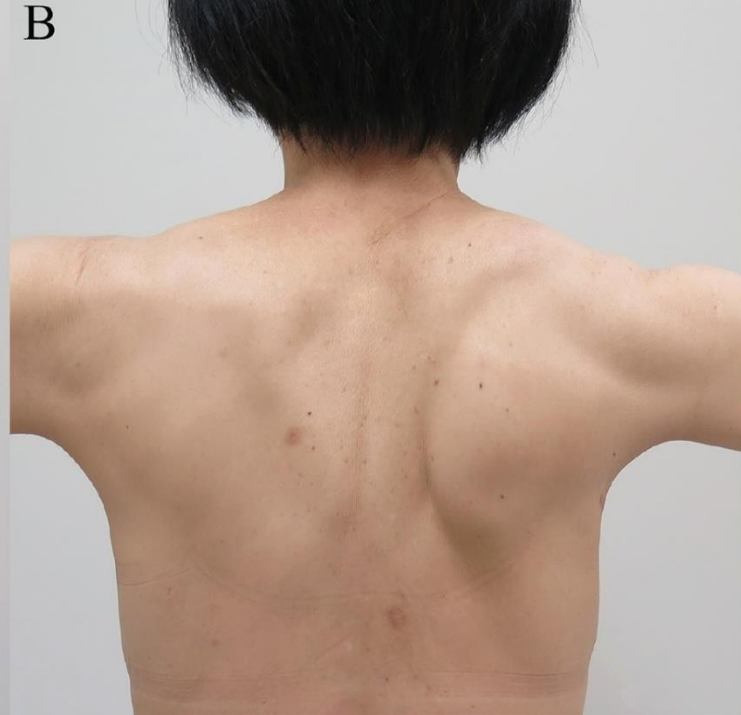




A



B

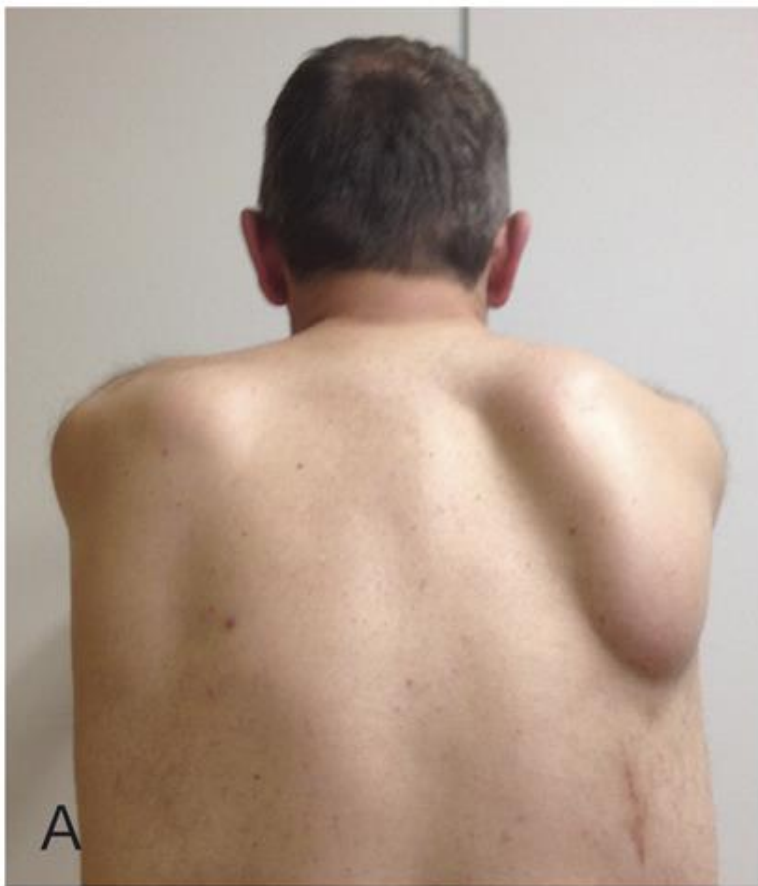


C



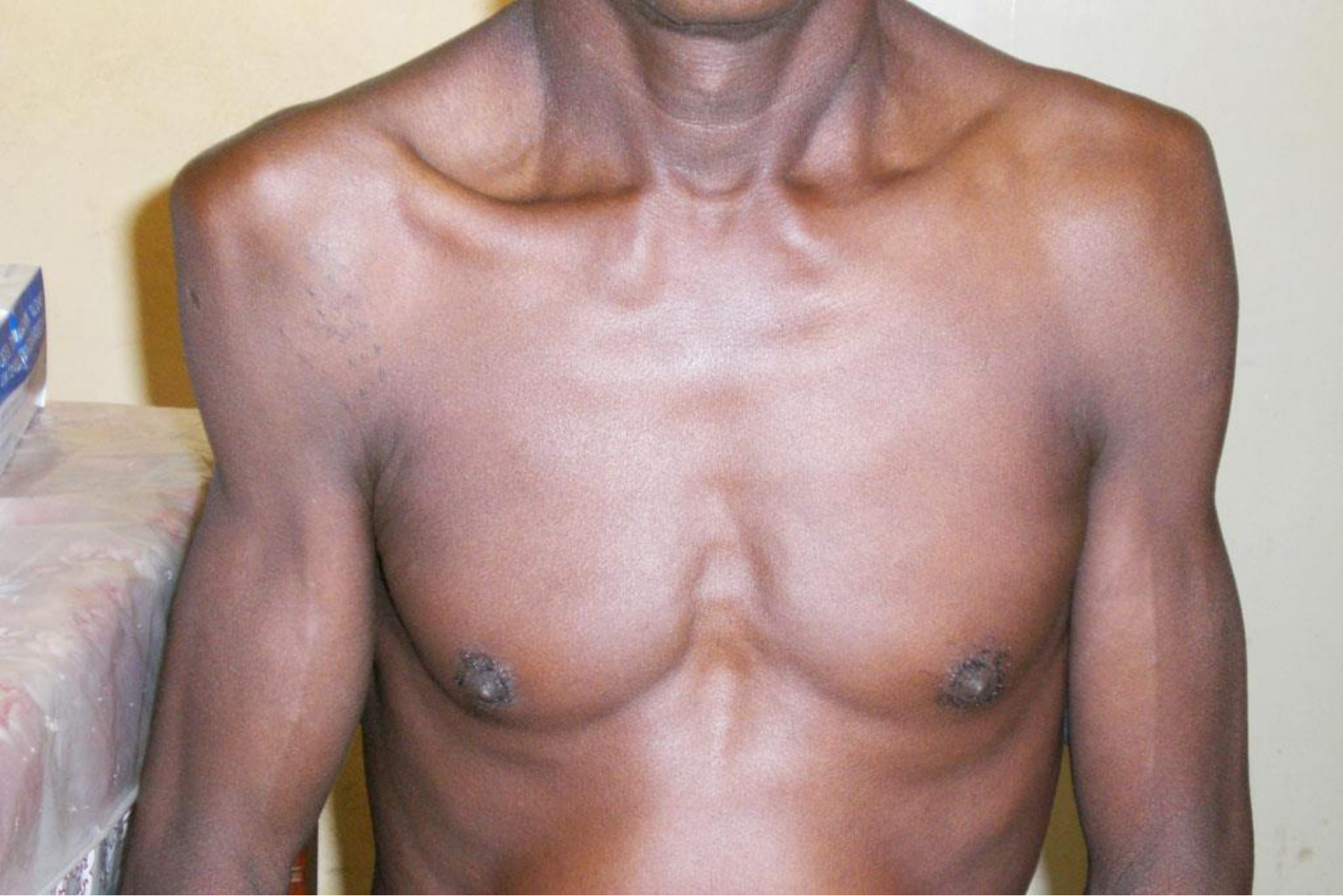
D

























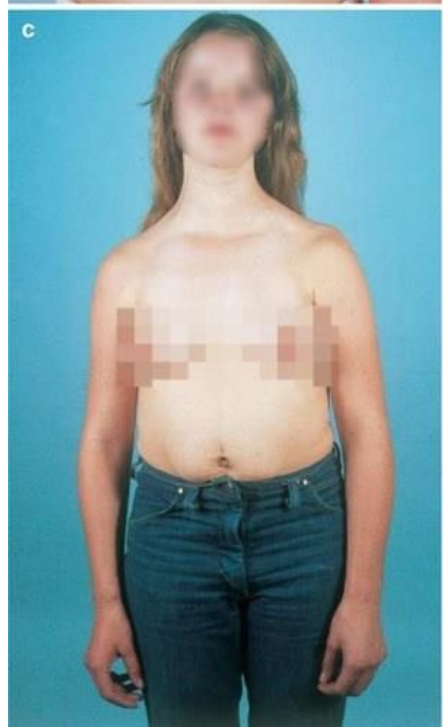
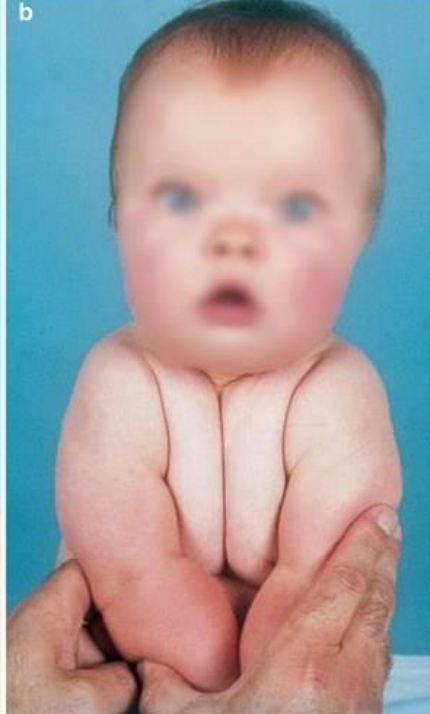


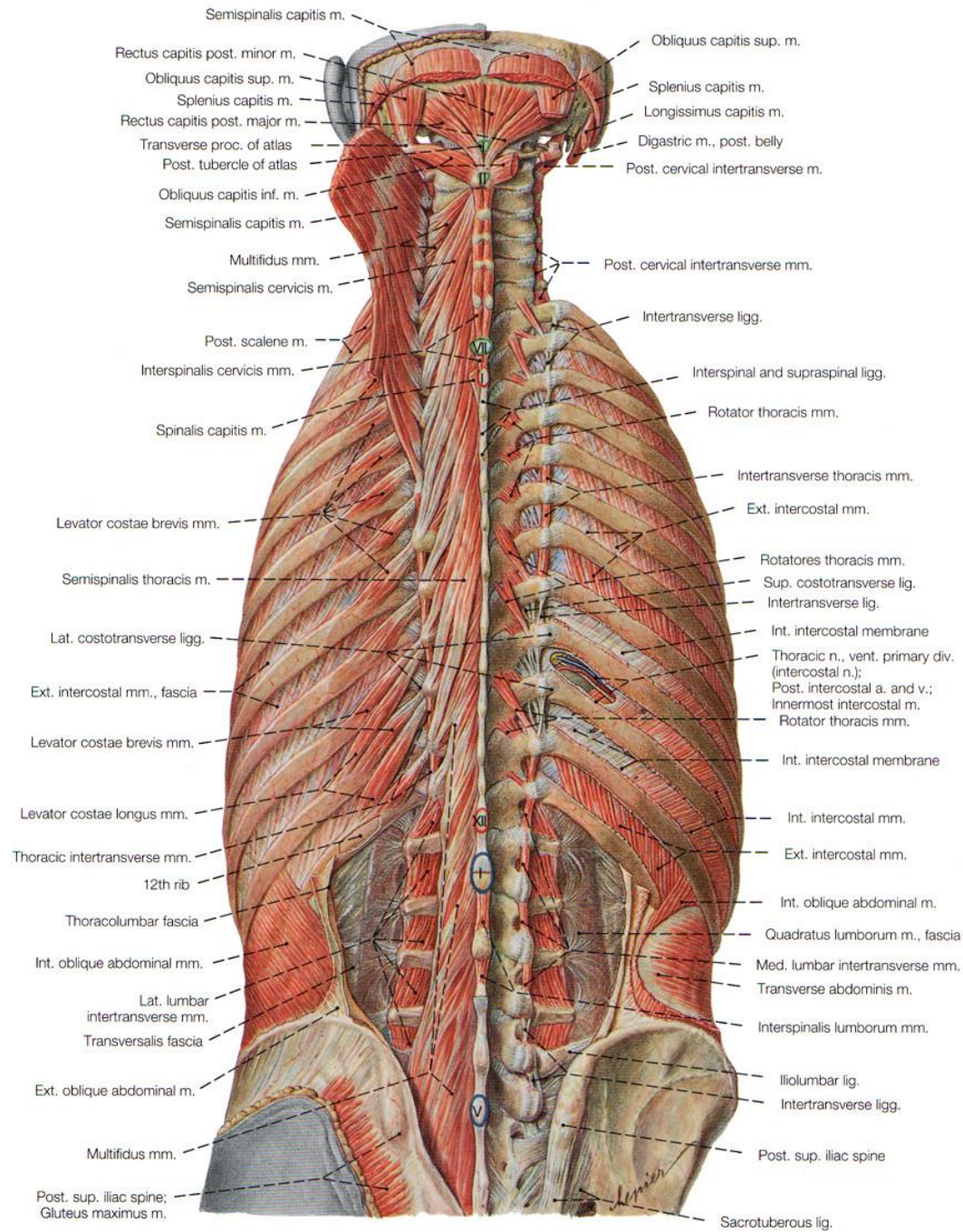
**a**

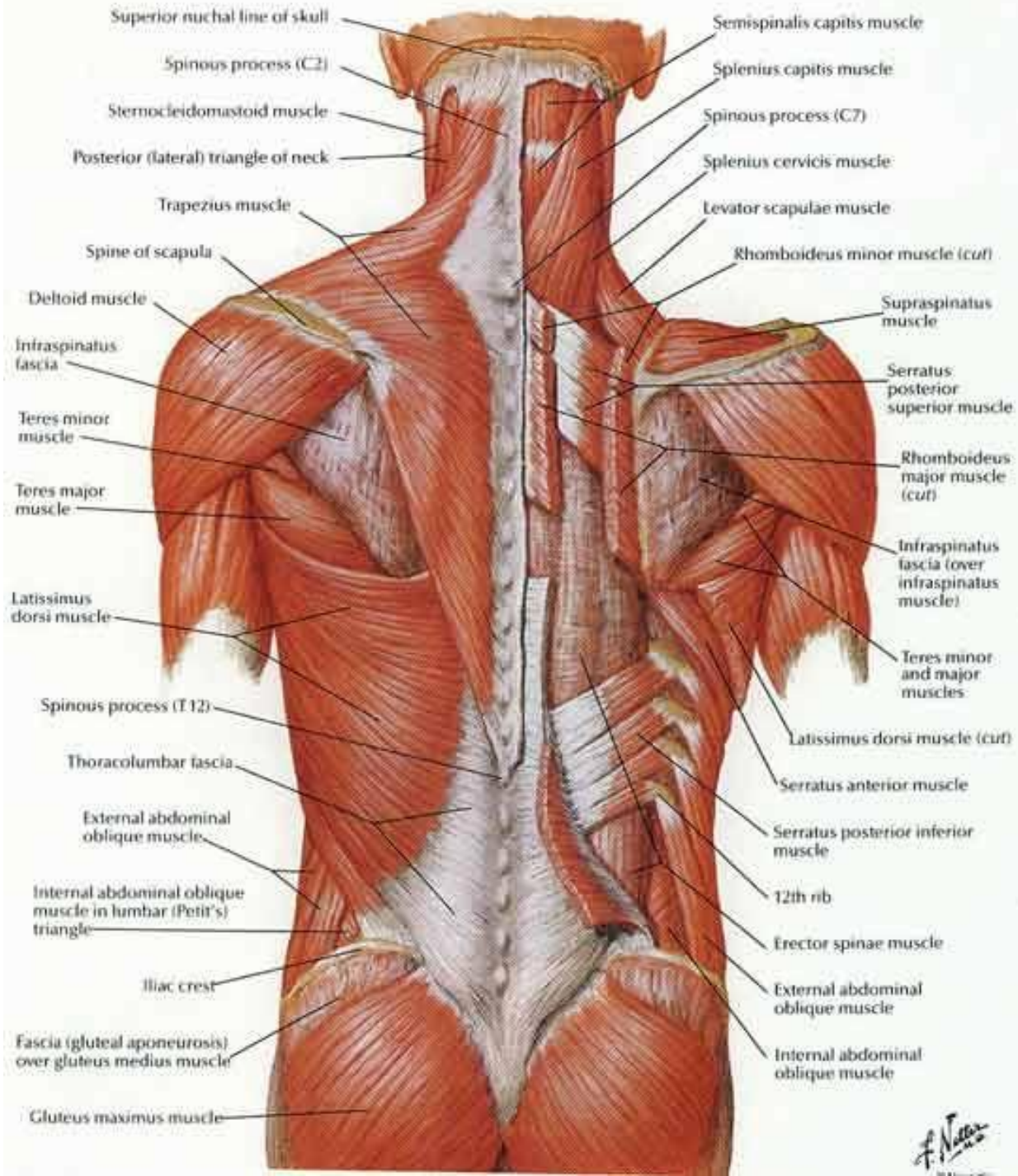


**b**





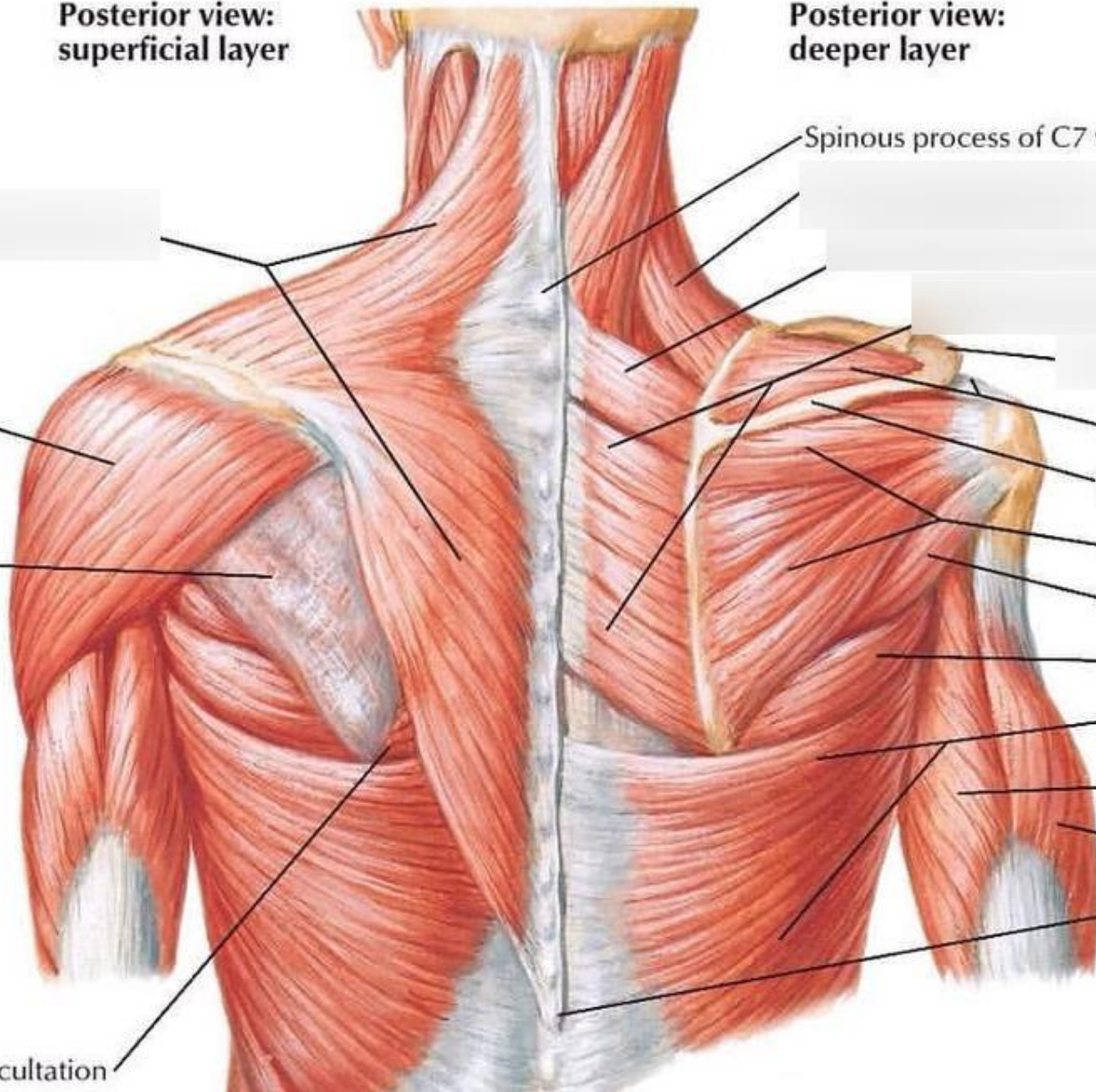




F. Netter

Posterior view:  
superficial layer

Posterior view:  
deeper layer



Deltoid muscle

Infraspinatus fascia

Triangle of auscultation

Spinous process of C7 vertebra

Supraspinatus muscle

Infraspinatus muscle

Teres minor muscle

Teres major muscle

Long head } Triceps brachii muscle  
Lateral head }

Spinous process of T12 vertebra

*F. Netter M.D.*