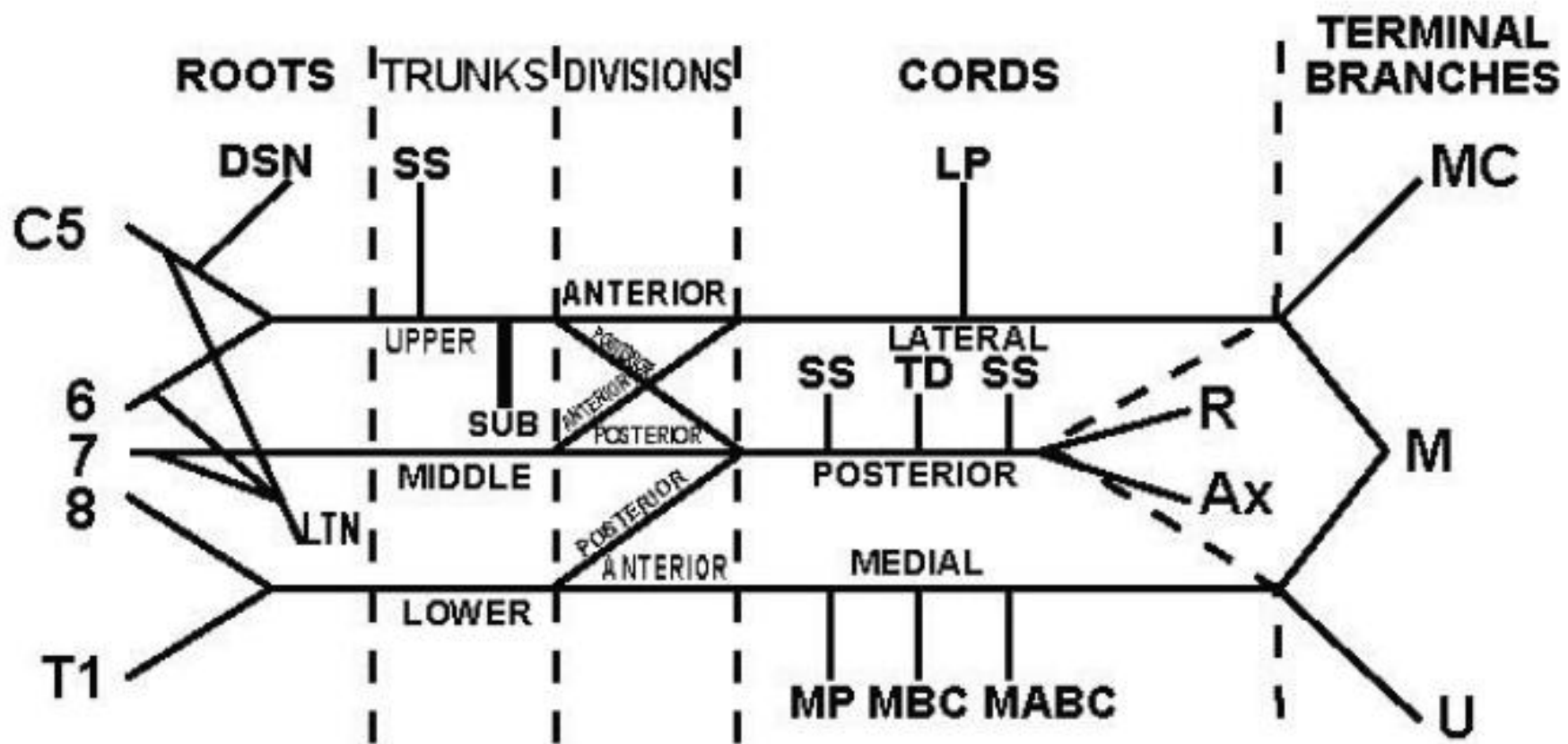


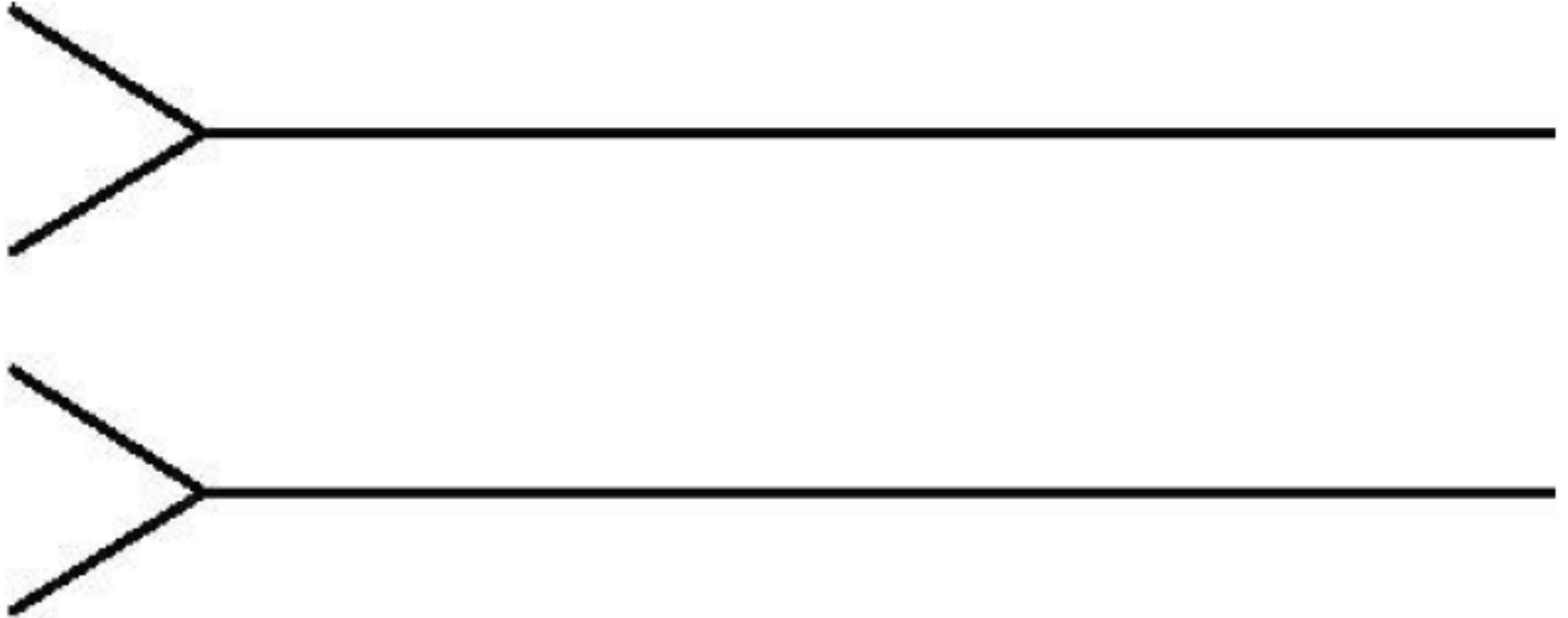
Anatomy of

BRACHIAL PLEXUS

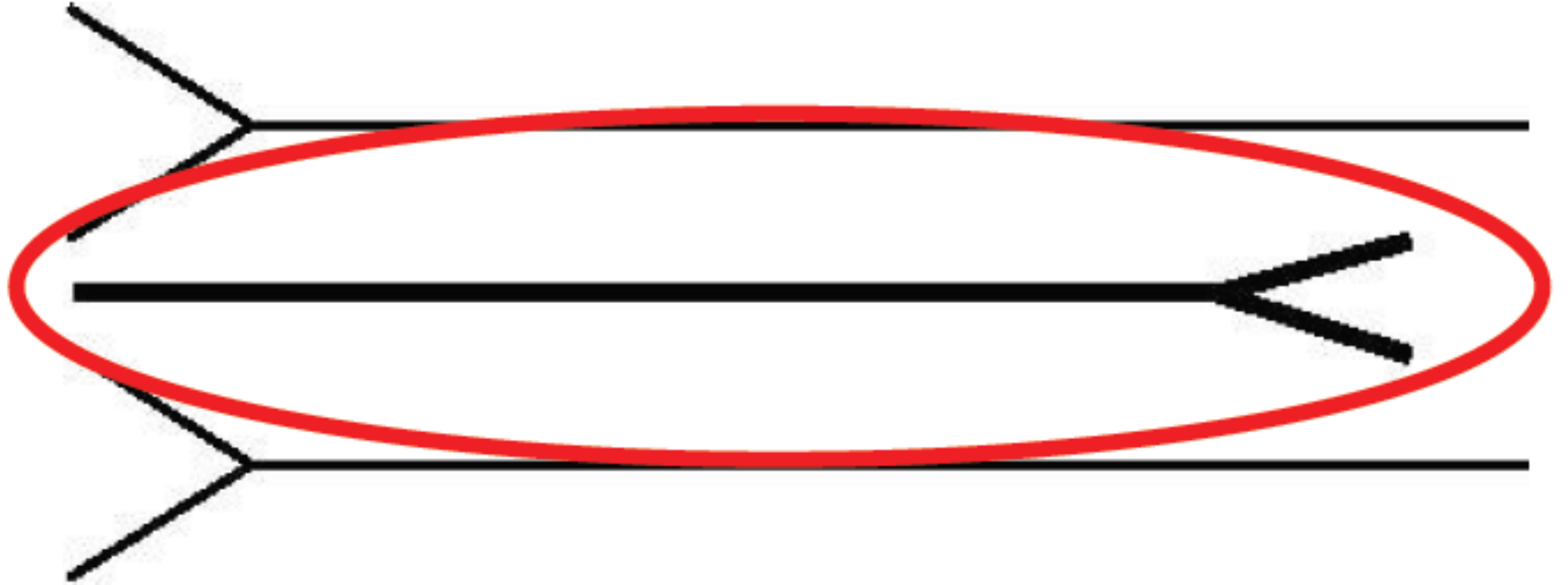


Dr. Anubhav Gupta
Consultant Plastic Surgeon
Sir Ganga Ram Hospital

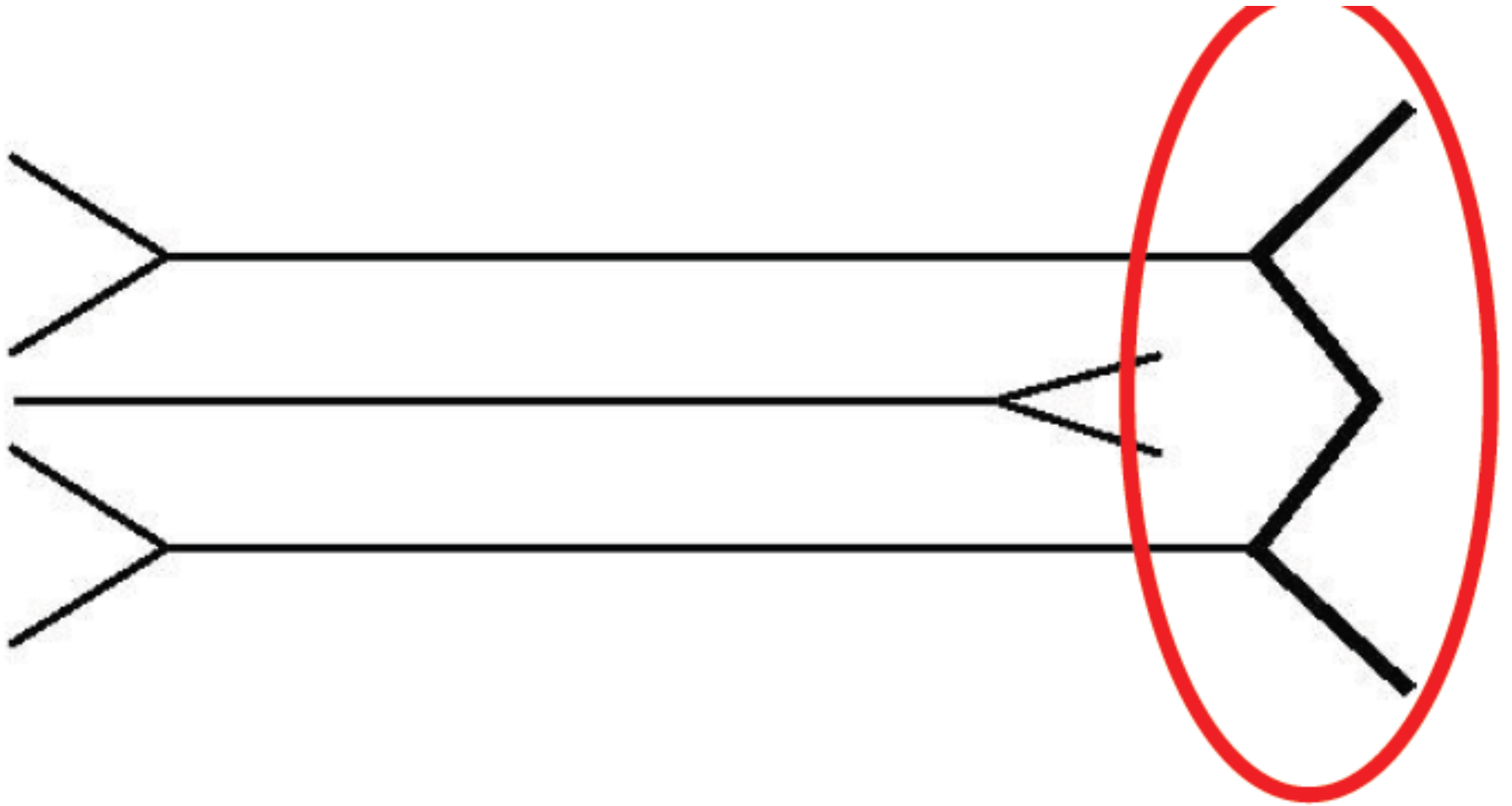




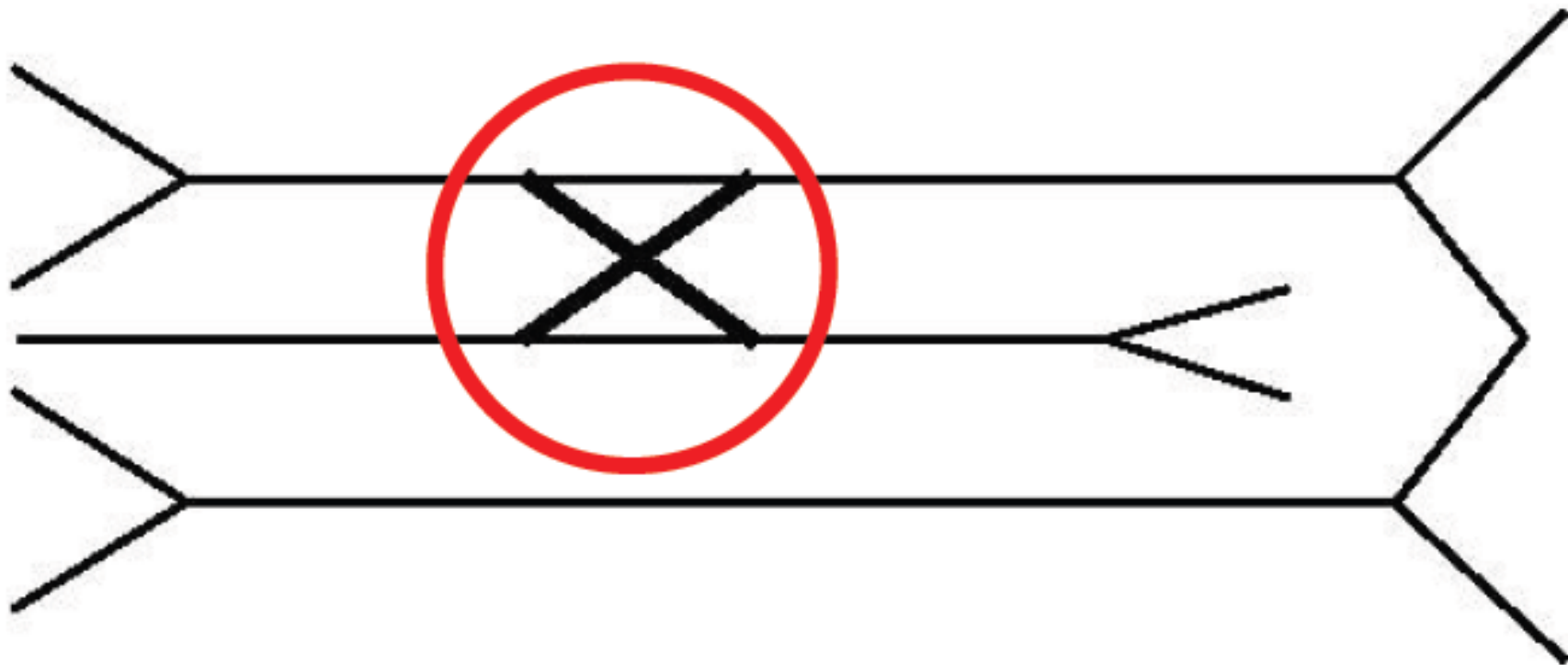
2 Headless Arrows



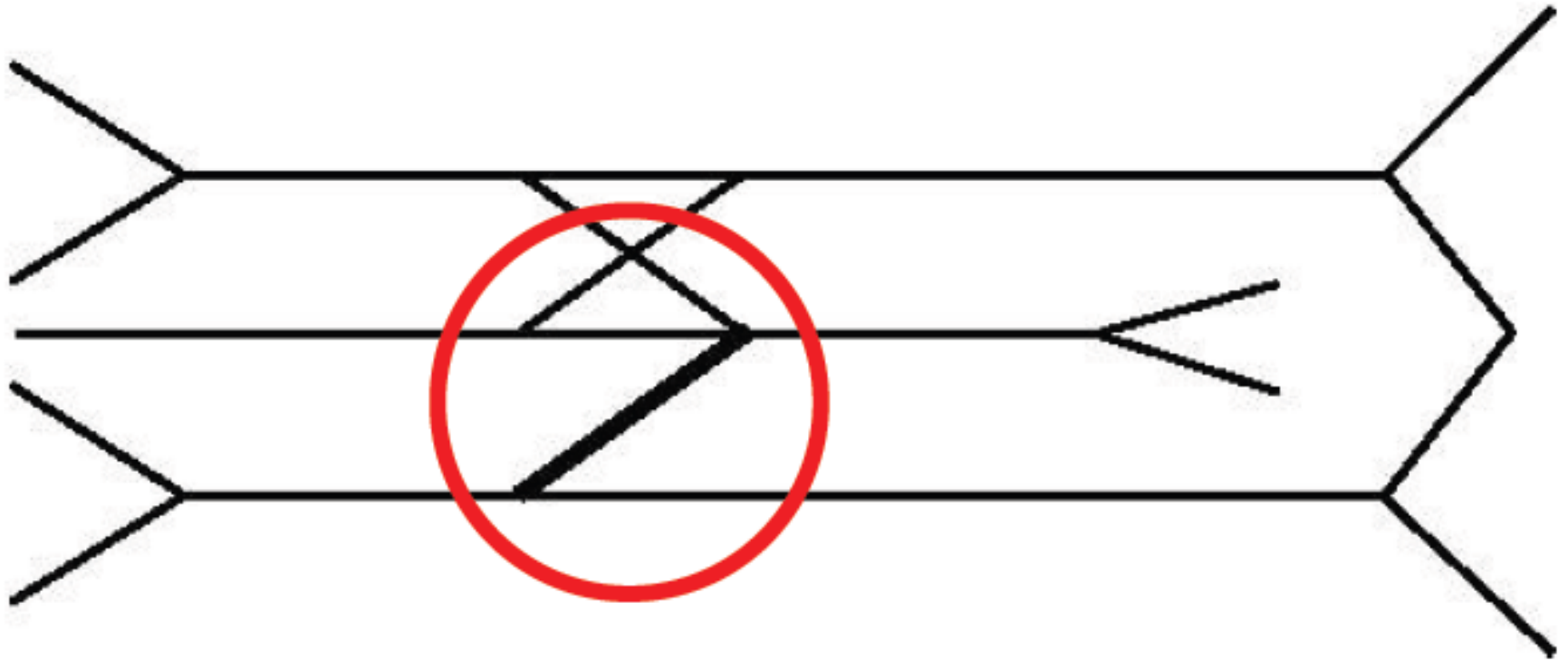
A Headless Arrow in opposite direction



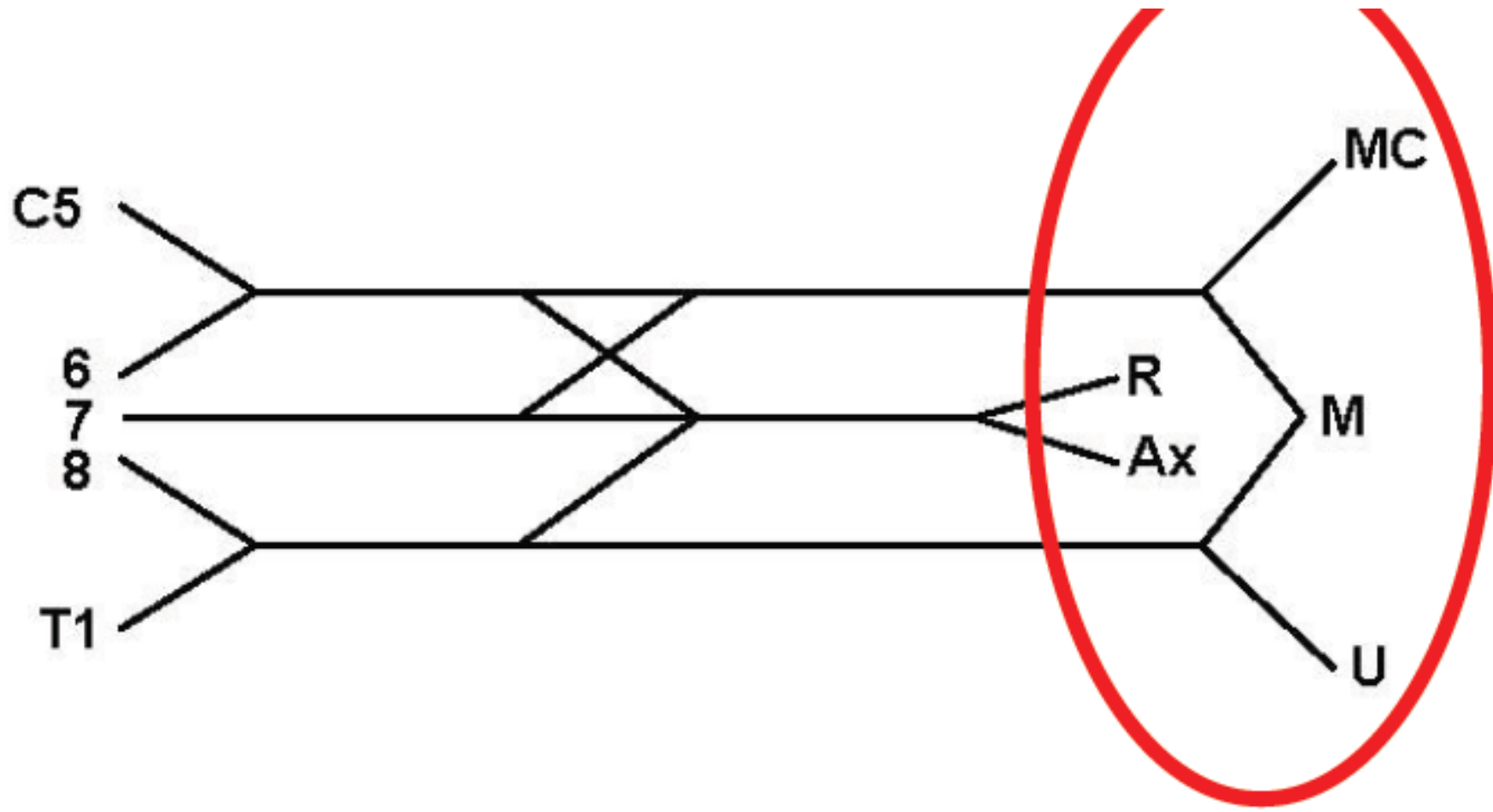
Add a 'W'

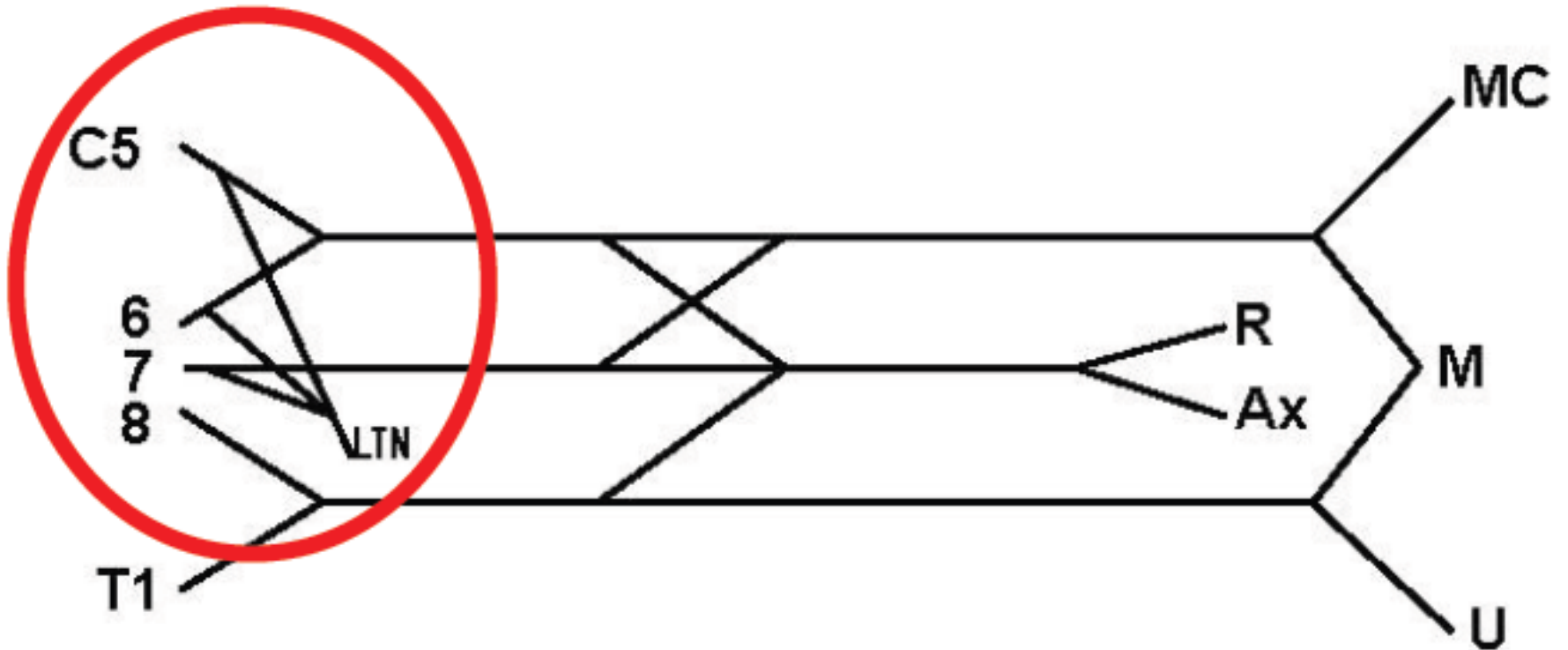


Add an 'X'

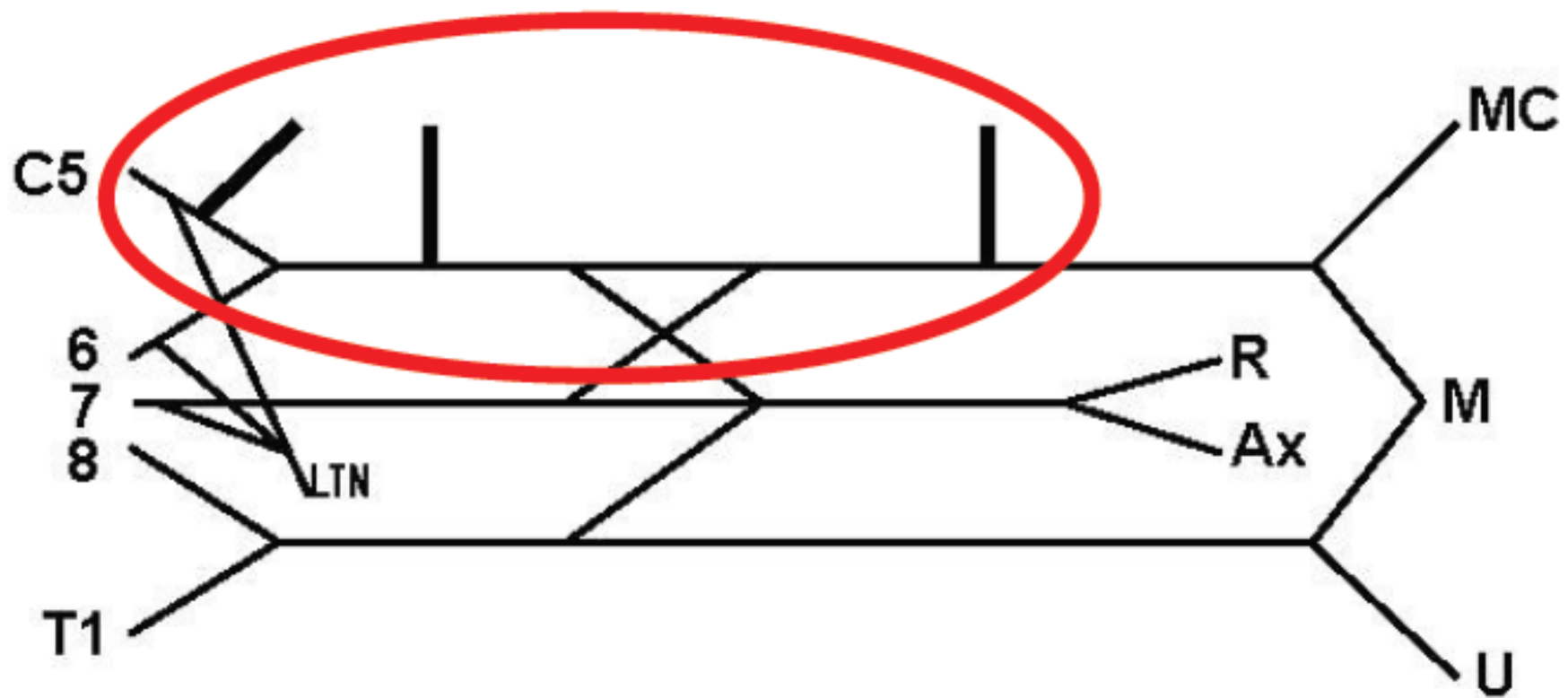


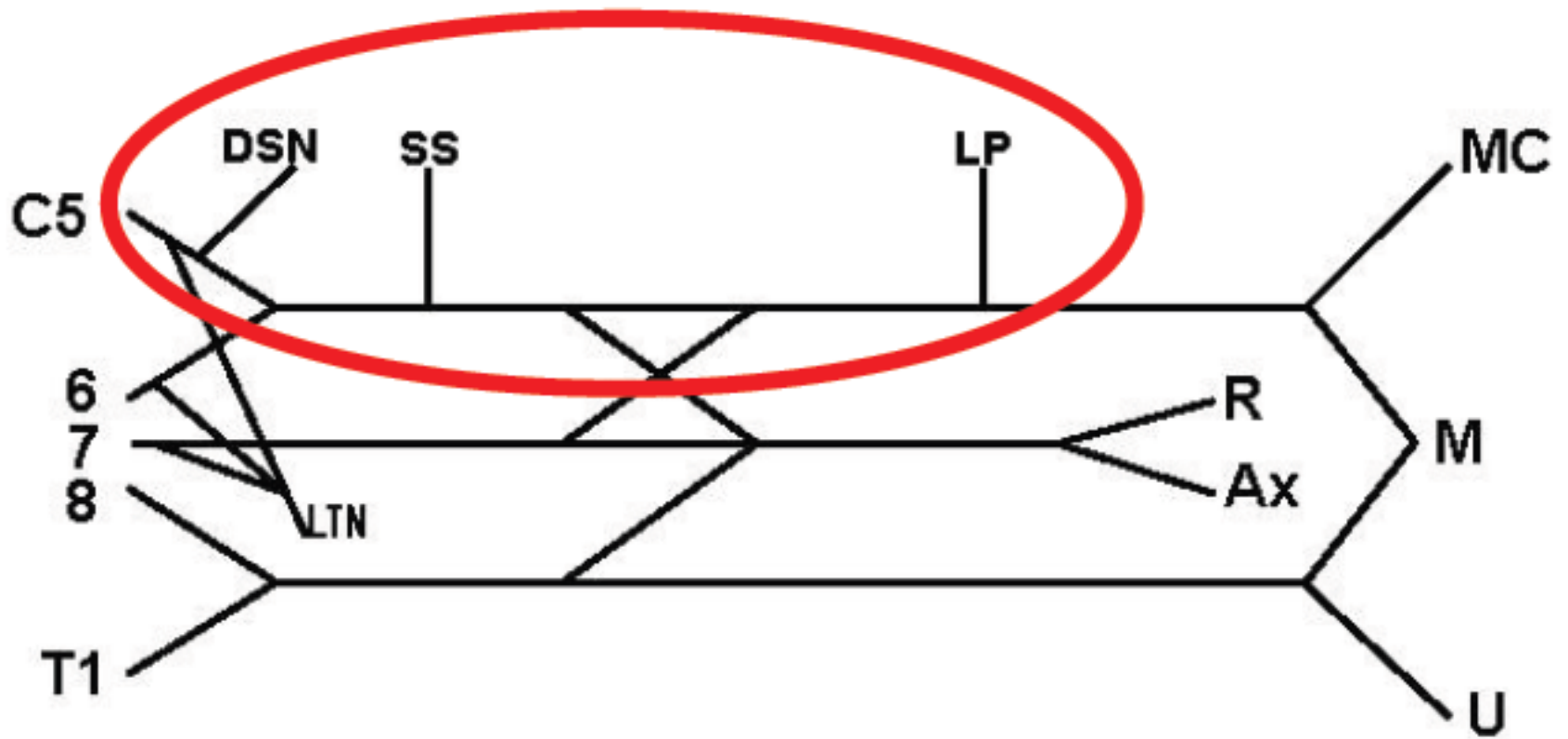
Make a 'Z'



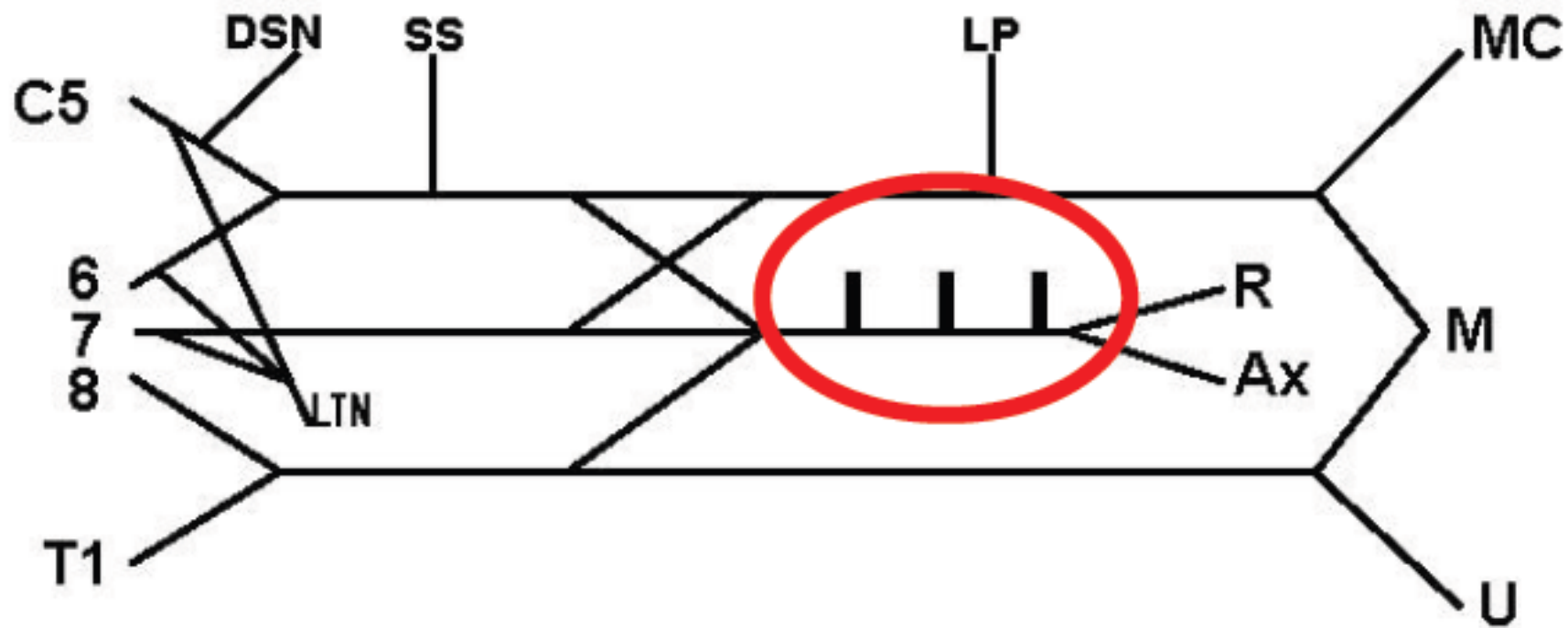


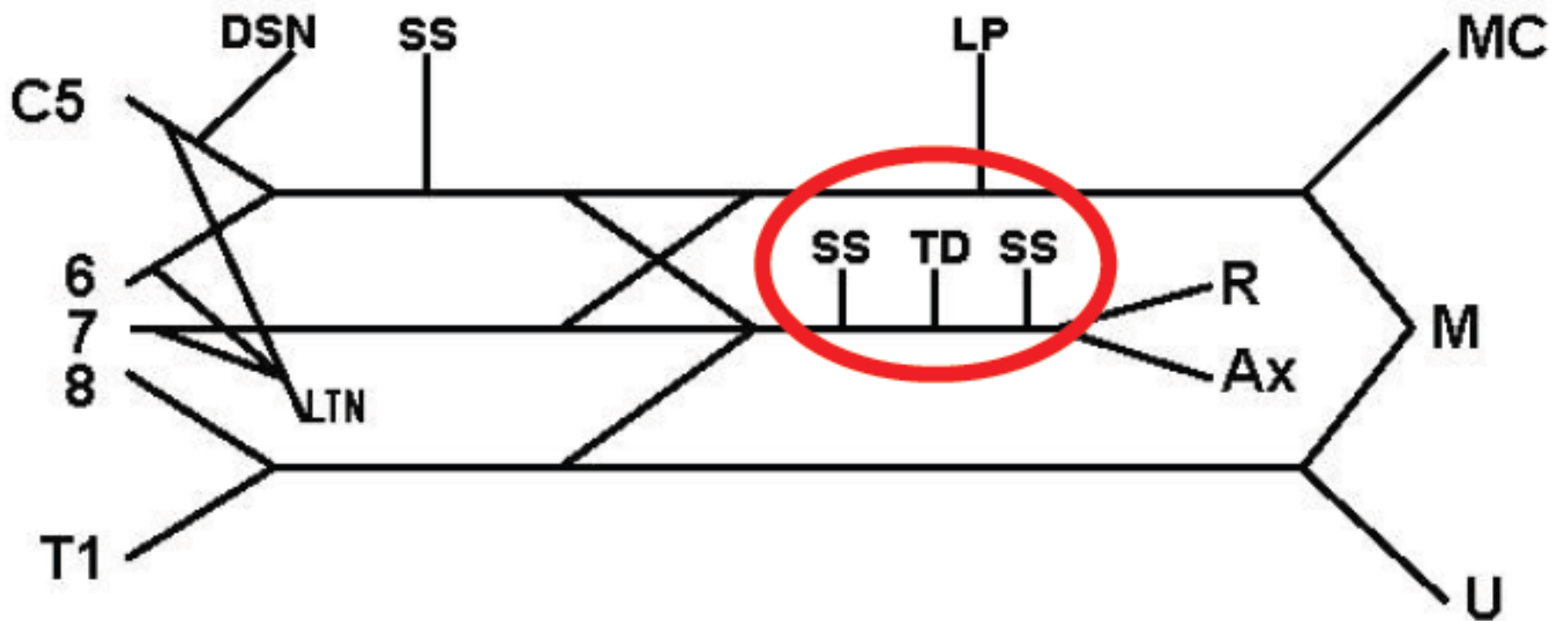
The Concept of Four 3s..



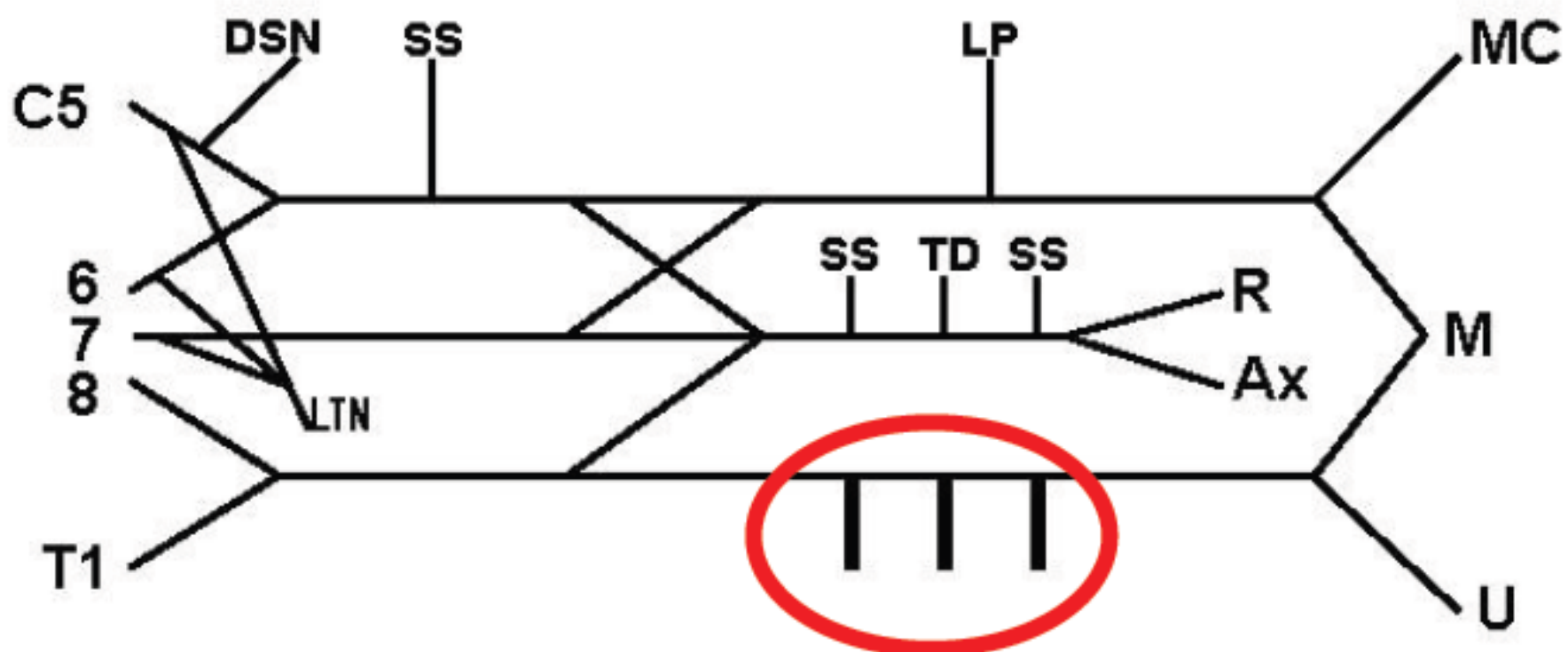


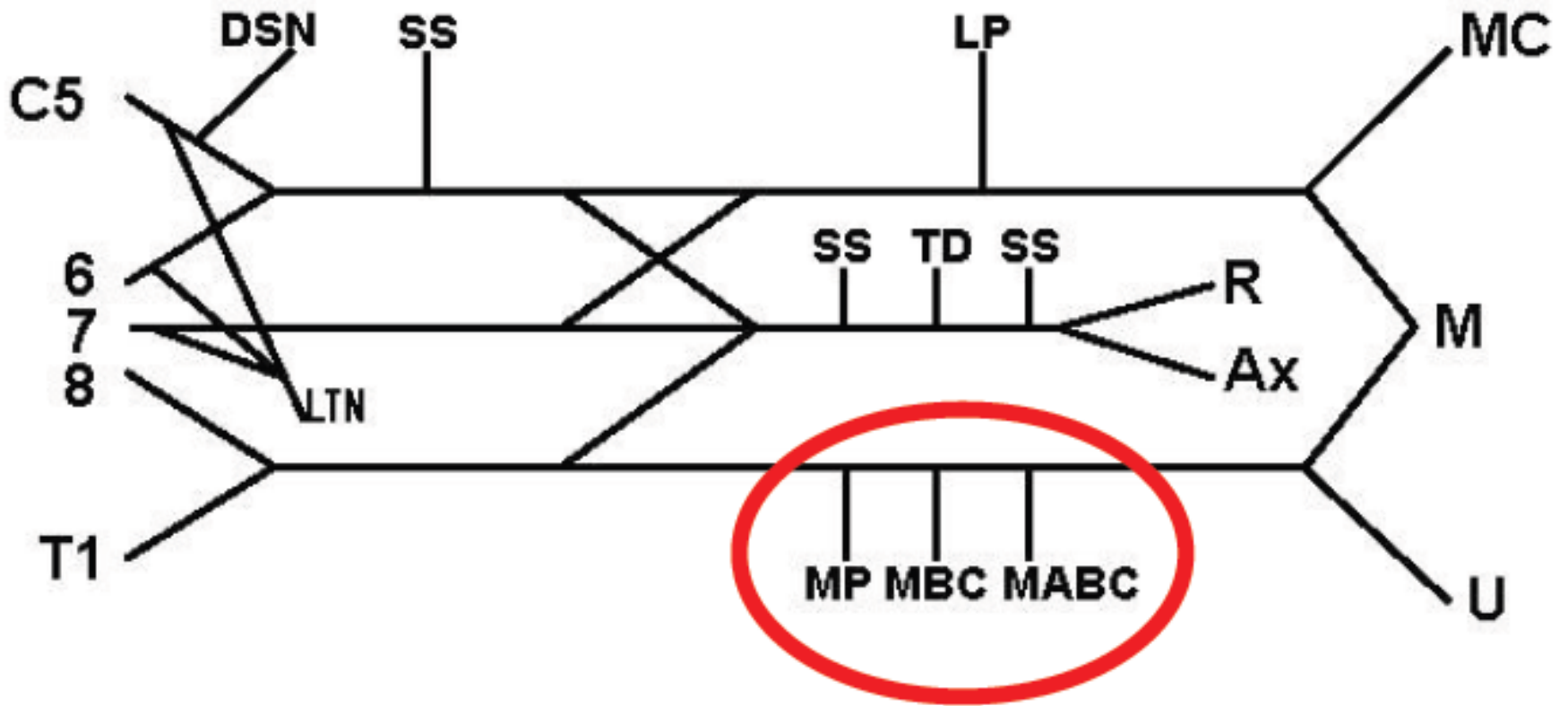
DSN : Dorsoscapular, SS :Suprascapular, LP: Lateral Pectoral Nerve



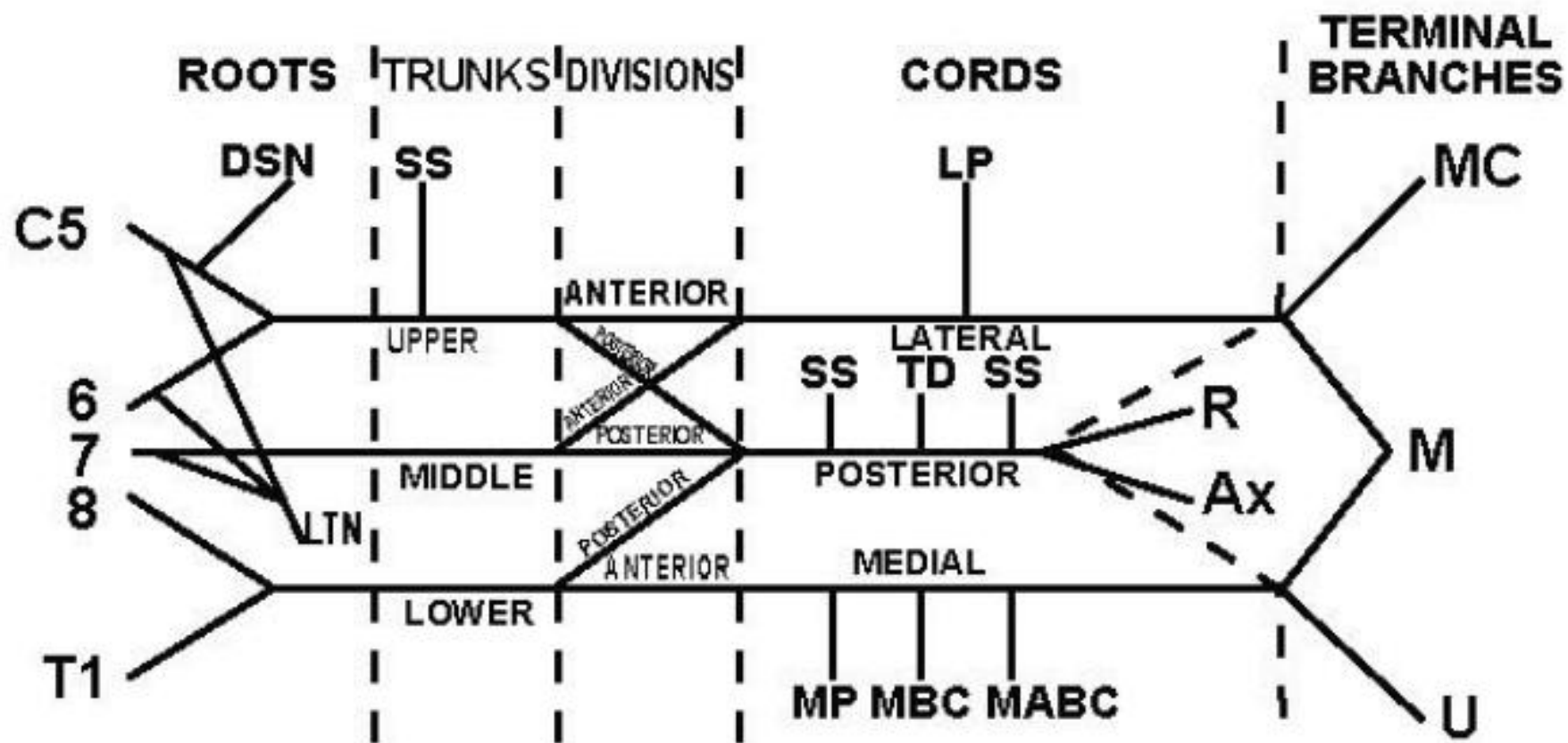


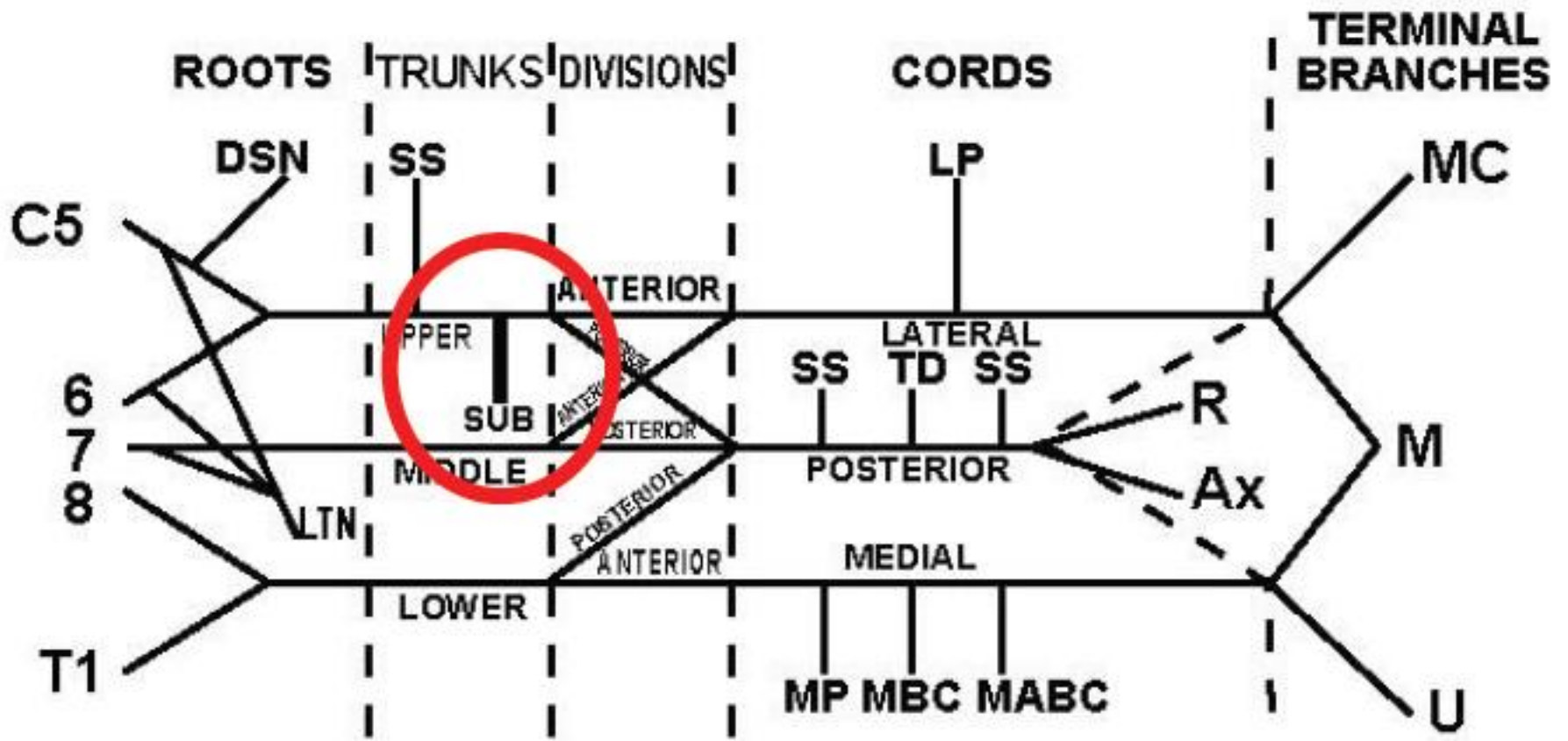
SS: Subscapular, TD: Thoracodorsal

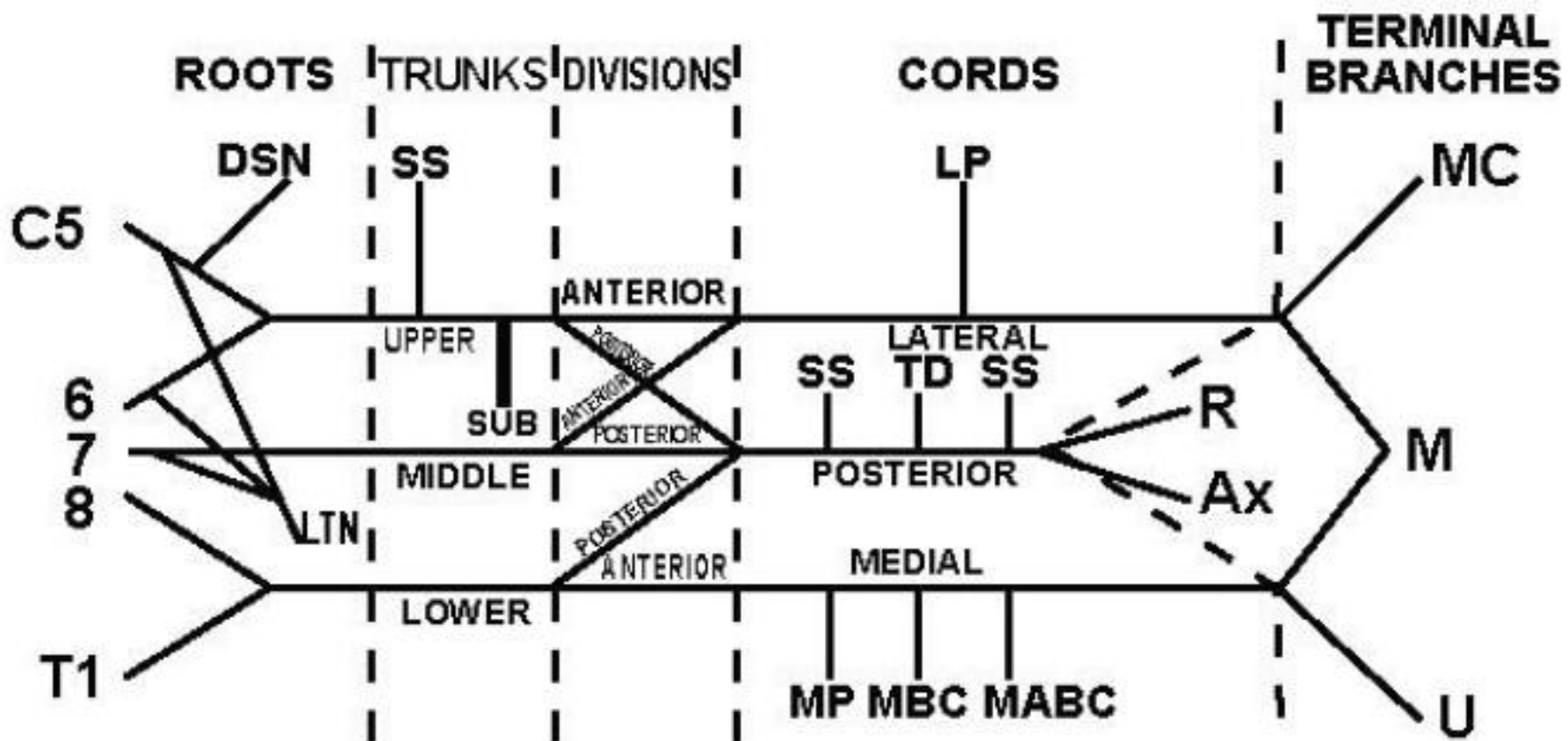


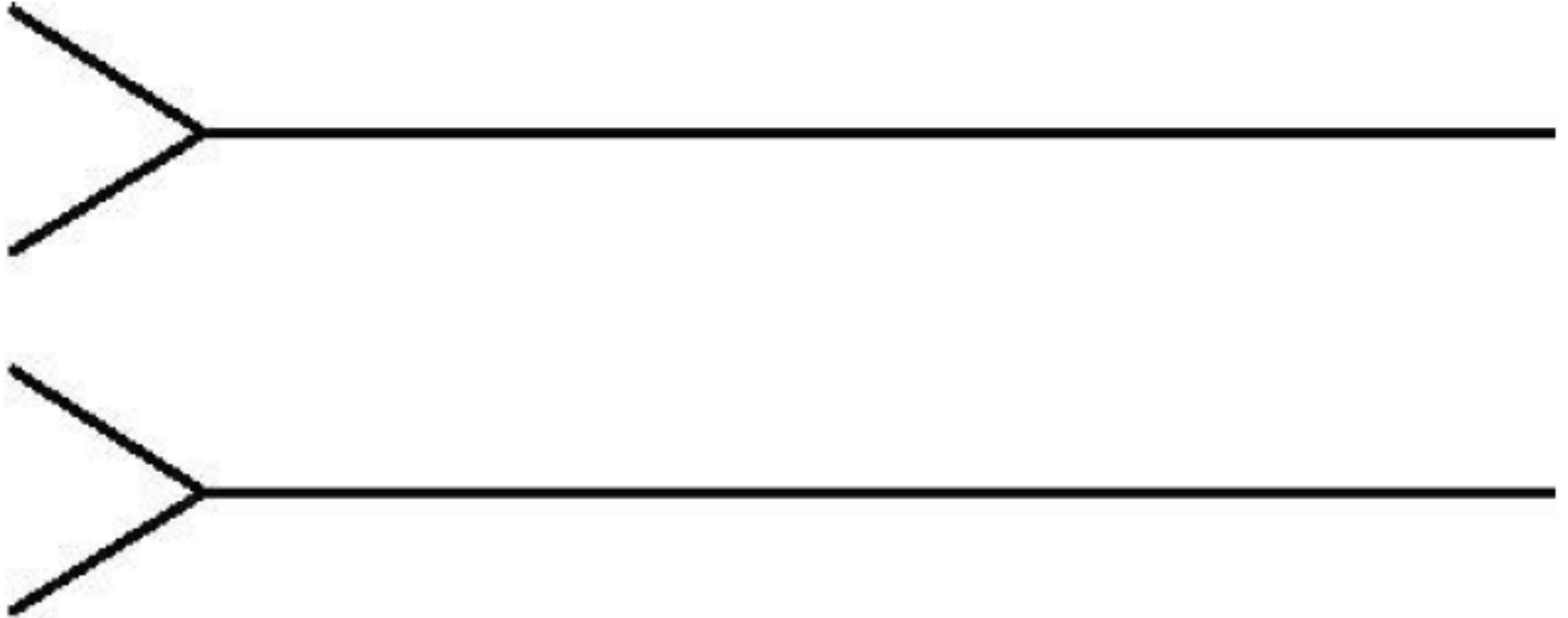


MP: Medial Pectoral, MBC = Medial Brachial Cutaneous, MABC = Medial Antebrachialcutaneous

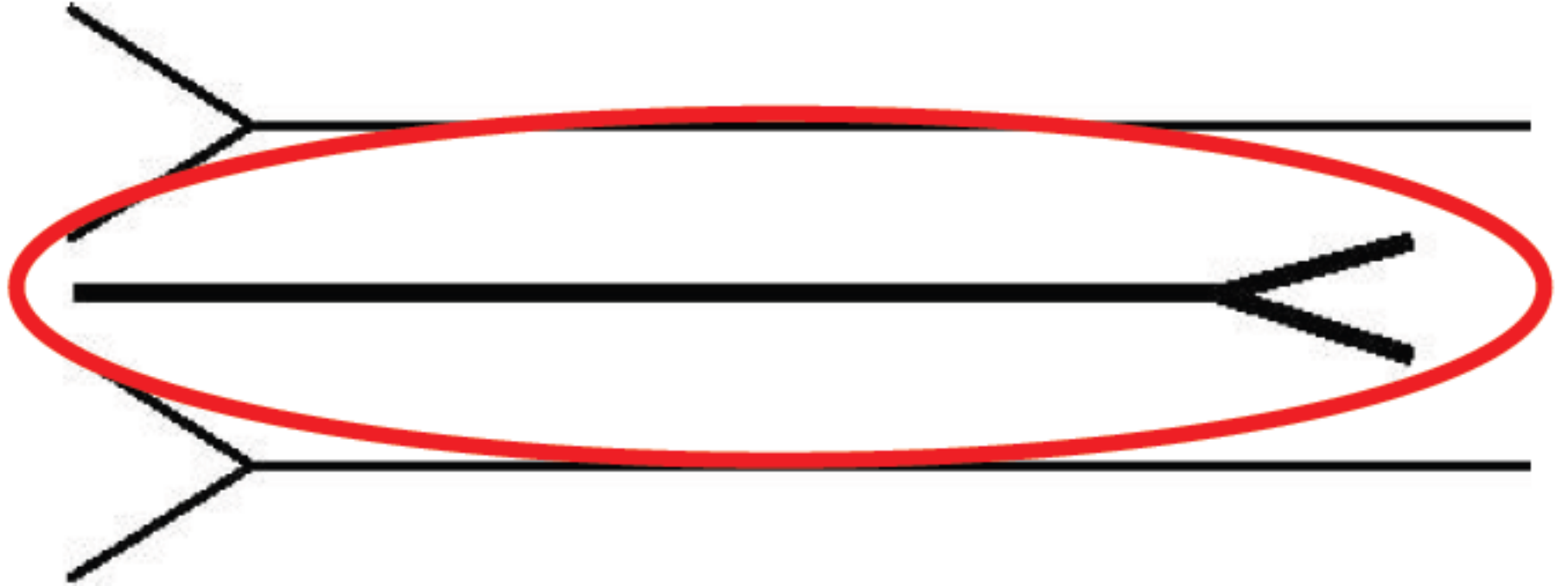




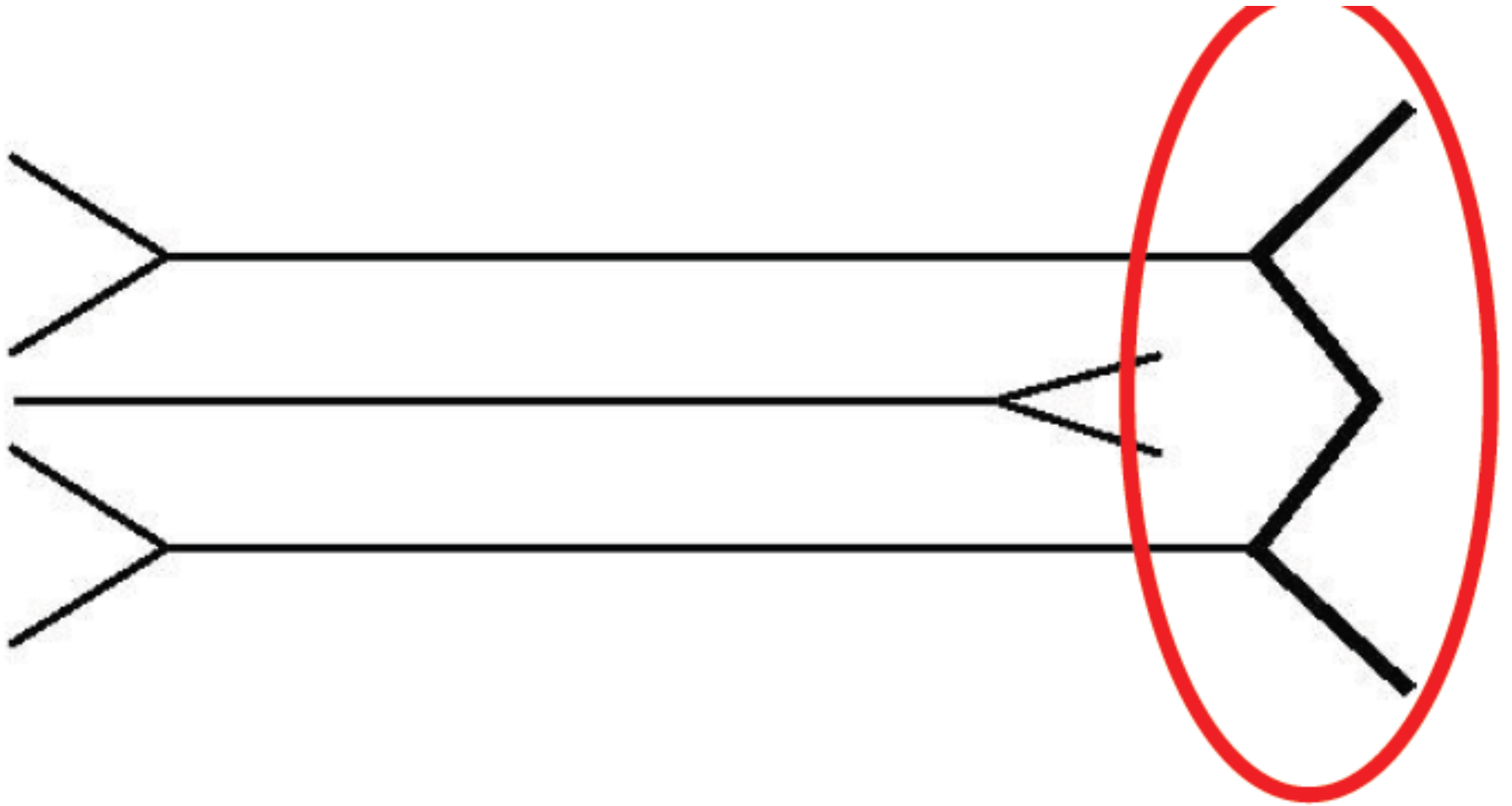




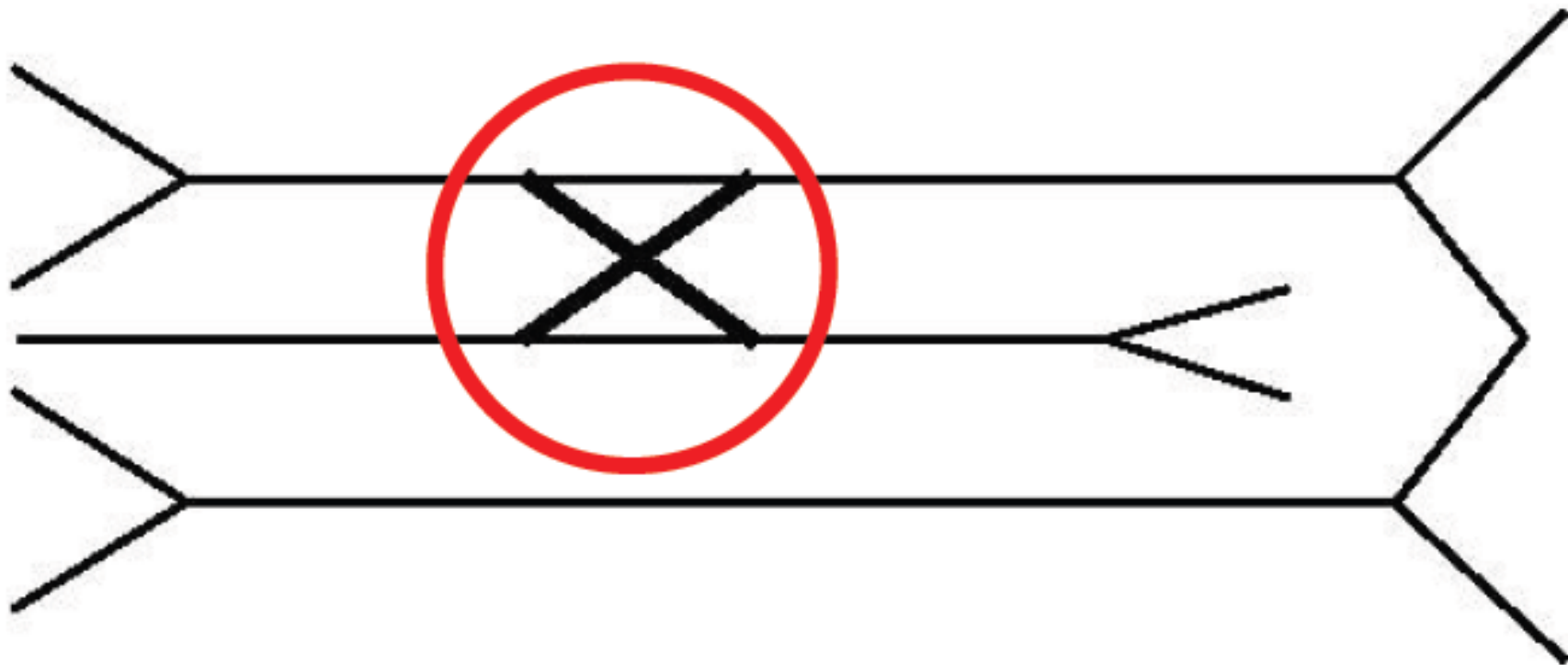
2 Headless Arrows



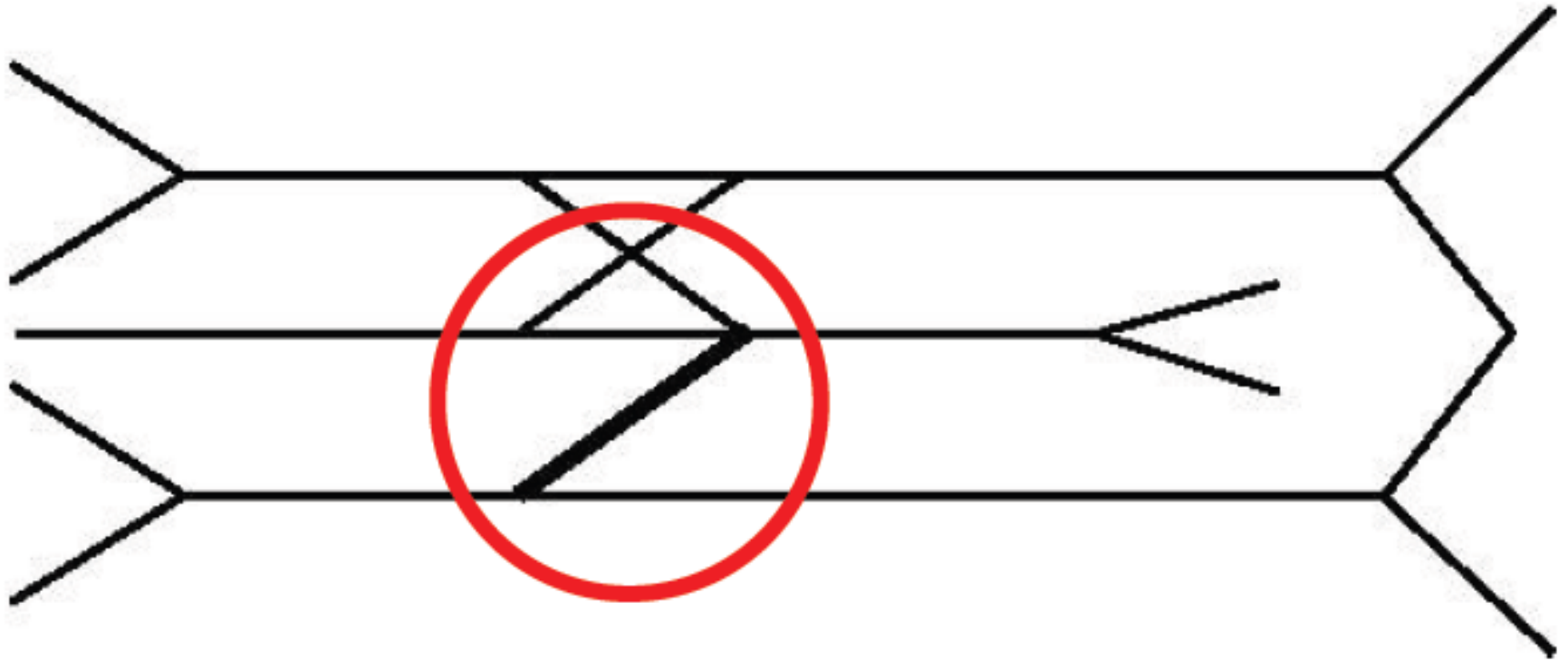
A Headless Arrow in opposite direction



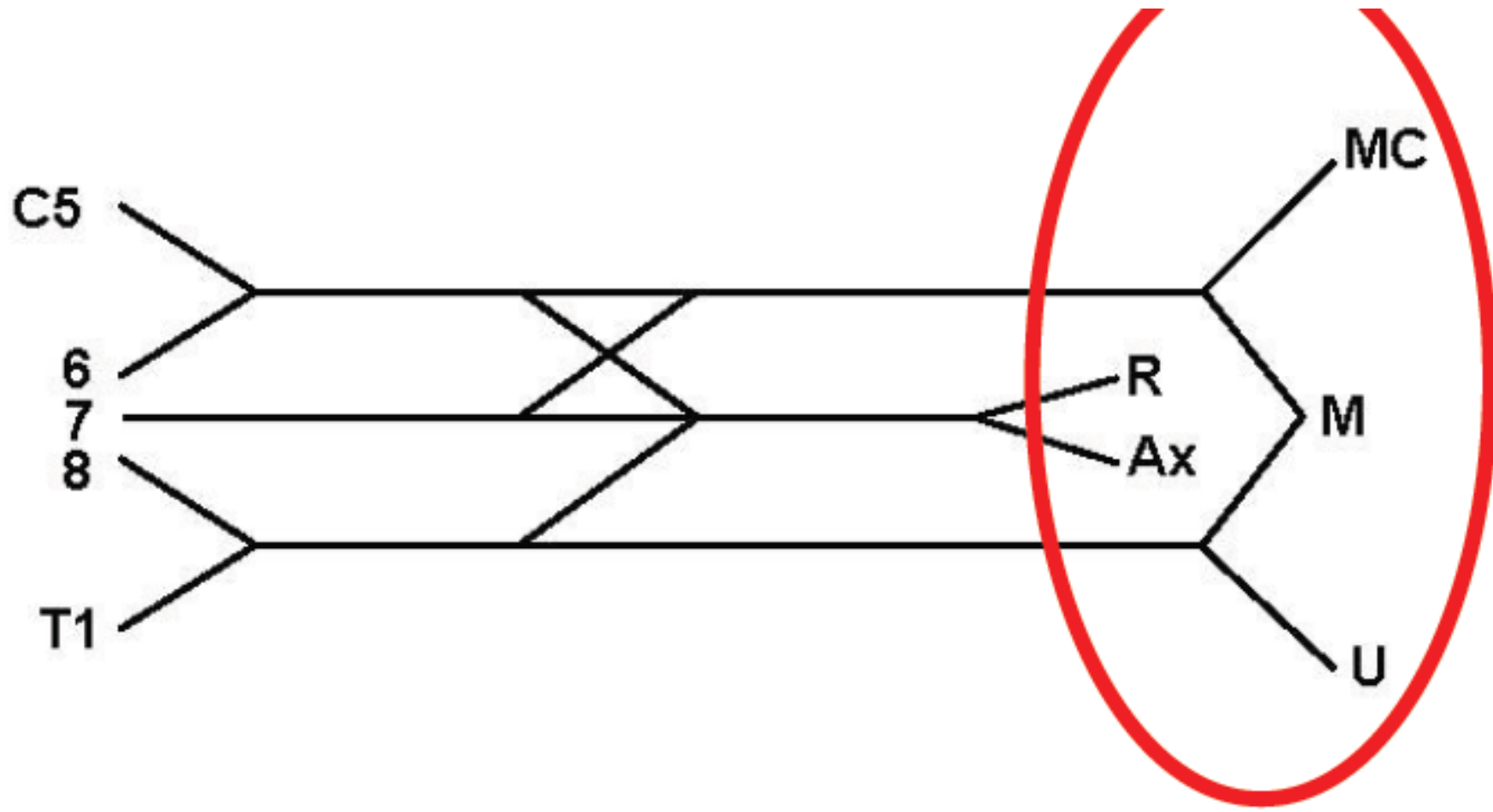
Add a 'W'

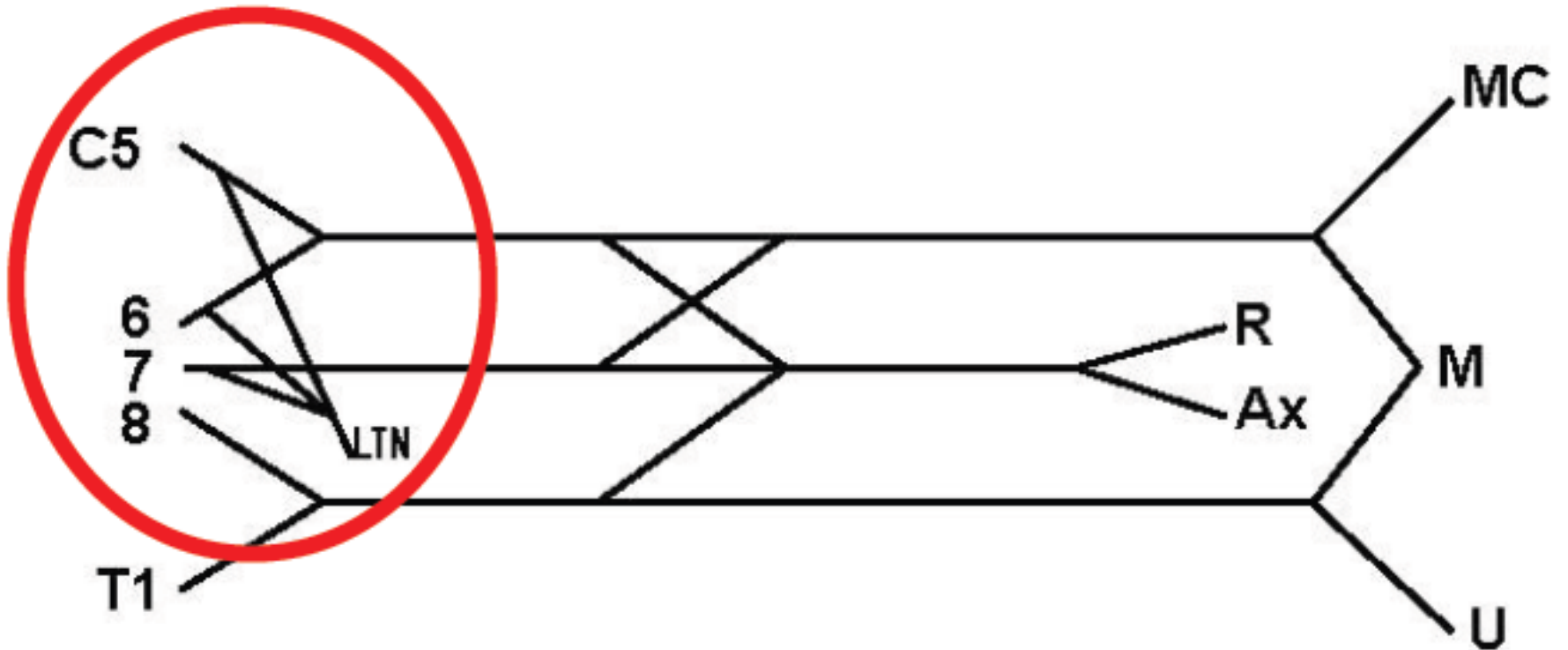


Add an 'X'

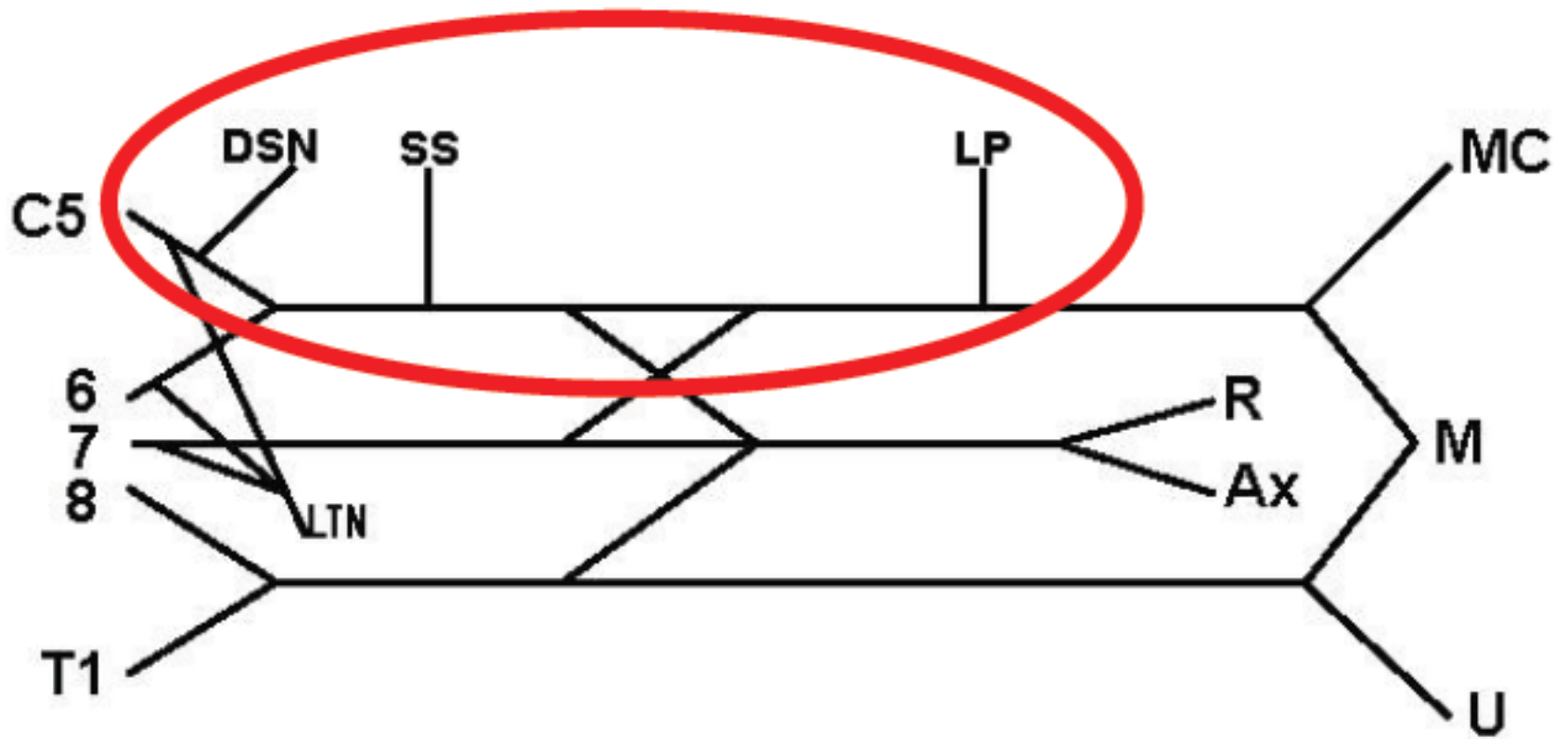


Make a 'Z'

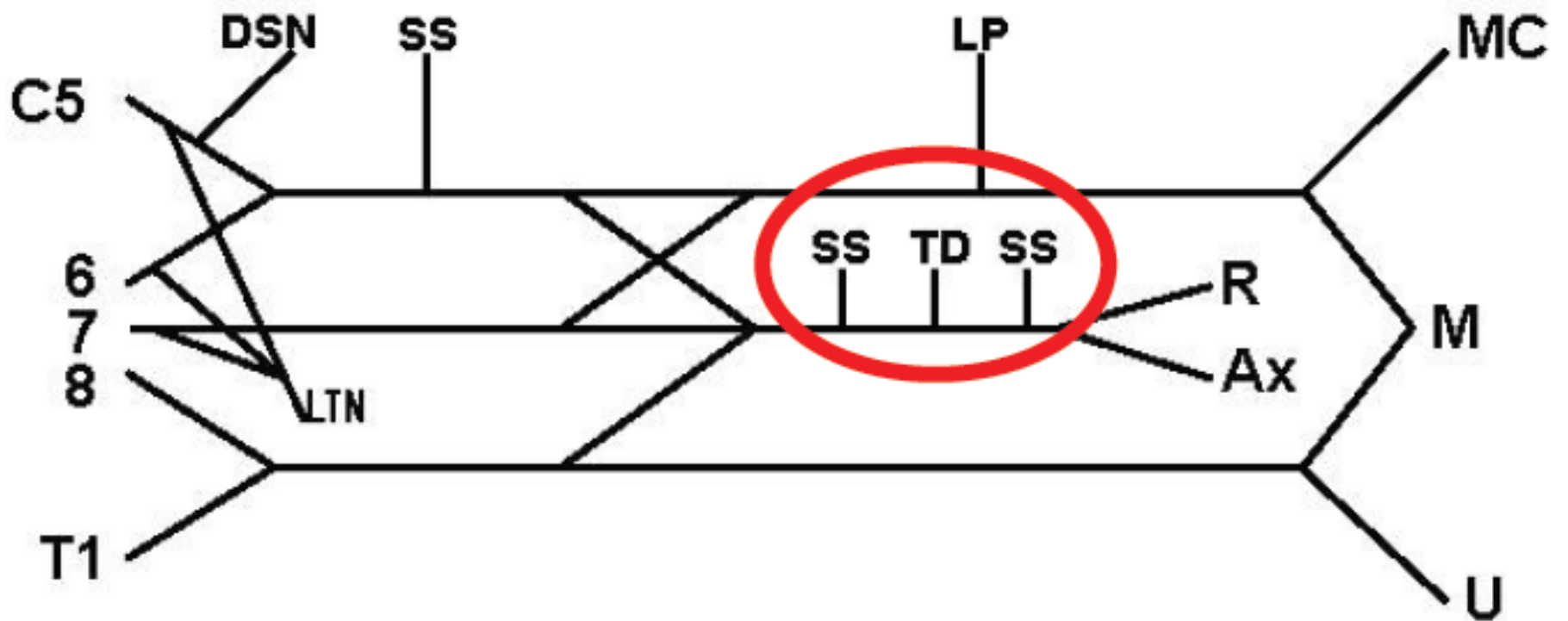




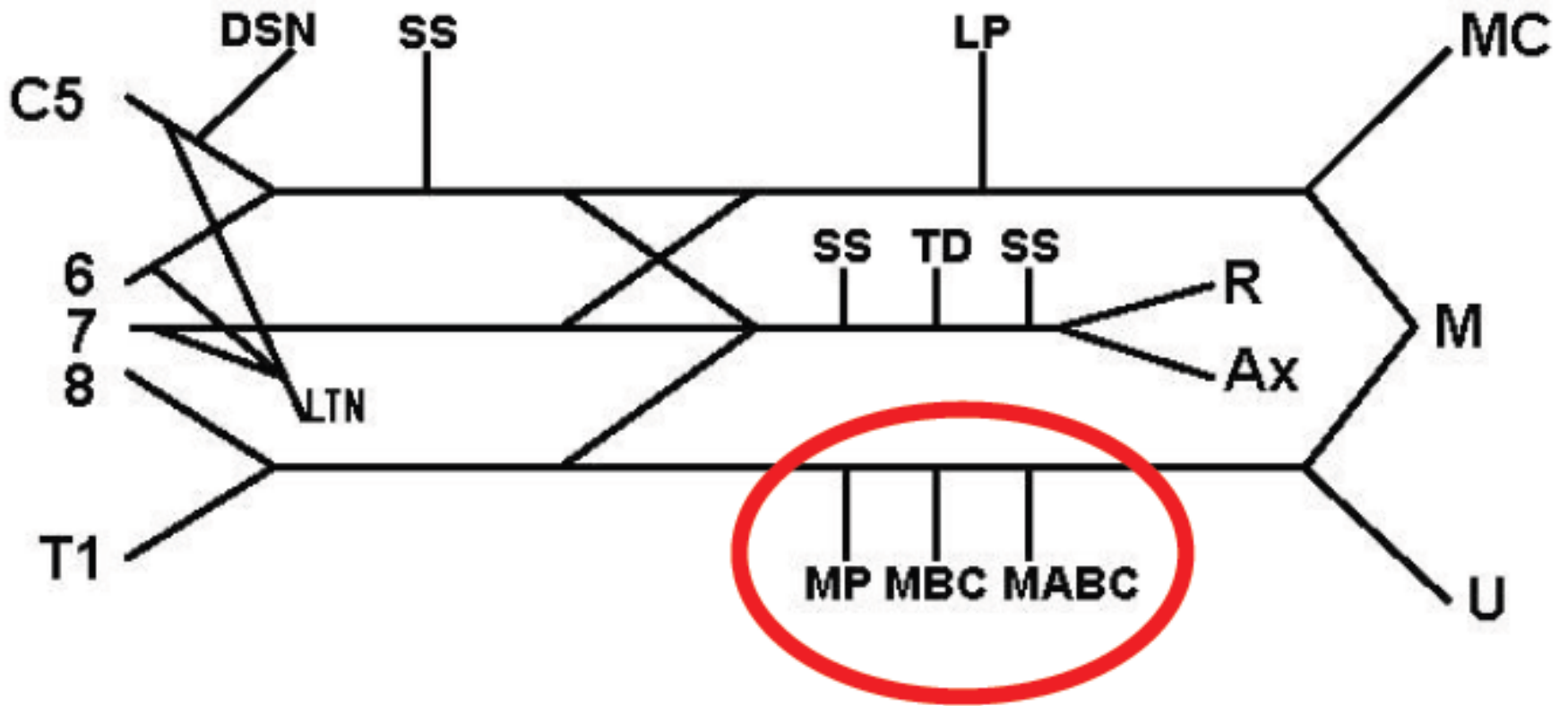
The Concept of Four 3s..



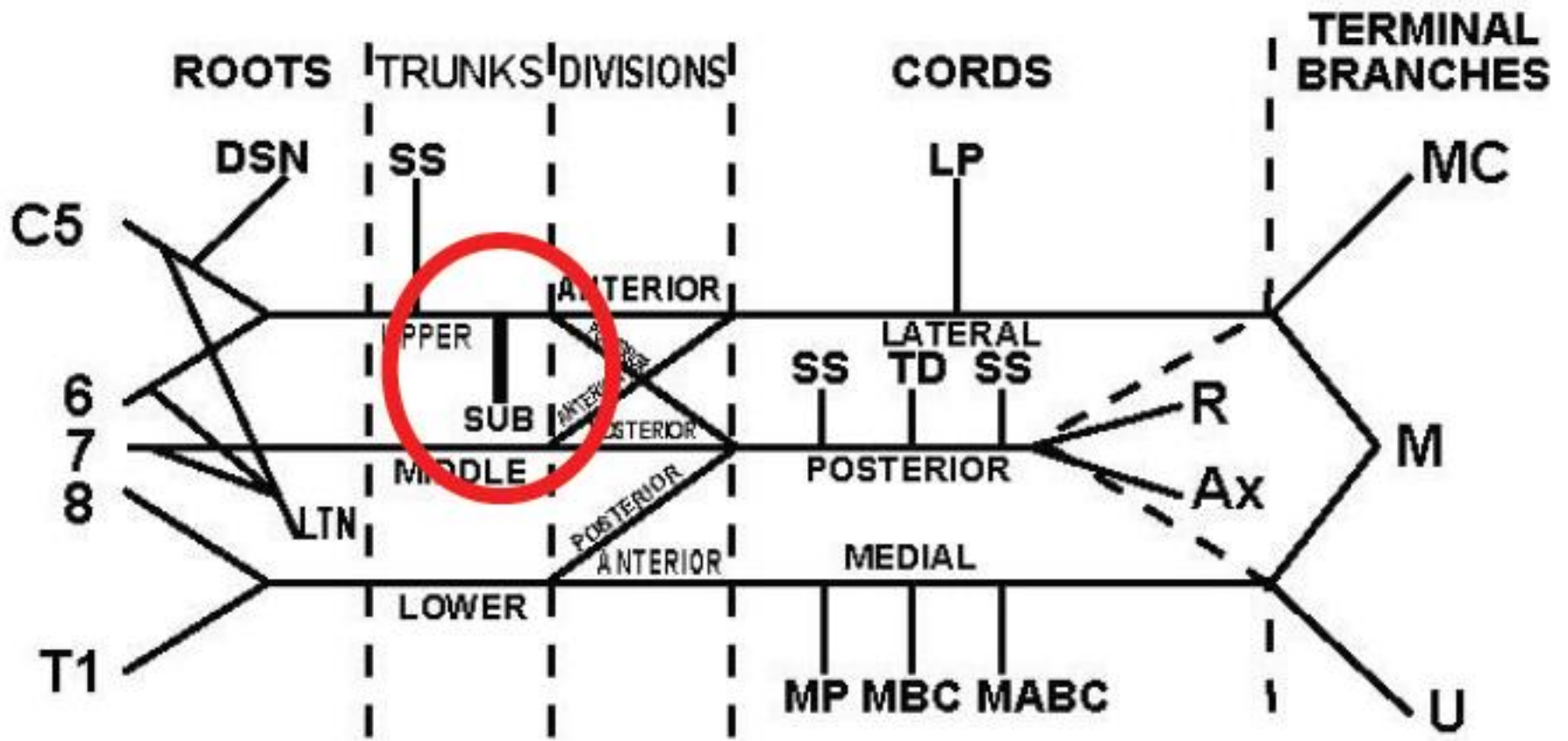
DSN : Dorsoscapular, SS :Suprascapular, LP: Lateral Pectoral Nerve

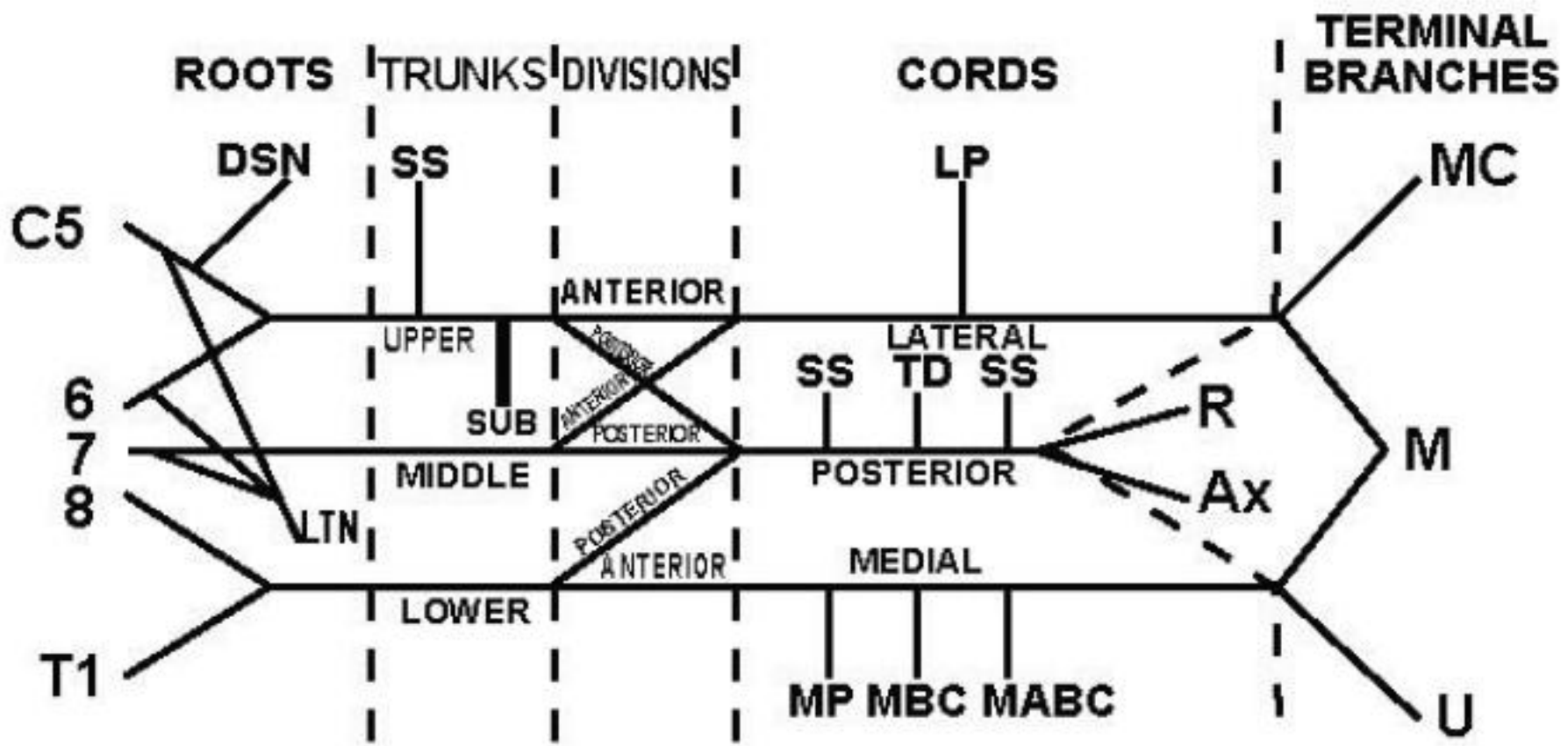


SS: Subscapular, TD: Thoracodorsal



MP: Medial Pectoral, MBC = Medial Brachial Cutaneous, MABC = Medial Antebrachialcutaneous



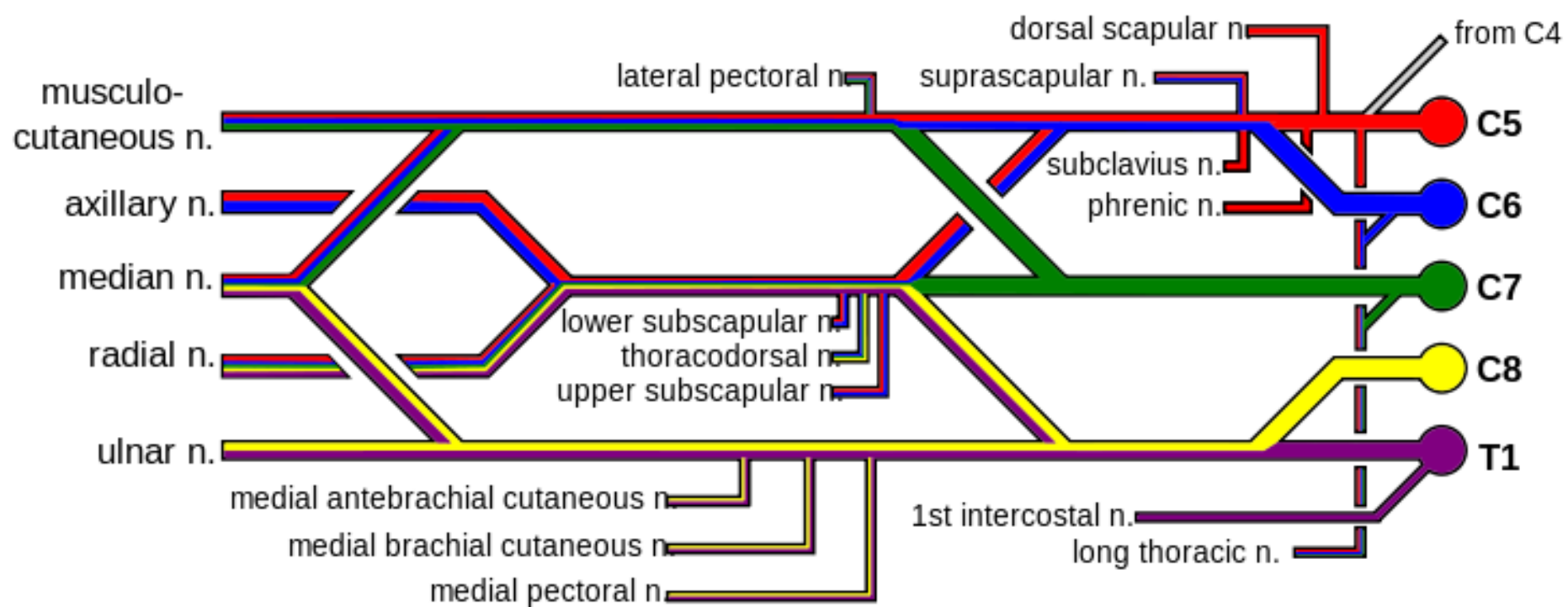


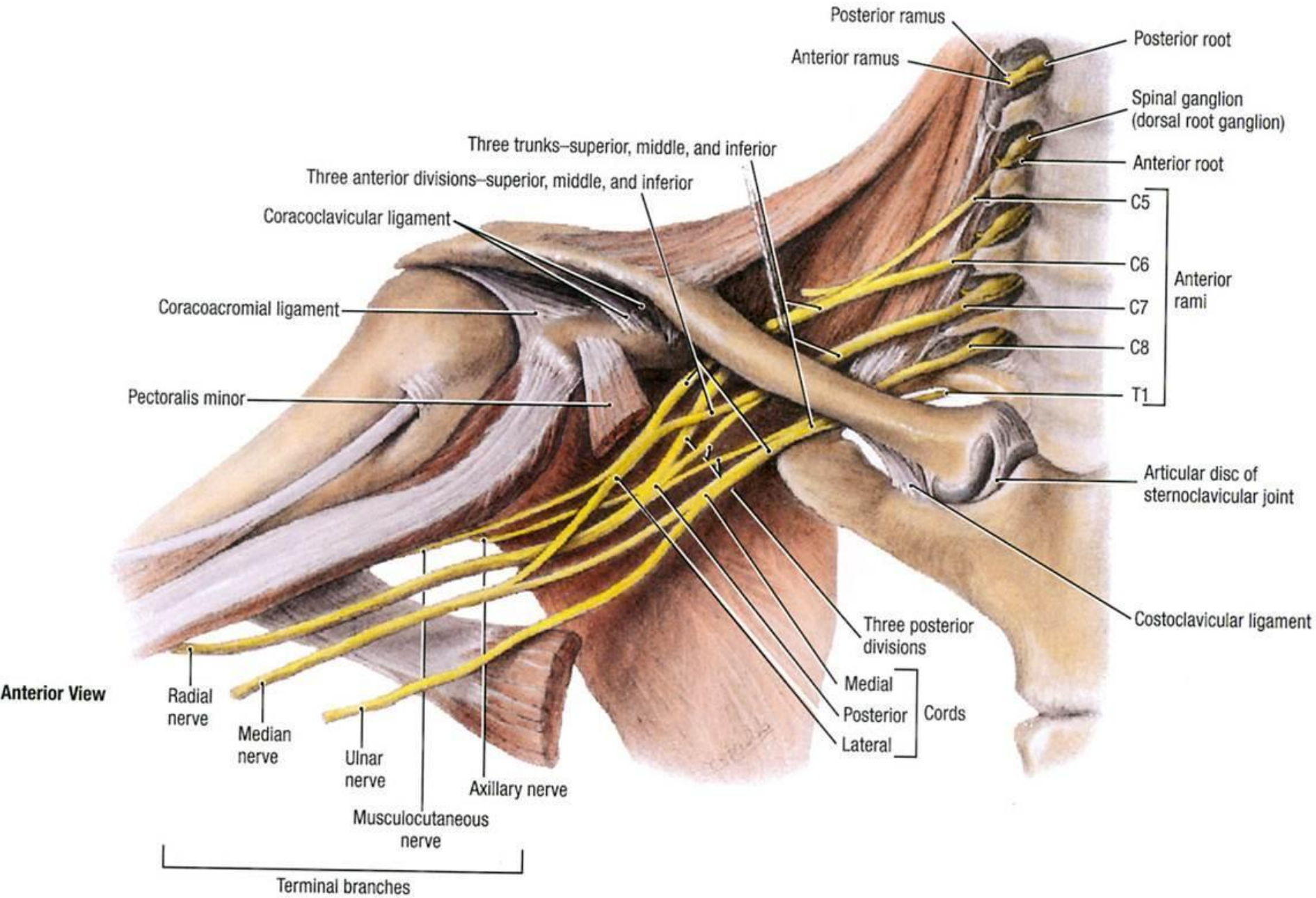
ANATOMY

- Brachial plexus supplies and receives the motor and sensory innervation of the upper extremity. Normally, it involves root C5,C6,C7,C8 &T1.

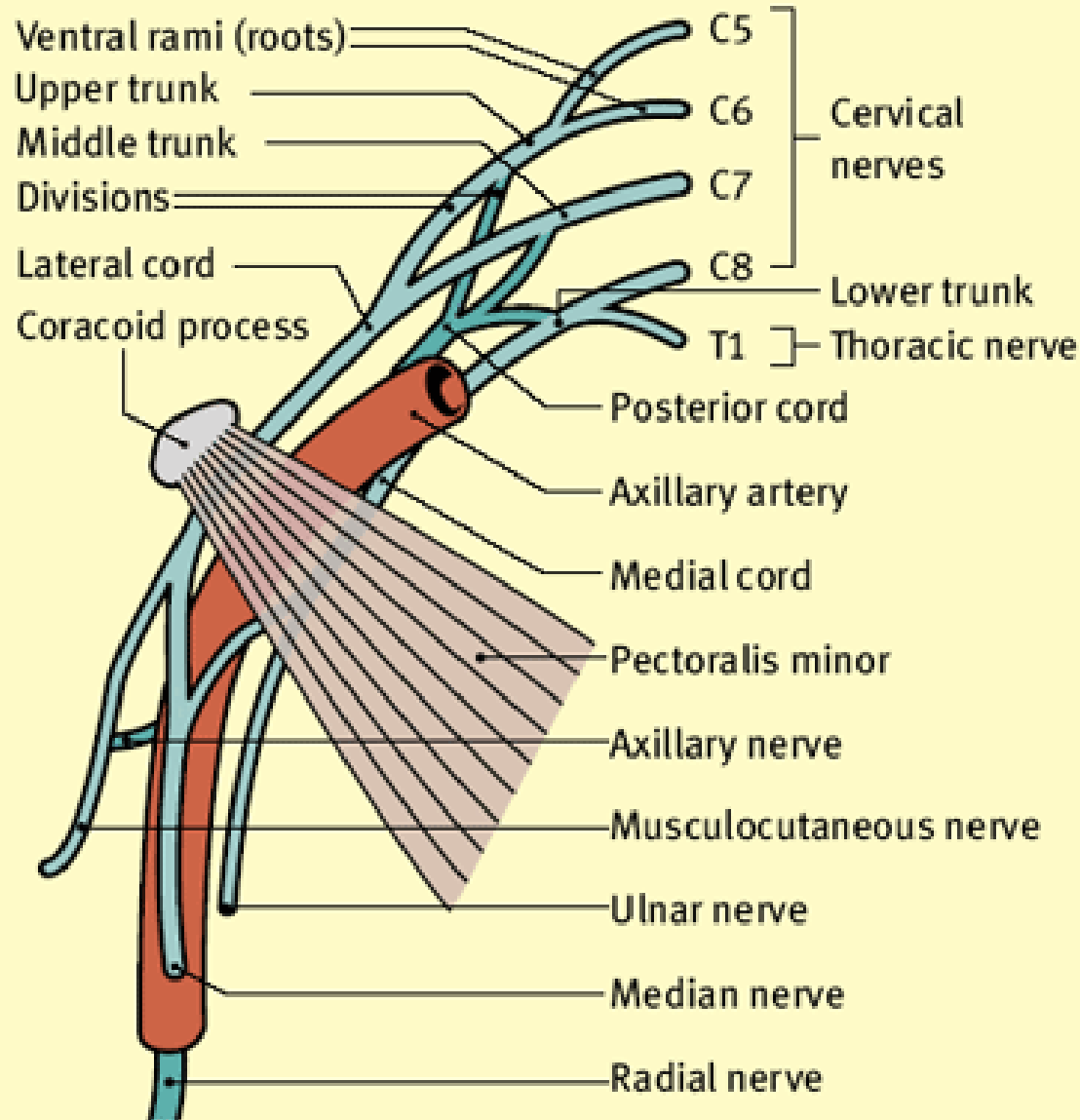
Formation

- If prefixed, it has a more vertical arrangement in the neck.
- If postfixed, it is more horizontal.

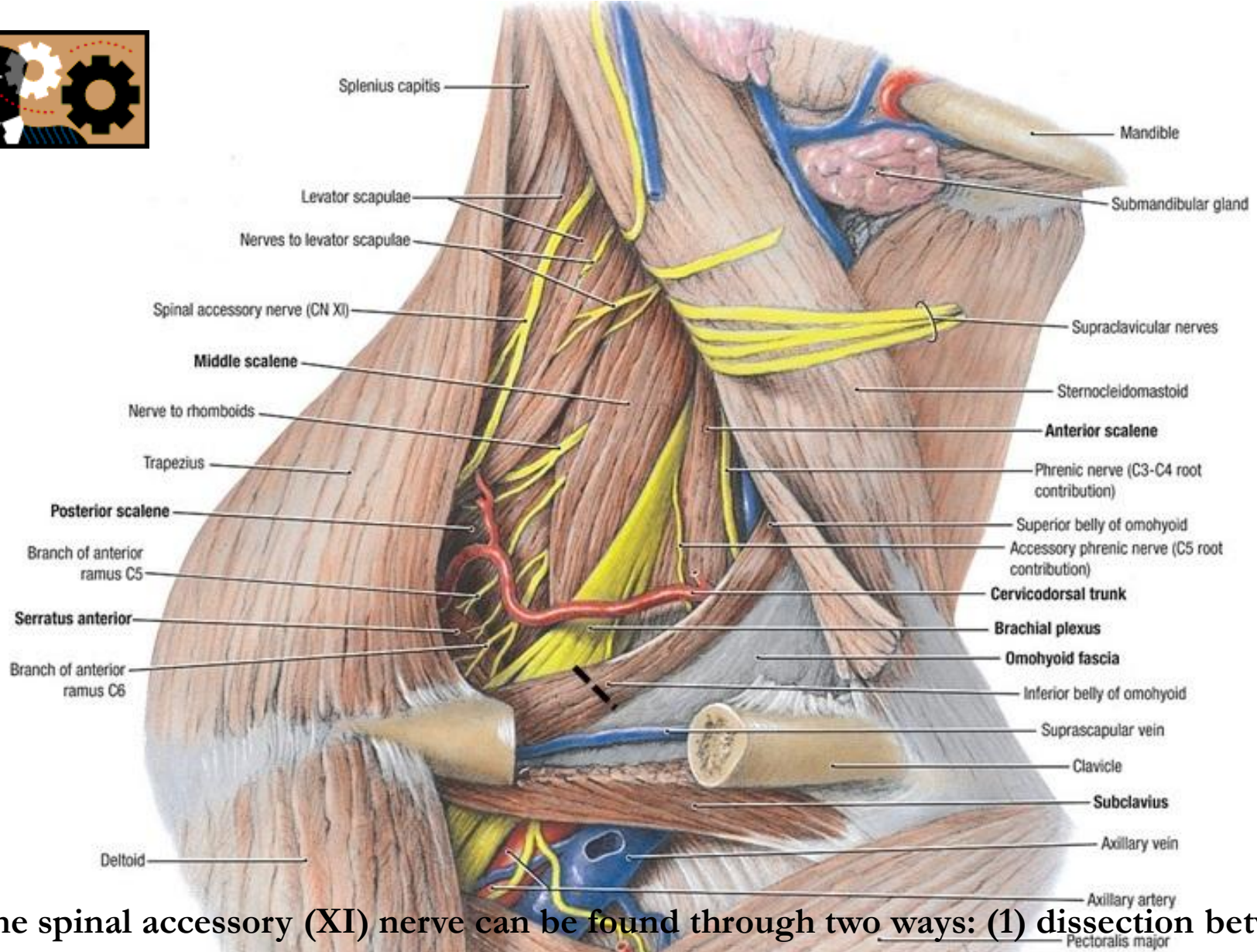
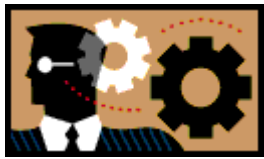




Relationship of the brachial plexus to the axillary artery

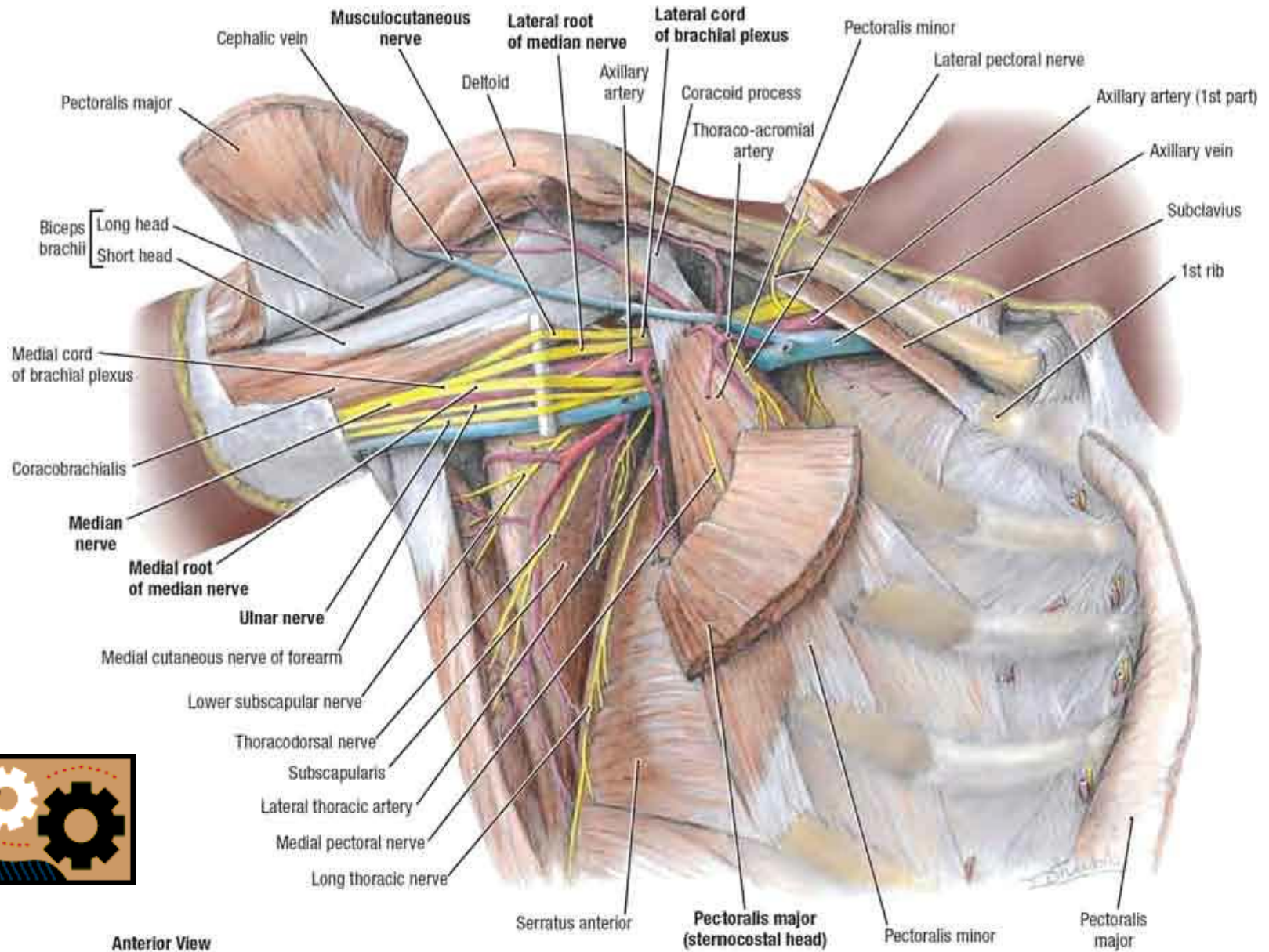


Posterior divisions and their branches dark green



The spinal accessory (XI) nerve can be found through two ways: (1) dissection between the adipofascial tissue and platysma skin flap down to the trapezius muscle. (2)

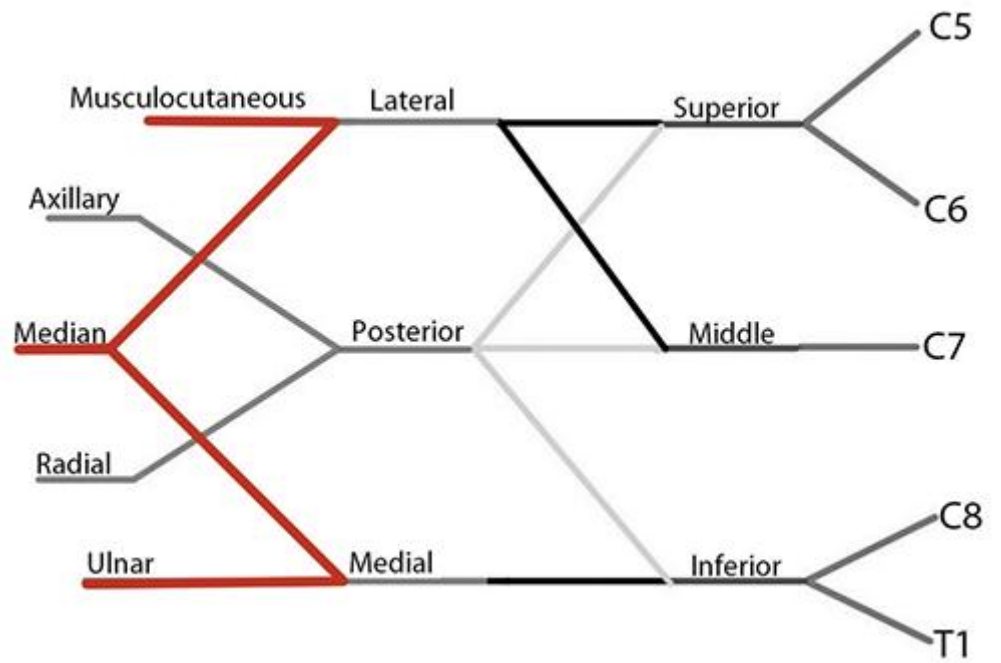
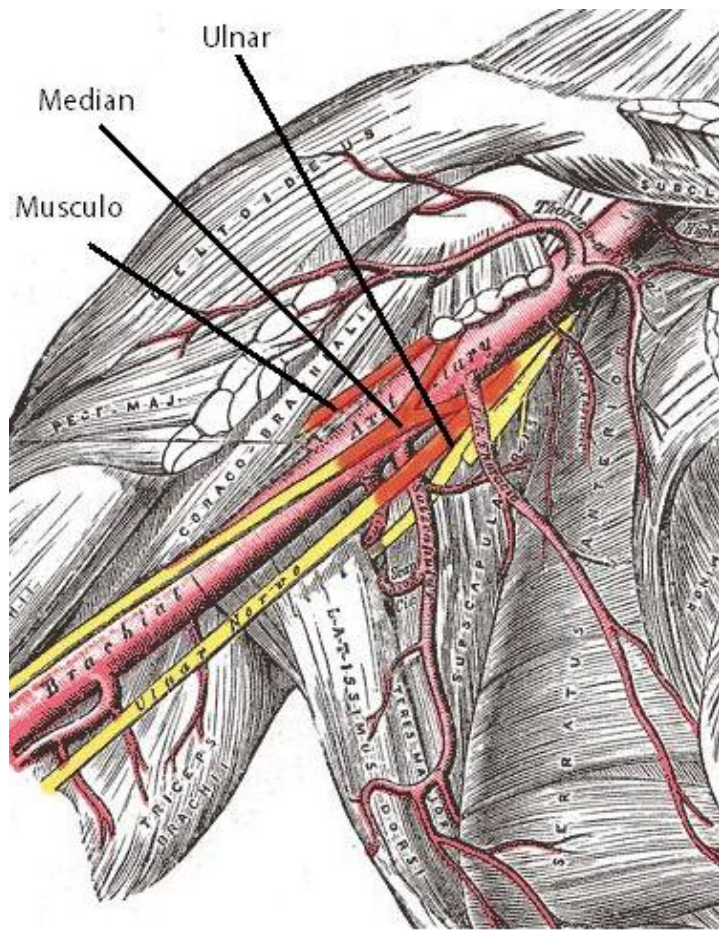
The end of the incision is made and the inferior end of the anterior flap is cut. The greater transverse fibers of the XI nerve will be seen with the great inferior vessels deep to above the great transverse muscle, and beneath the sternocleidomastoid muscle.

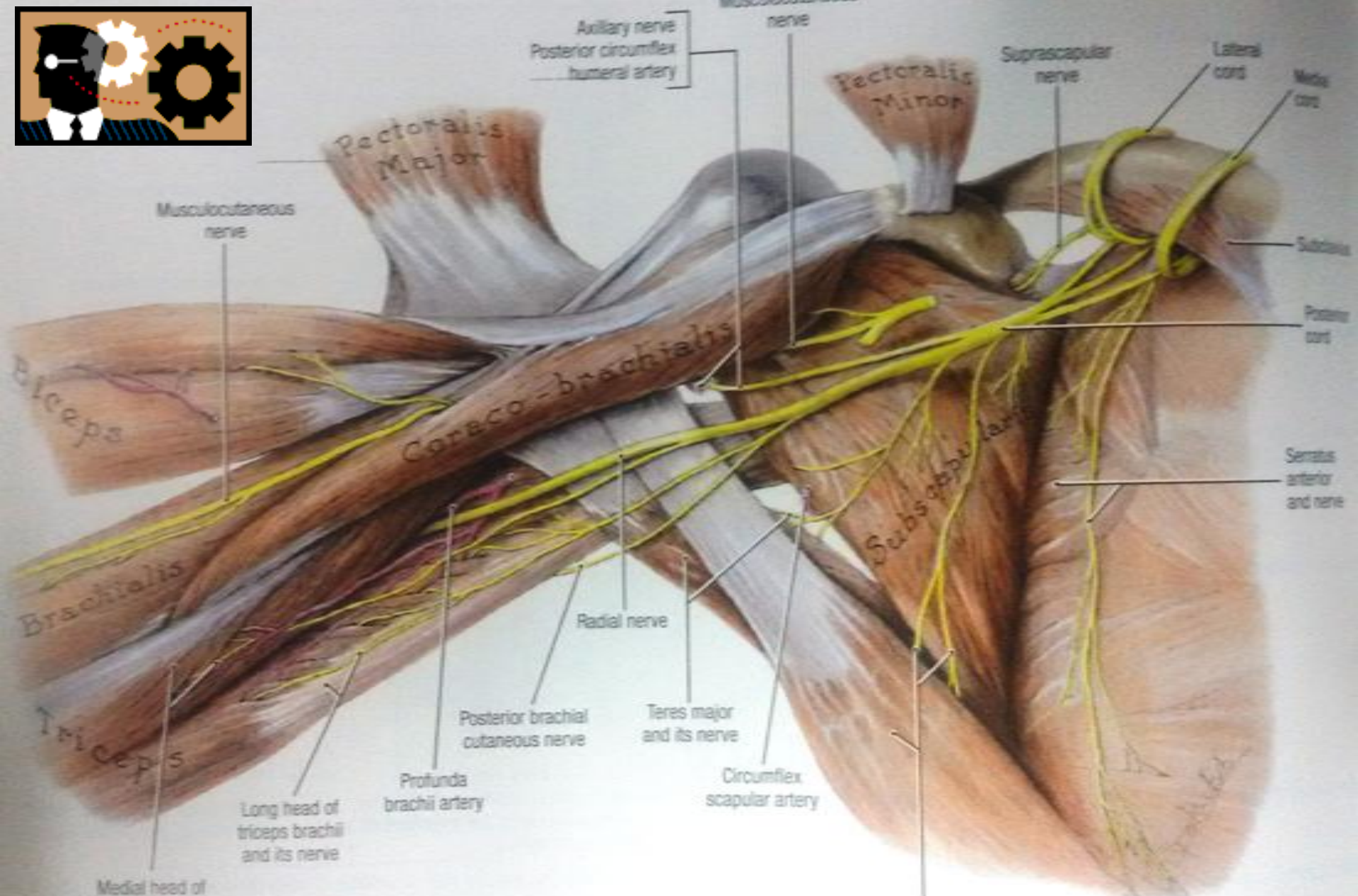


Anterior View

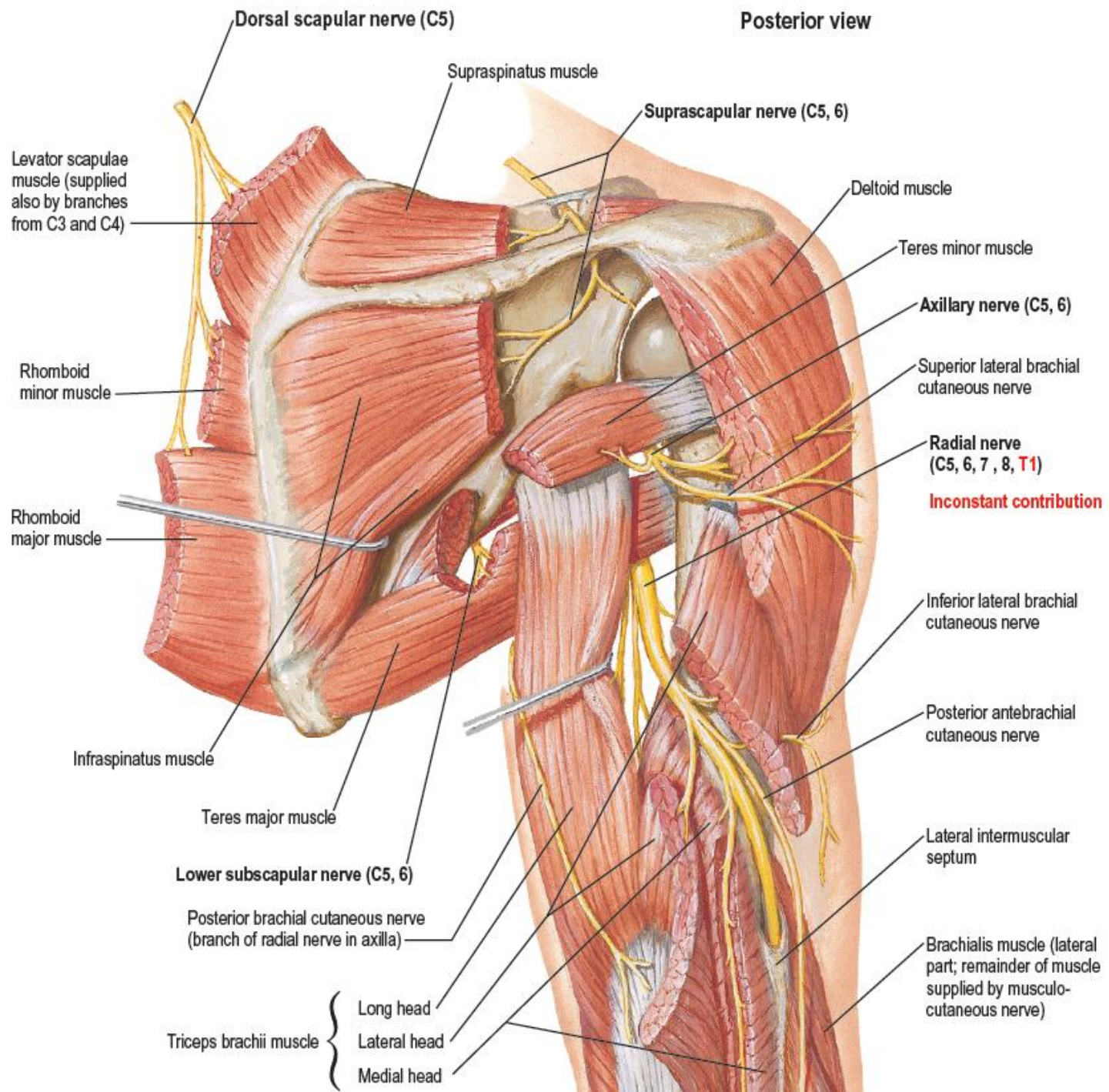


Y-shaped cords from lateral and medial cords proximal to pectoralis minor muscle. The subclavian artery can be easily found between the Y-shaped limbs





In the upper arm, the musculocutaneous nerve can usually be found between the biceps and the coracobrachialis muscles. The musculocutaneous nerve will penetrate the proximal portion of the coracobrachialis muscle, and the radial nerve, and the deep branch of the lateral circumflex humeral artery.



Dorsal scapular nerve (C5)

Posterior view

Supraspinatus muscle

Suprascapular nerve (C5, 6)

Levator scapulae muscle (supplied also by branches from C3 and C4)

Deltoid muscle

Teres minor muscle

Axillary nerve (C5, 6)

Rhomboid minor muscle

Superior lateral brachial cutaneous nerve

Radial nerve (C5, 6, 7, 8, T1)

Inconstant contribution

Rhomboid major muscle

Inferior lateral brachial cutaneous nerve

Posterior antebrachial cutaneous nerve

Infraspinatus muscle

Teres major muscle

Lateral intermuscular septum

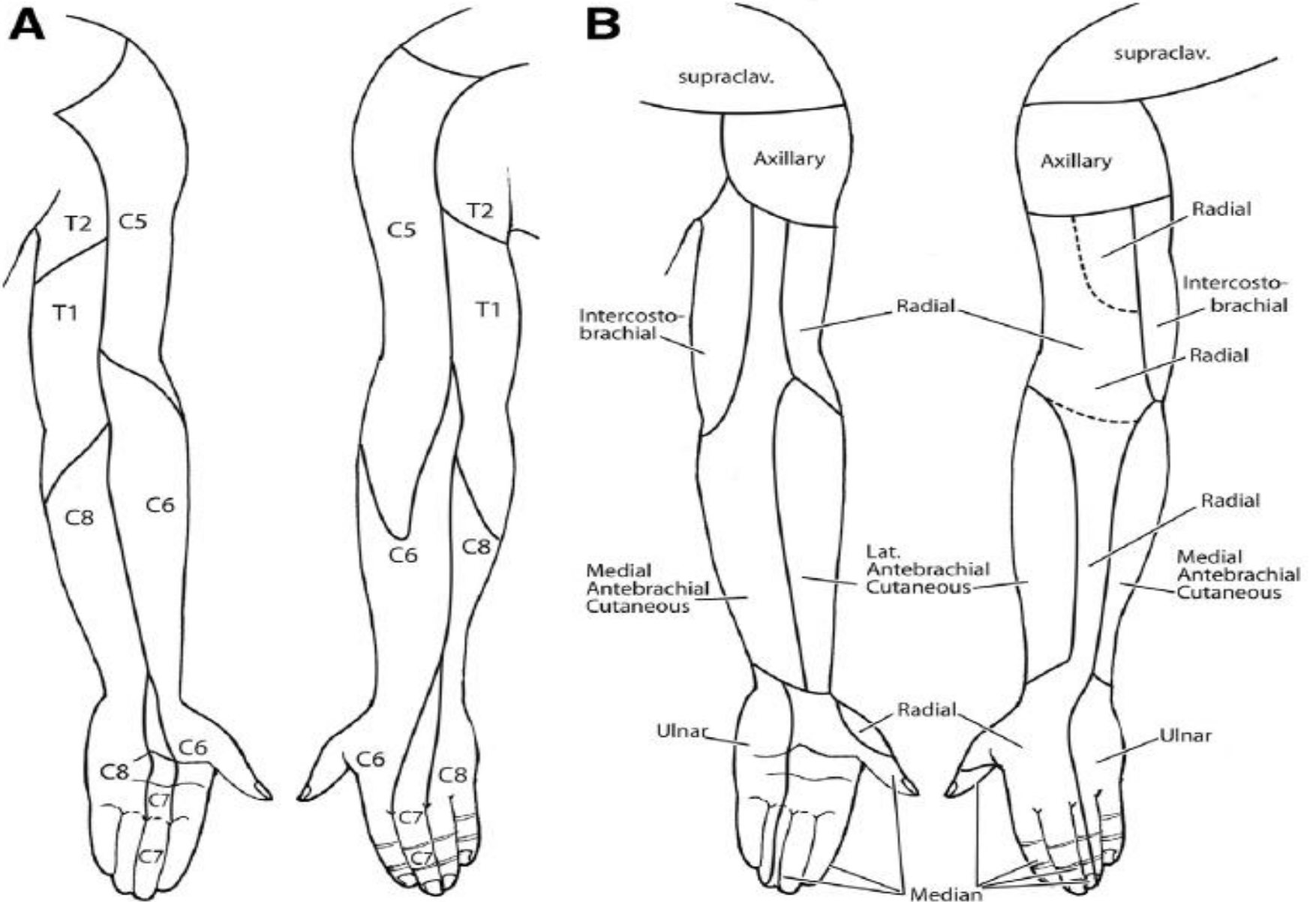
Lower subscapular nerve (C5, 6)

Posterior brachial cutaneous nerve (branch of radial nerve in axilla)

Brachialis muscle (lateral part; remainder of muscle supplied by musculocutaneous nerve)

Triceps brachii muscle {
 Long head
 Lateral head
 Medial head

Dermatomes and Myotomes



Brachial Plexus Branches & Muscular Innervations

Dorsal Scapular N.

- Levator Scapulae
- Rhomboid Major/Minor

Suprascapular N.

- Infraspinatus
- Supraspinatus

Lateral Pectoral N.

- Pectoralis Major/Minor

Musculocutaneous N.

- Biceps Brachii
- Brachialis
- Coracobrachialis

Brachial Plexus Branches & Muscular Innervations

Axillary N.

- Deltoid
- Teres Minor

Upper Subscapular N.

- Subscapularis

Middle Subscapular or Thoracodorsal N.

- Latissimus Dorsi

Lower Subscapular N.

- Subscapularis
- Teres Major

Brachial Plexus Branches & Muscular Innervations

Long Thoracic N.

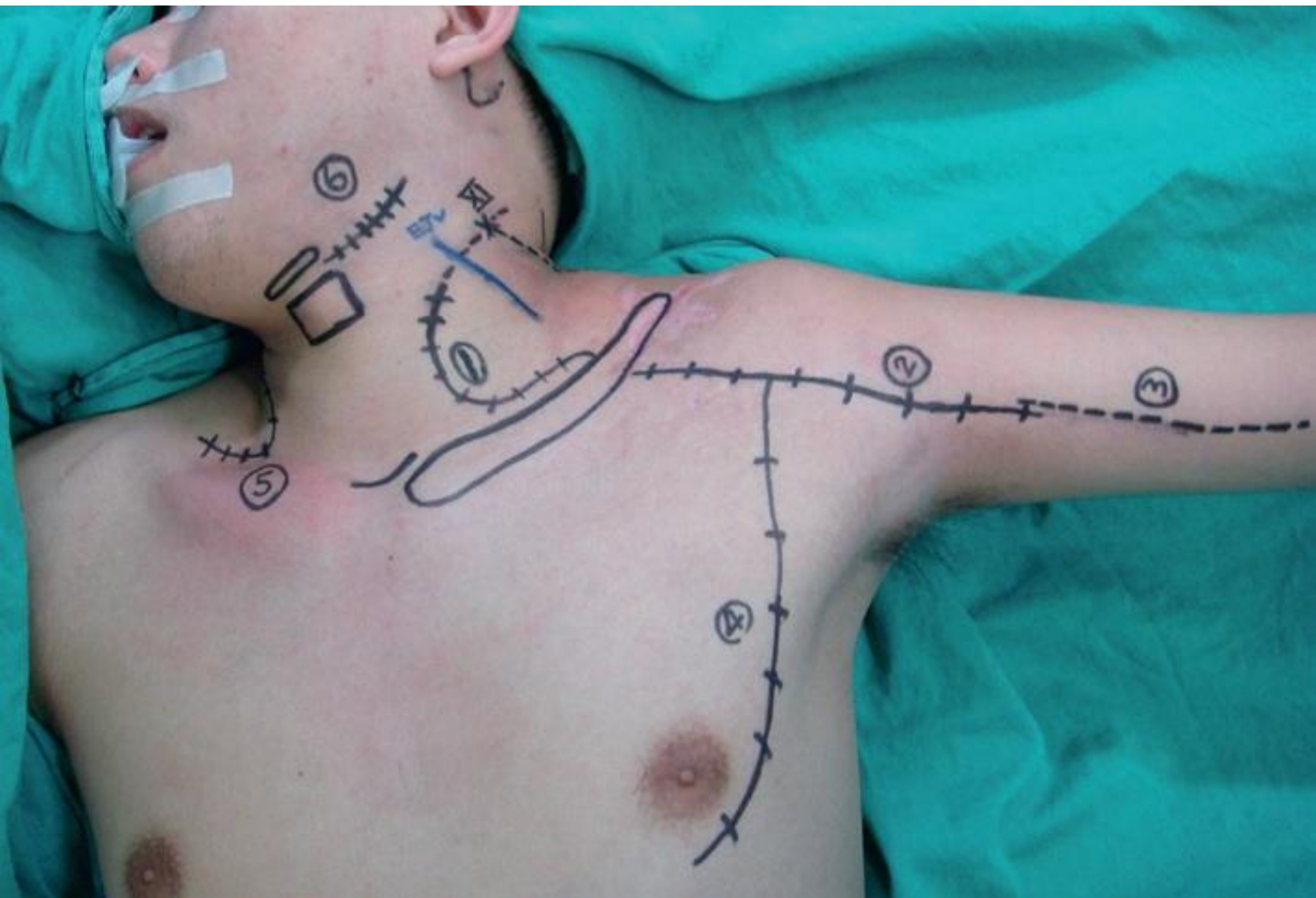
- Serratus Anterior

Medial Pectoral N.

- Pectoralis Major

Medial Brachial Cutaneous N. (sensory)

Medial Antebrachial Cutaneous N. (sensory)



obrigado

Dank U

Merci

mahalo

Köszi

спасибо

Grazie

Thank
you

mauruuru

Takk

Gracias

Dziękuję

Děkuju

danke

Kiitos