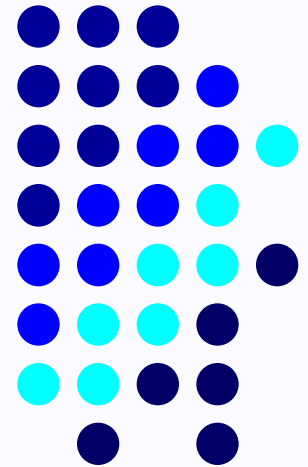
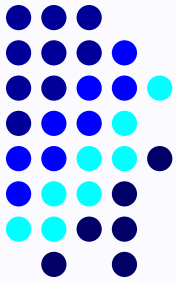
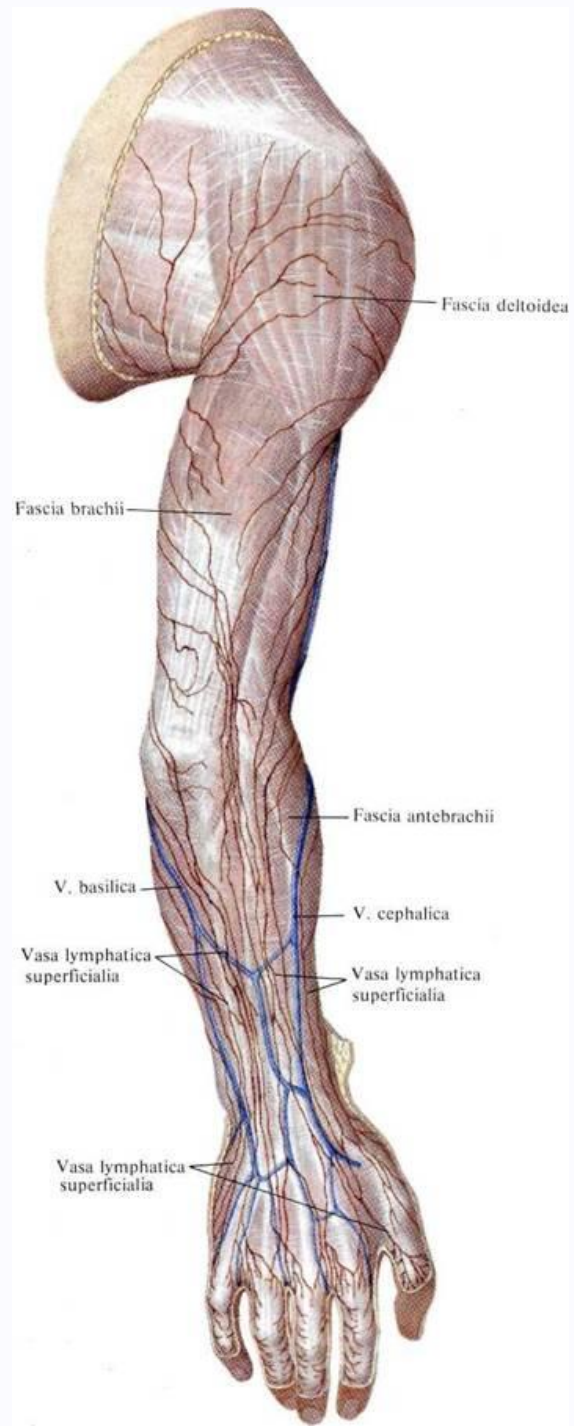
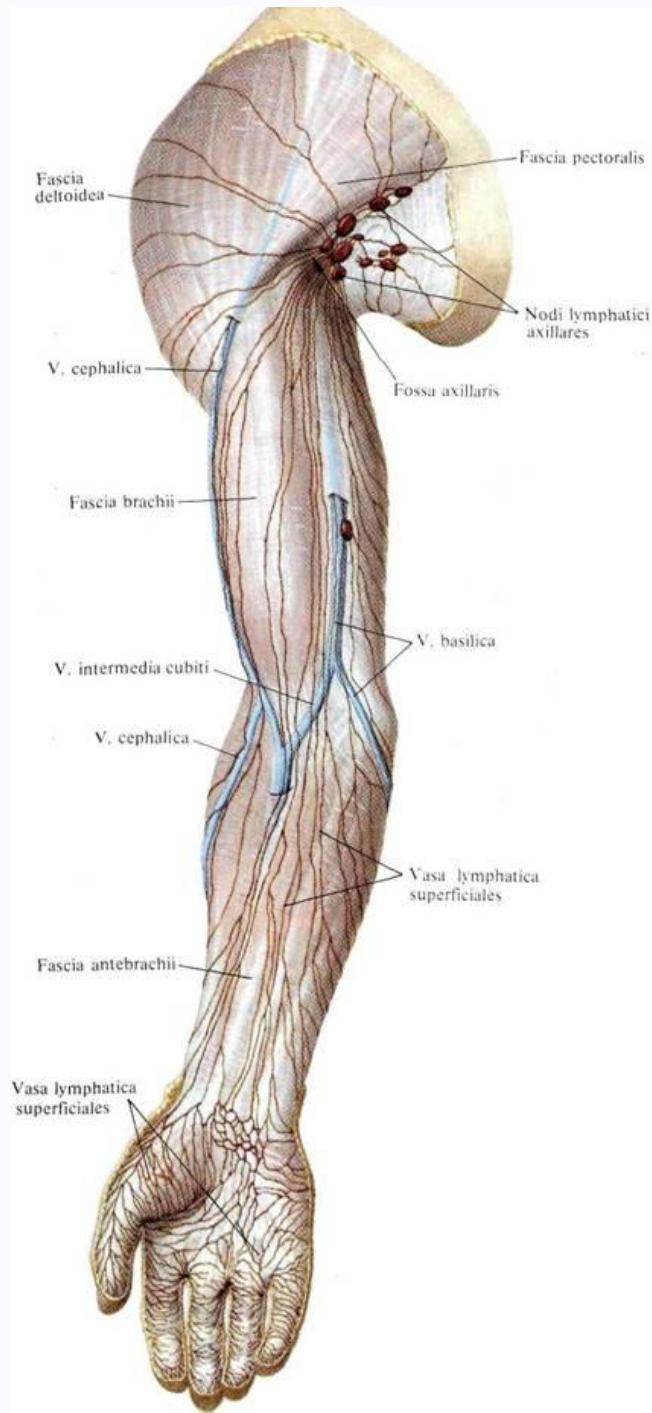


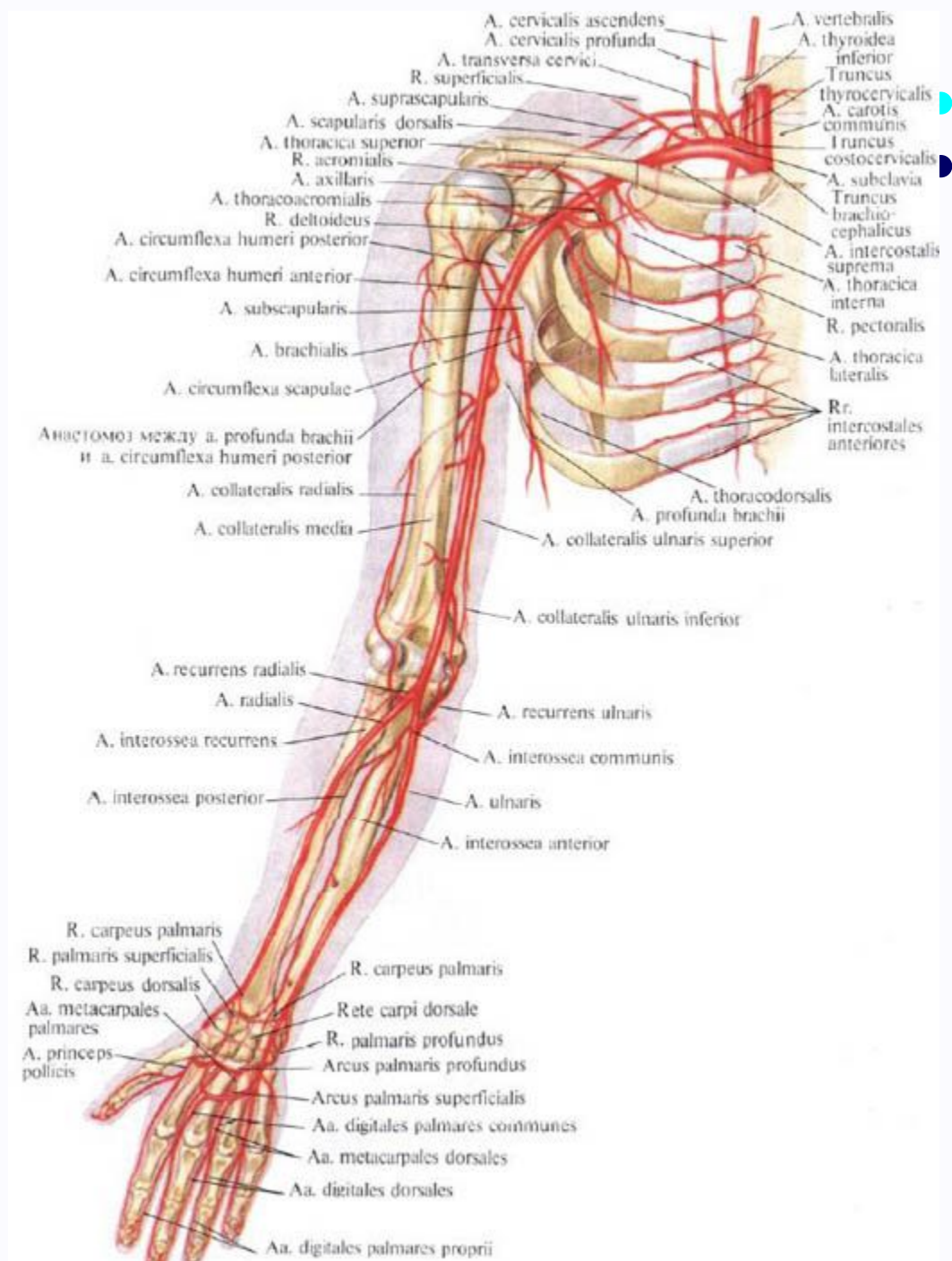
# Clinical anatomy of the upper limb

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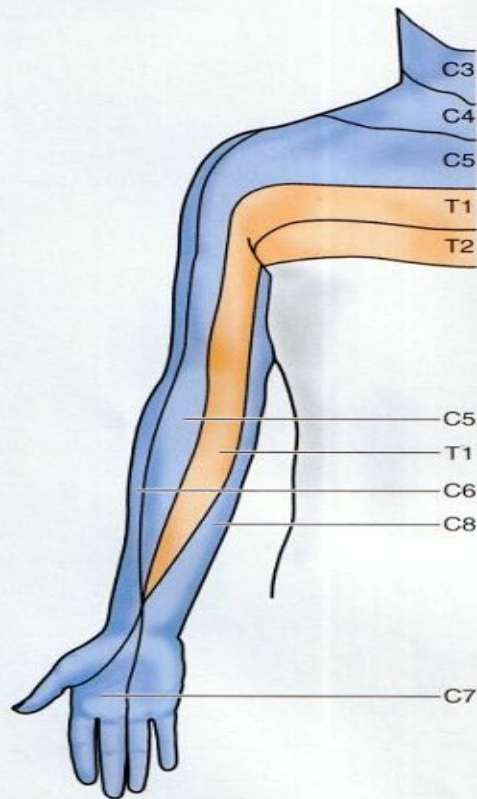
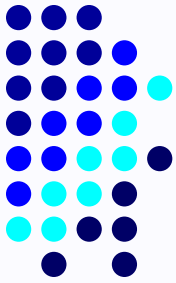




# Arteries of the upper limb

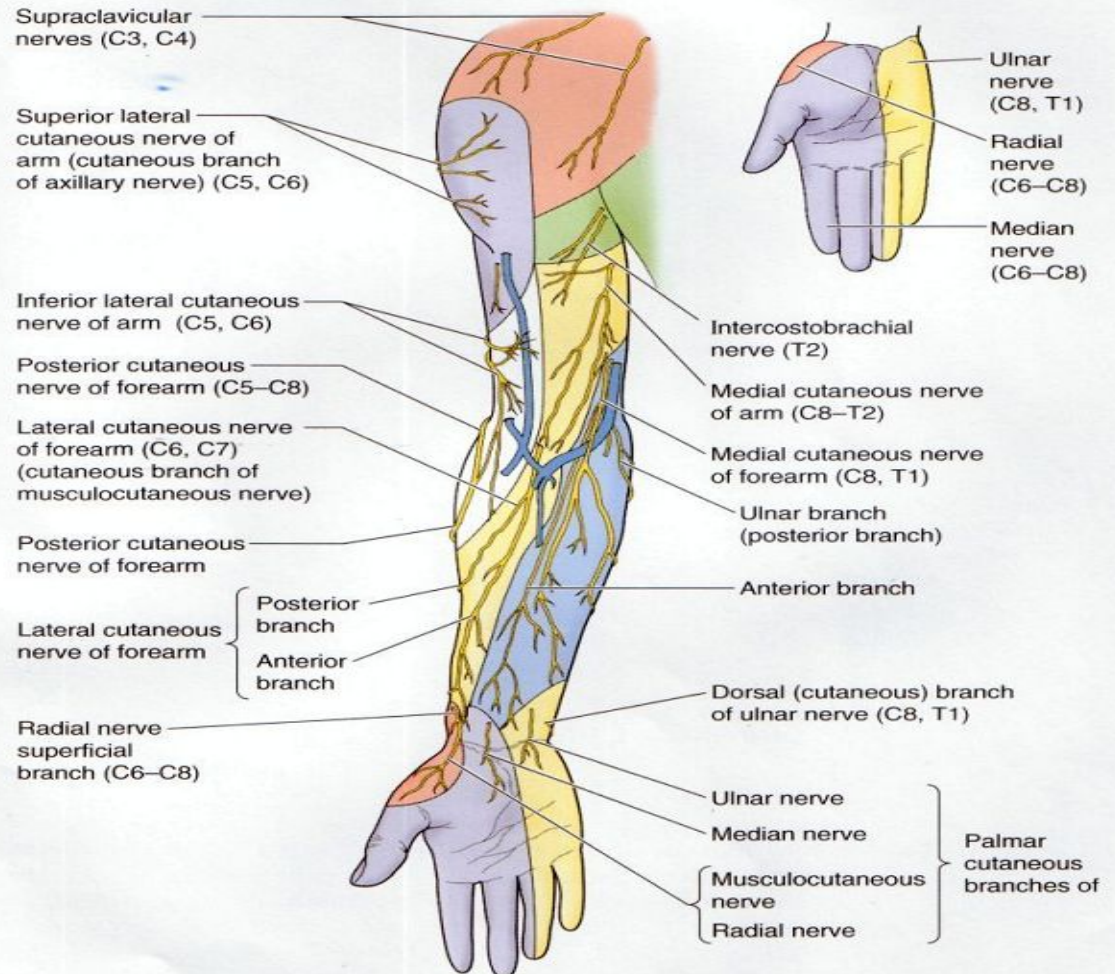


# Skin innervations



**Segmental innervation of skin (dermatomes)**

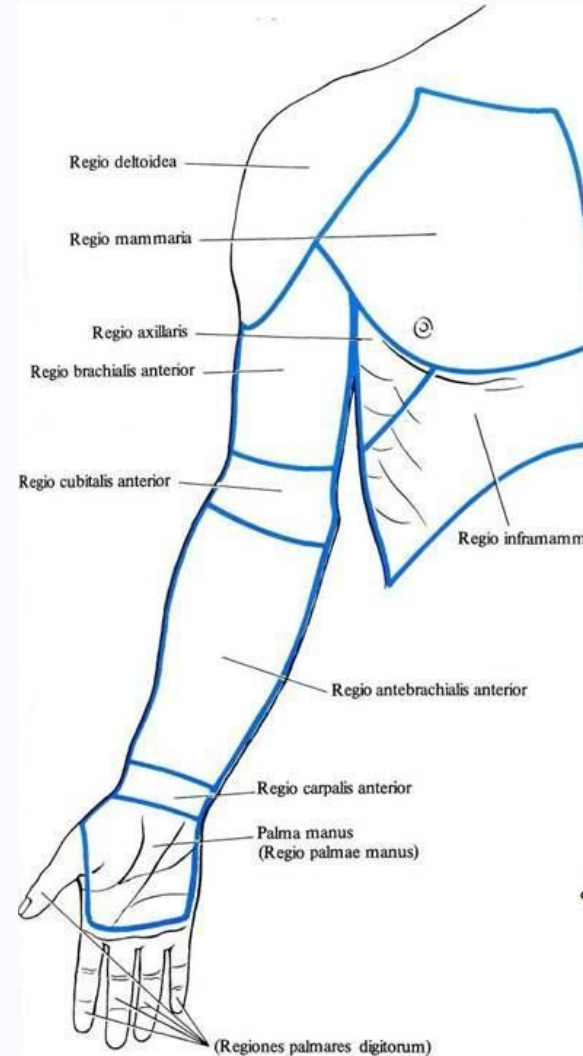
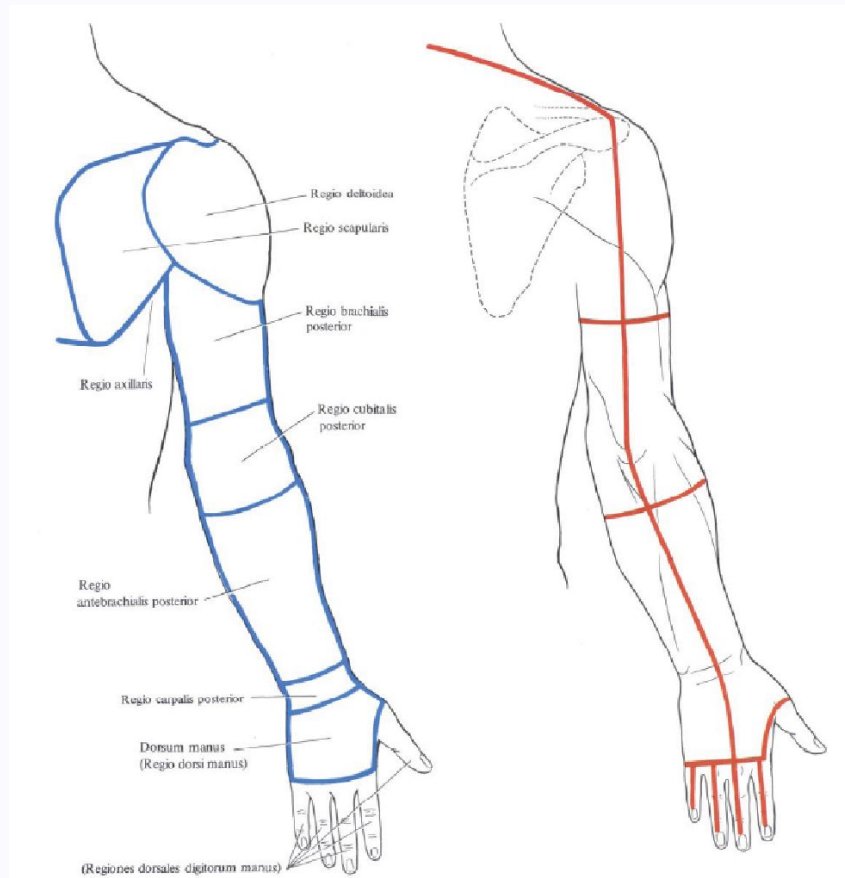
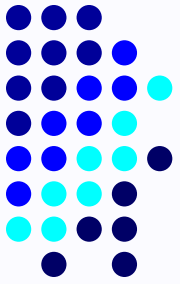
**(A) Anterior views**



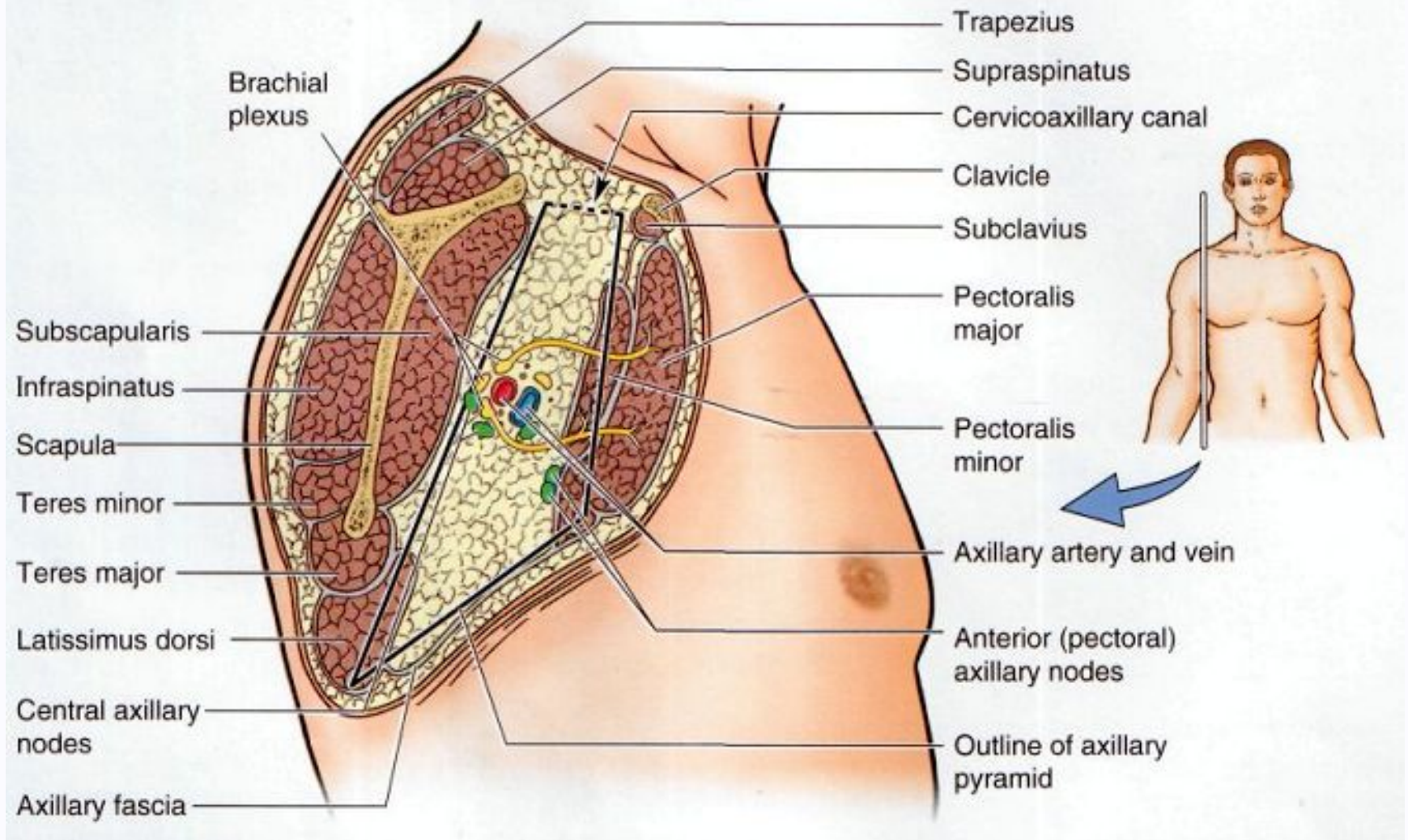
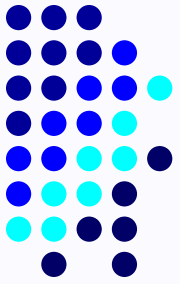
**Peripheral (cutaneous) nerve innervation of skin**

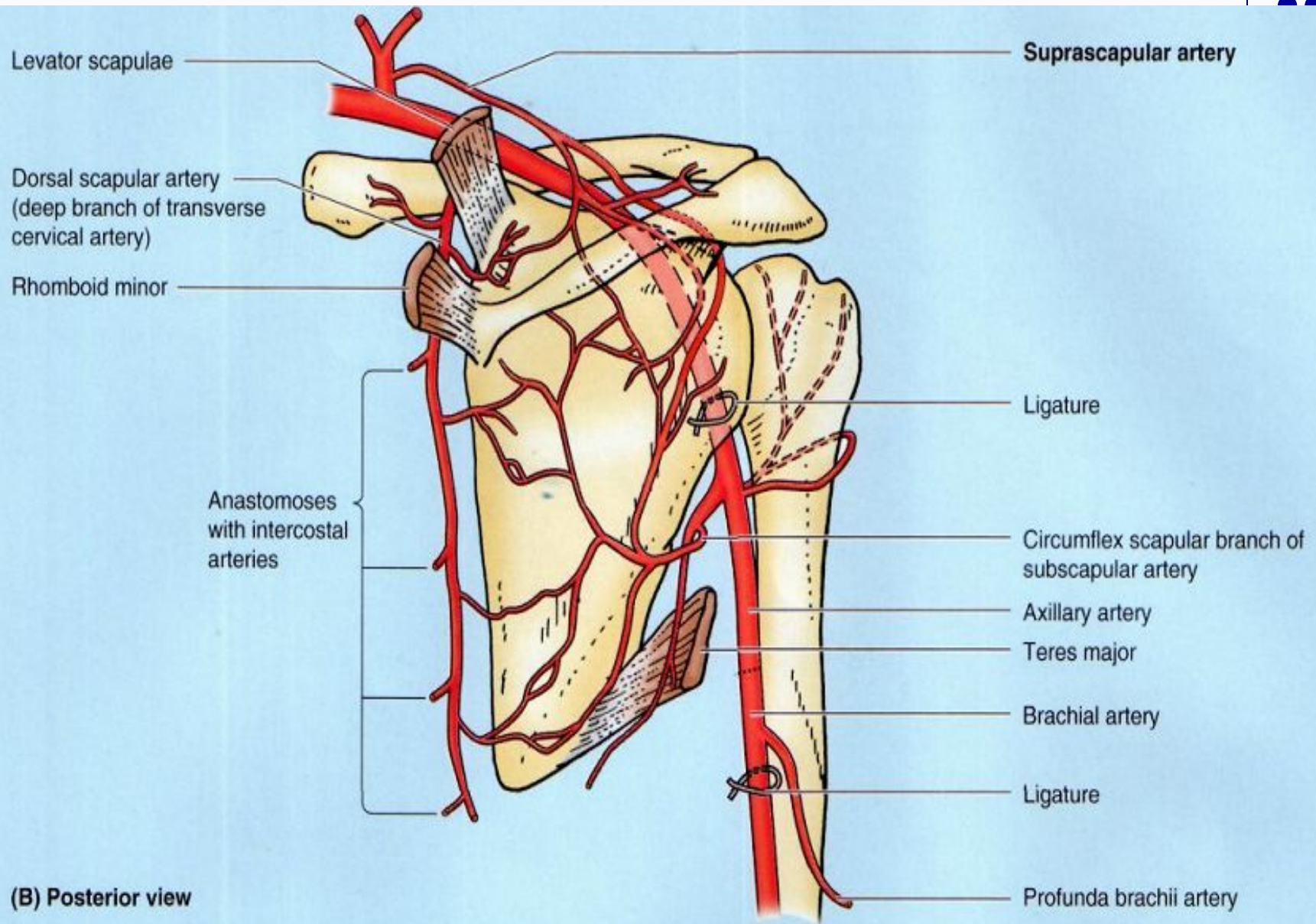


# Upper limb



# Regio scapularis

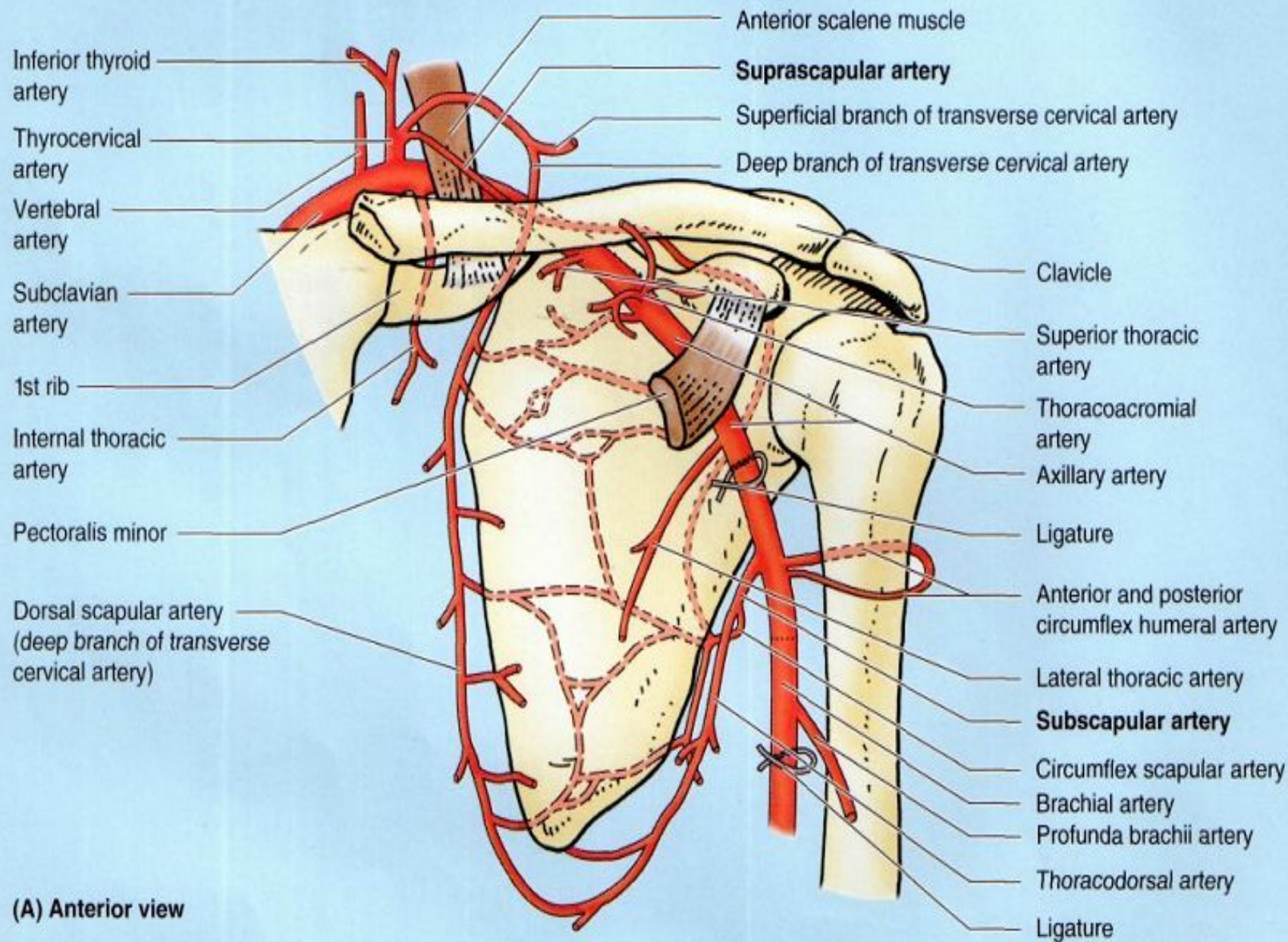




**(B) Posterior view**



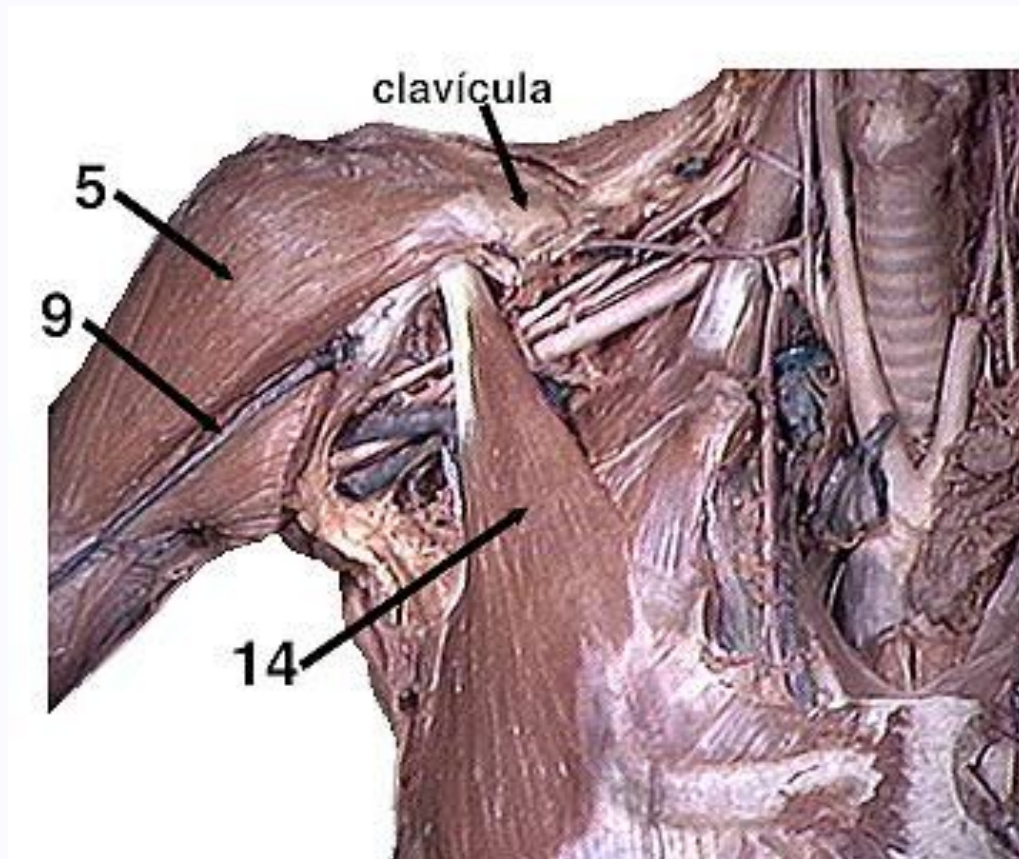
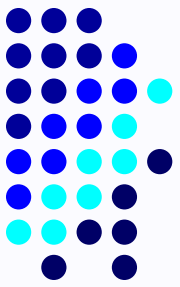


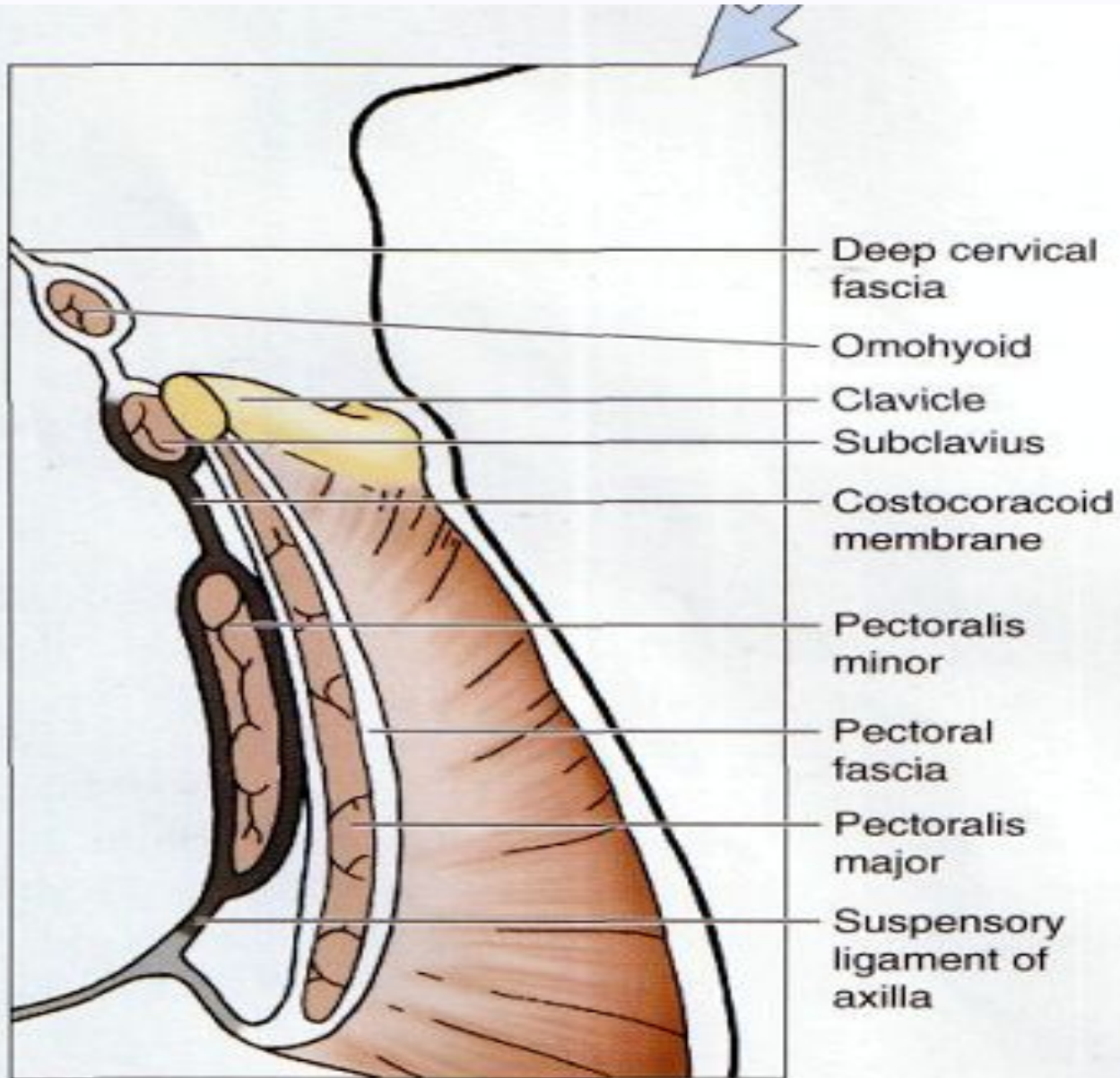
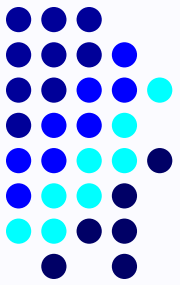


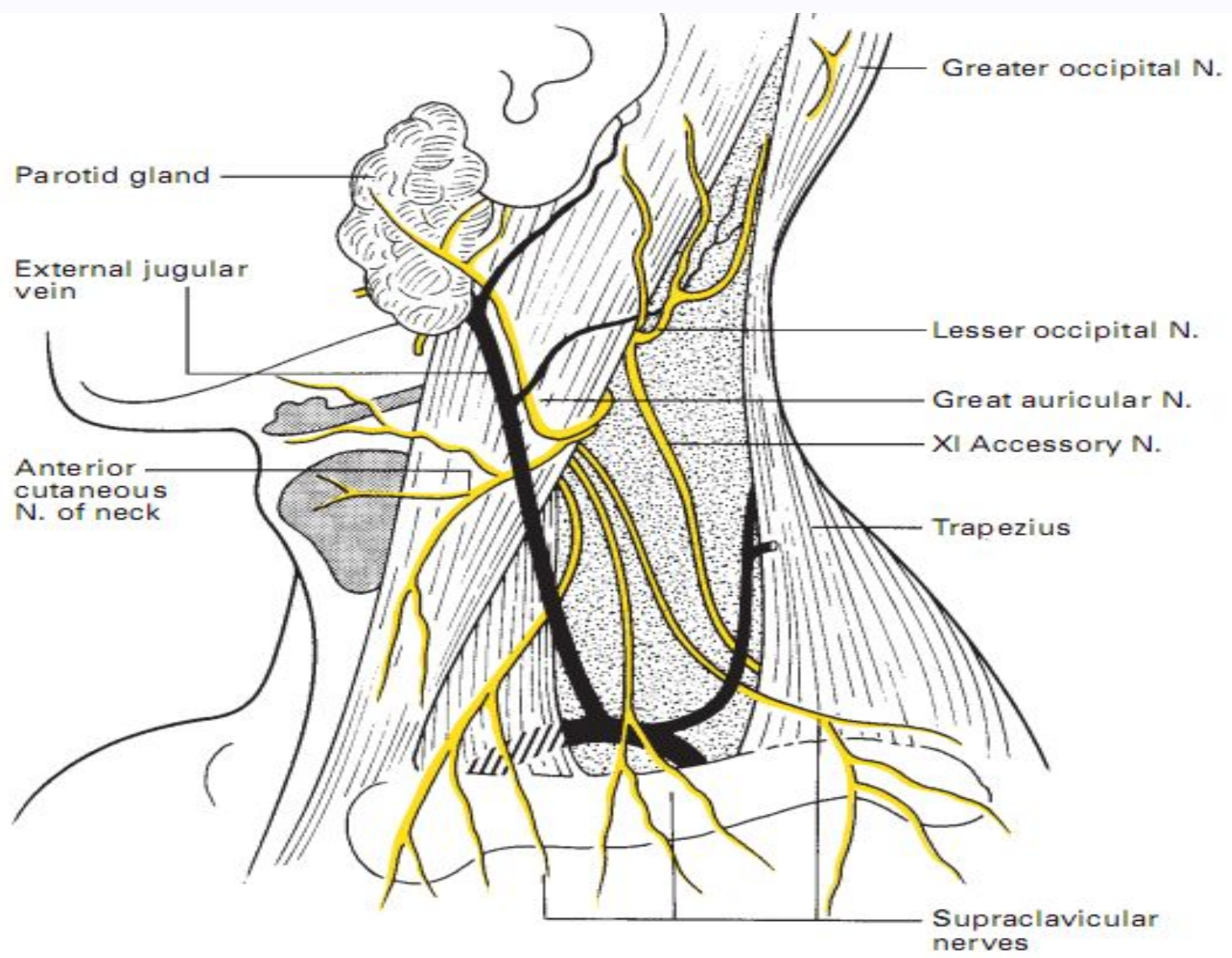
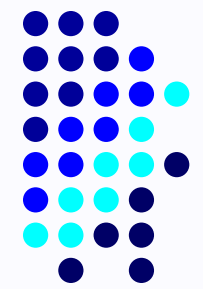
**(A) Anterior view**



# Regio infraclavicularis

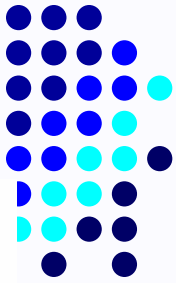








# a. subclavia:



Правая подключичная артерия, вид спереди

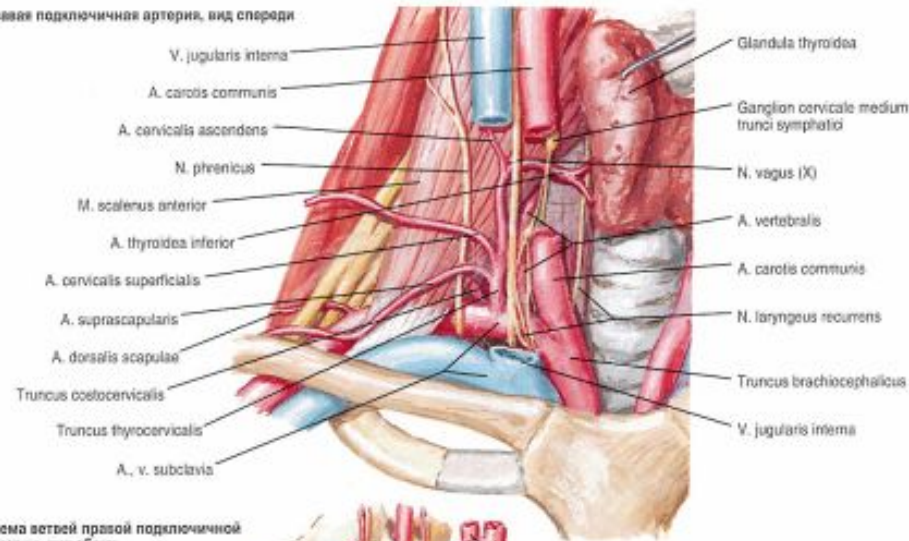
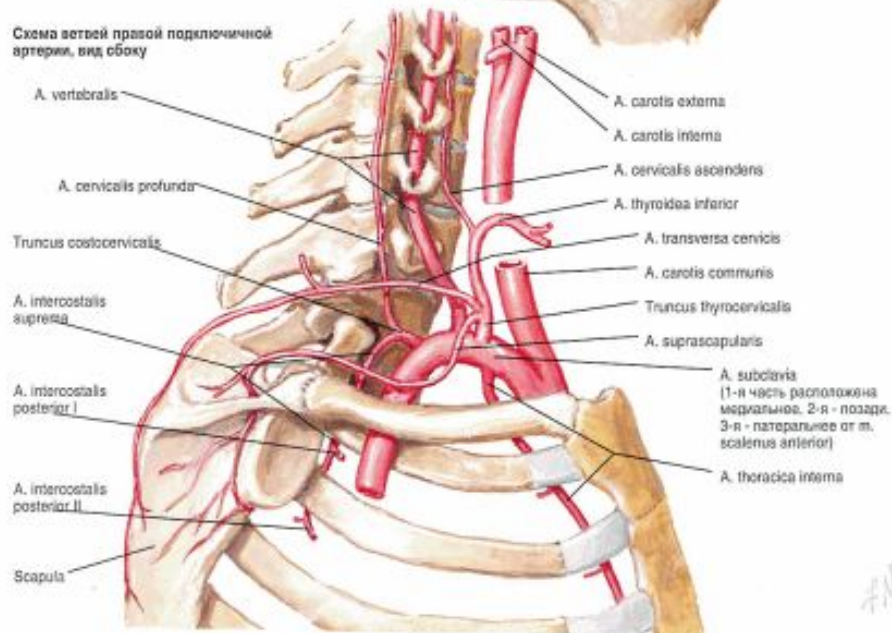
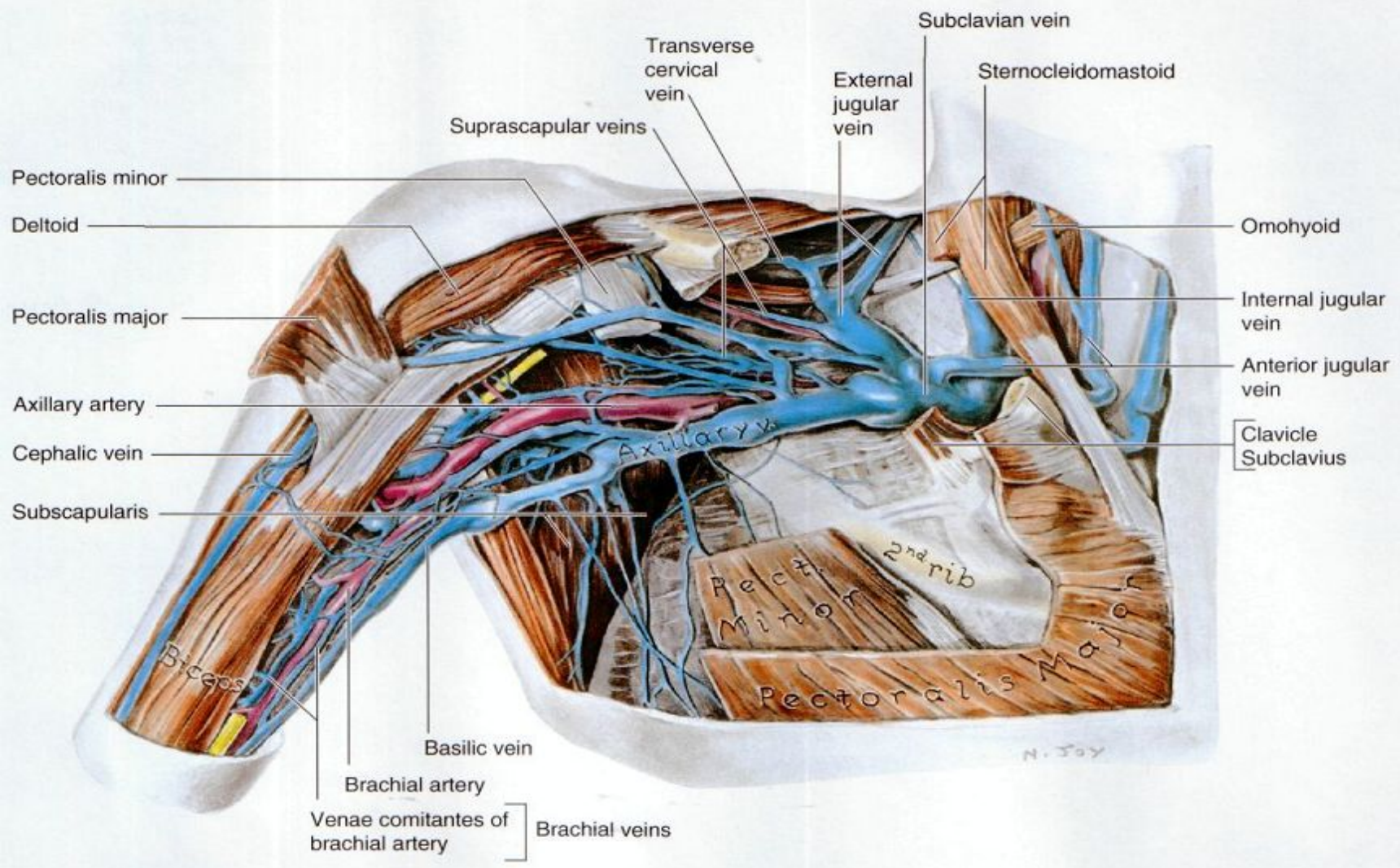


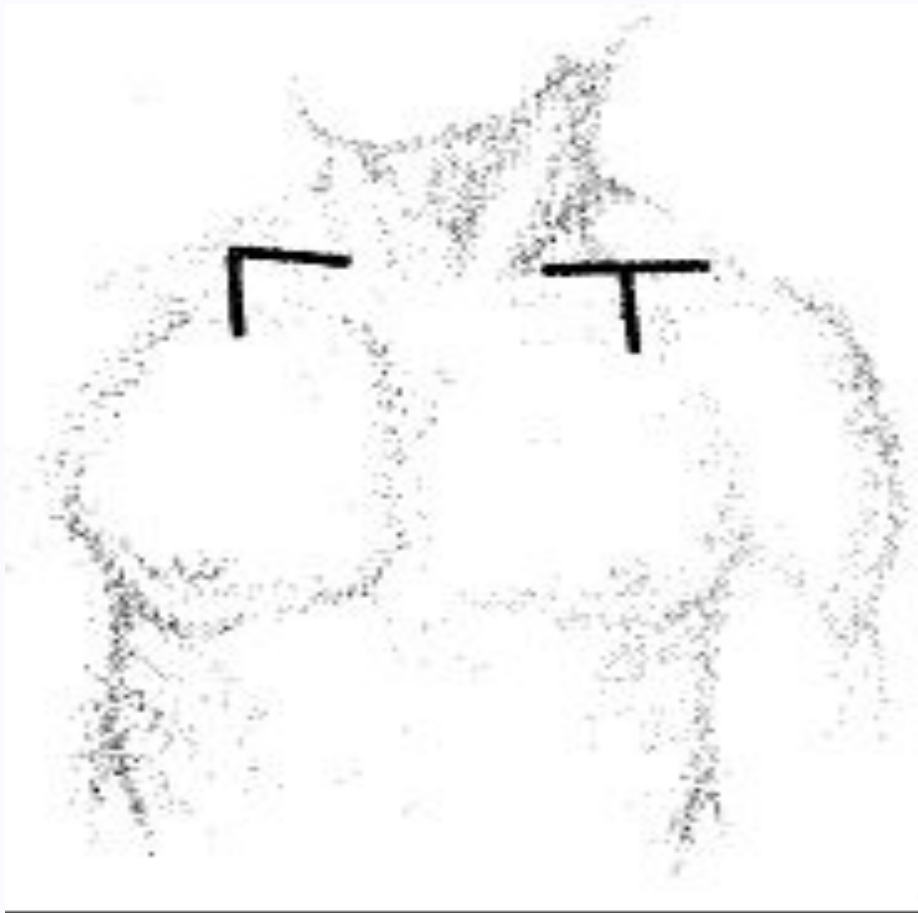
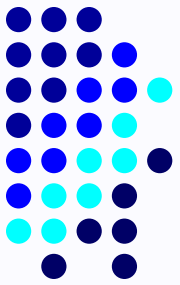
Схема ветвей правой подключичной артерии, вид сбоку





**Figure 6.26. Veins of the axilla.** Anterior view. Observe that the basilic vein parallels the brachial artery to the axilla, where it merges with the accompanying veins (L. venae comitantes) of the axillary artery to form the axillary vein. Notice also the large number of highly variable veins in the axilla, which are also tributaries of the axillary vein.

- **SURGICAL APPROACHES TO A.SUBCLAVIA**
- After Dzhanelidze
- After Petrovsky





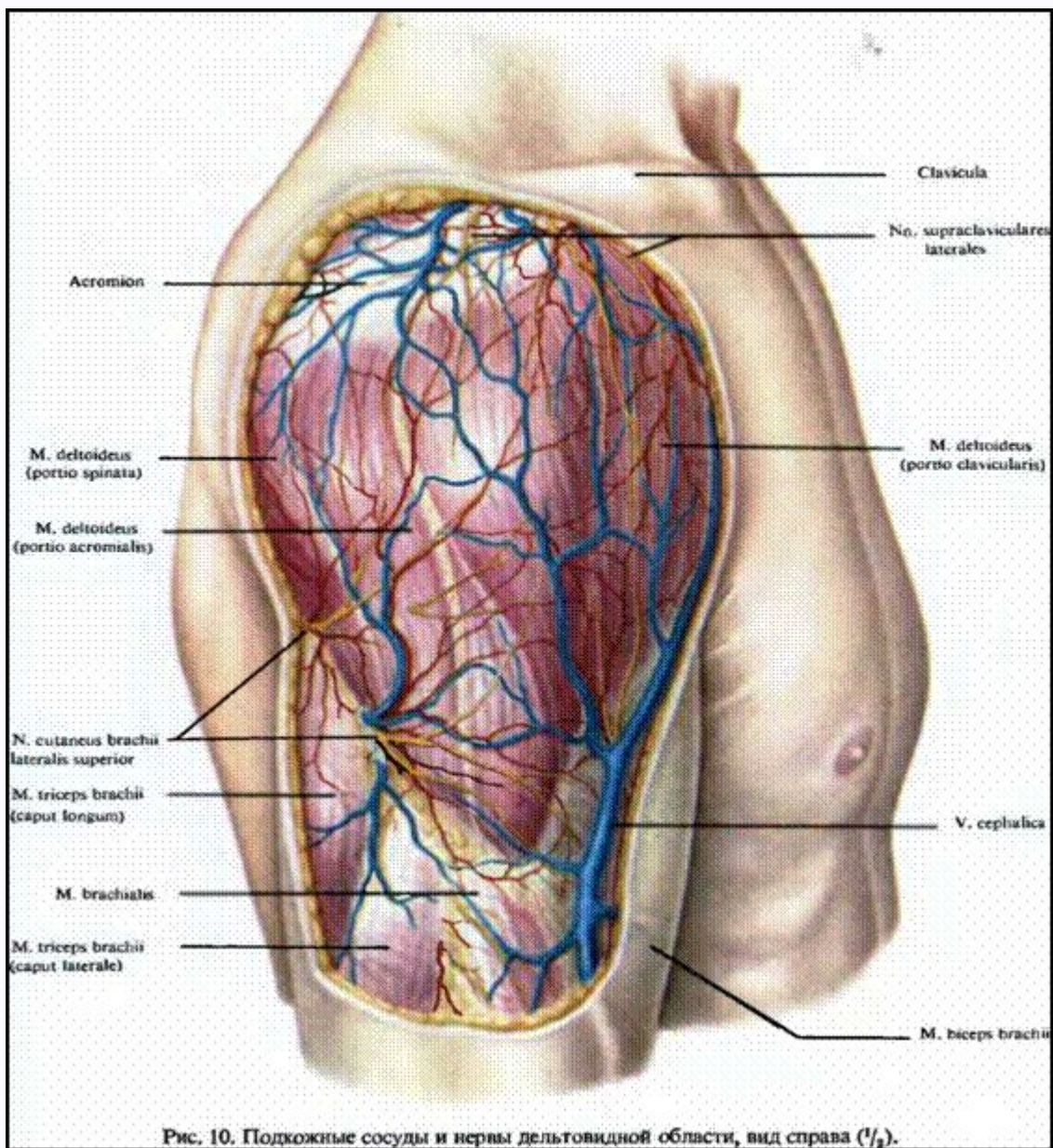
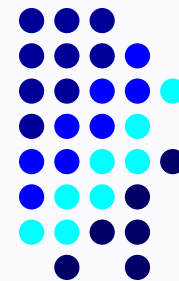
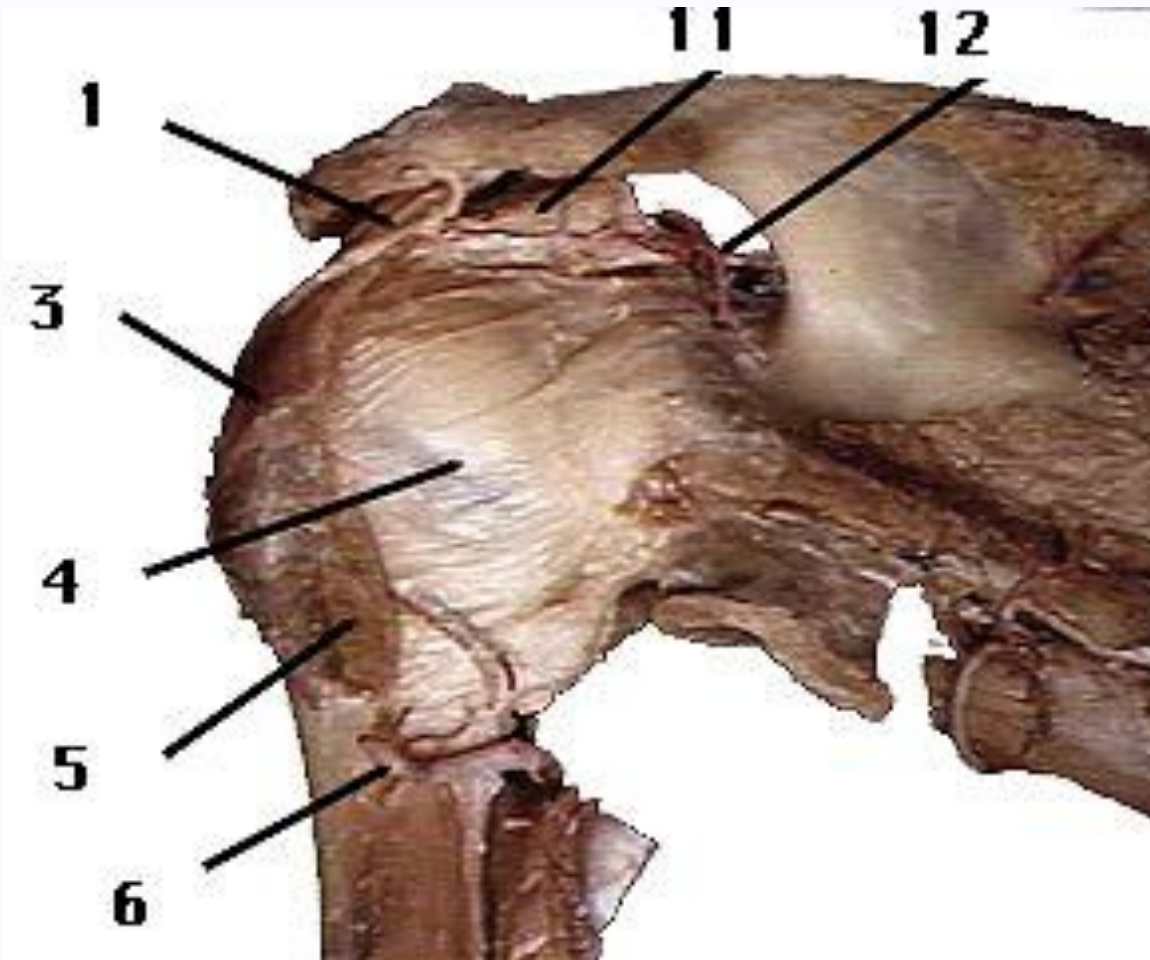
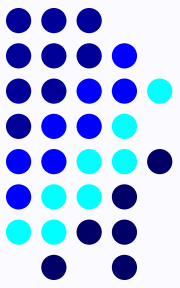


Рис. 10. Подкожные сосуды и нервы дельтовидной области, вид справа (1/2).

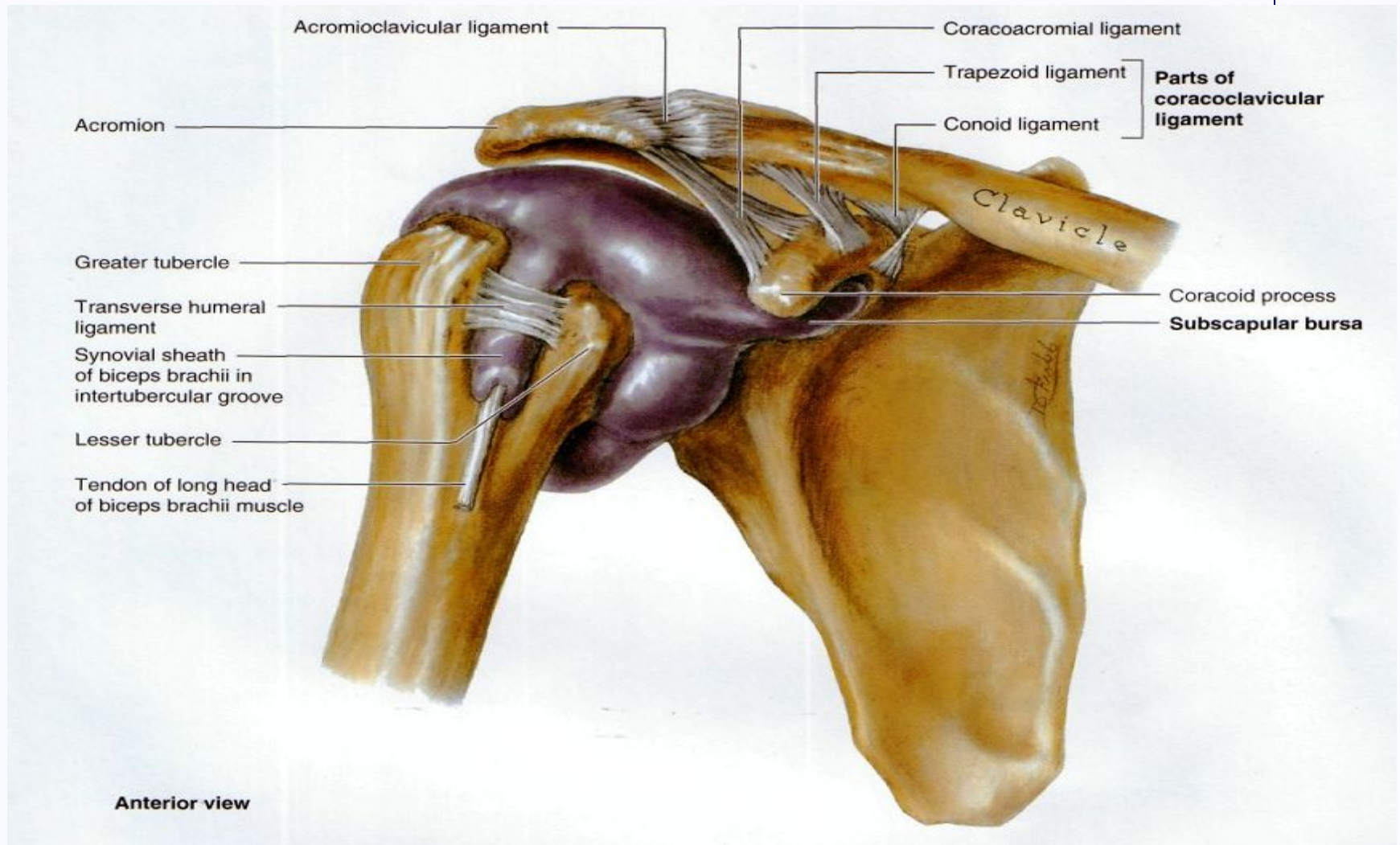
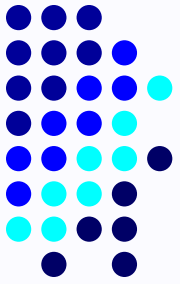
# Regio deltoidea

# Shoulder joint

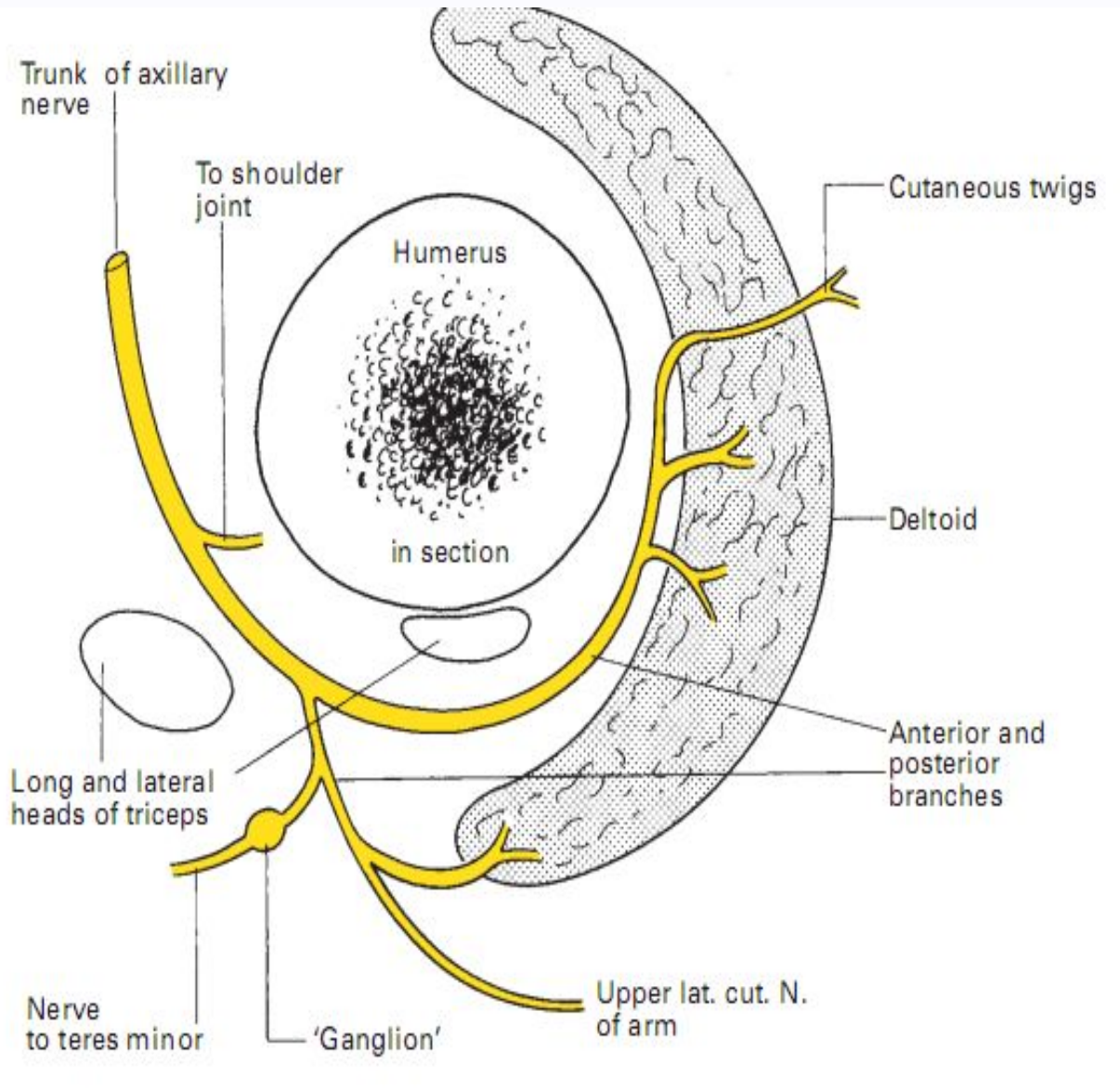
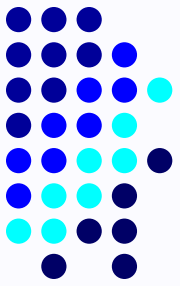




# Shoulder joint

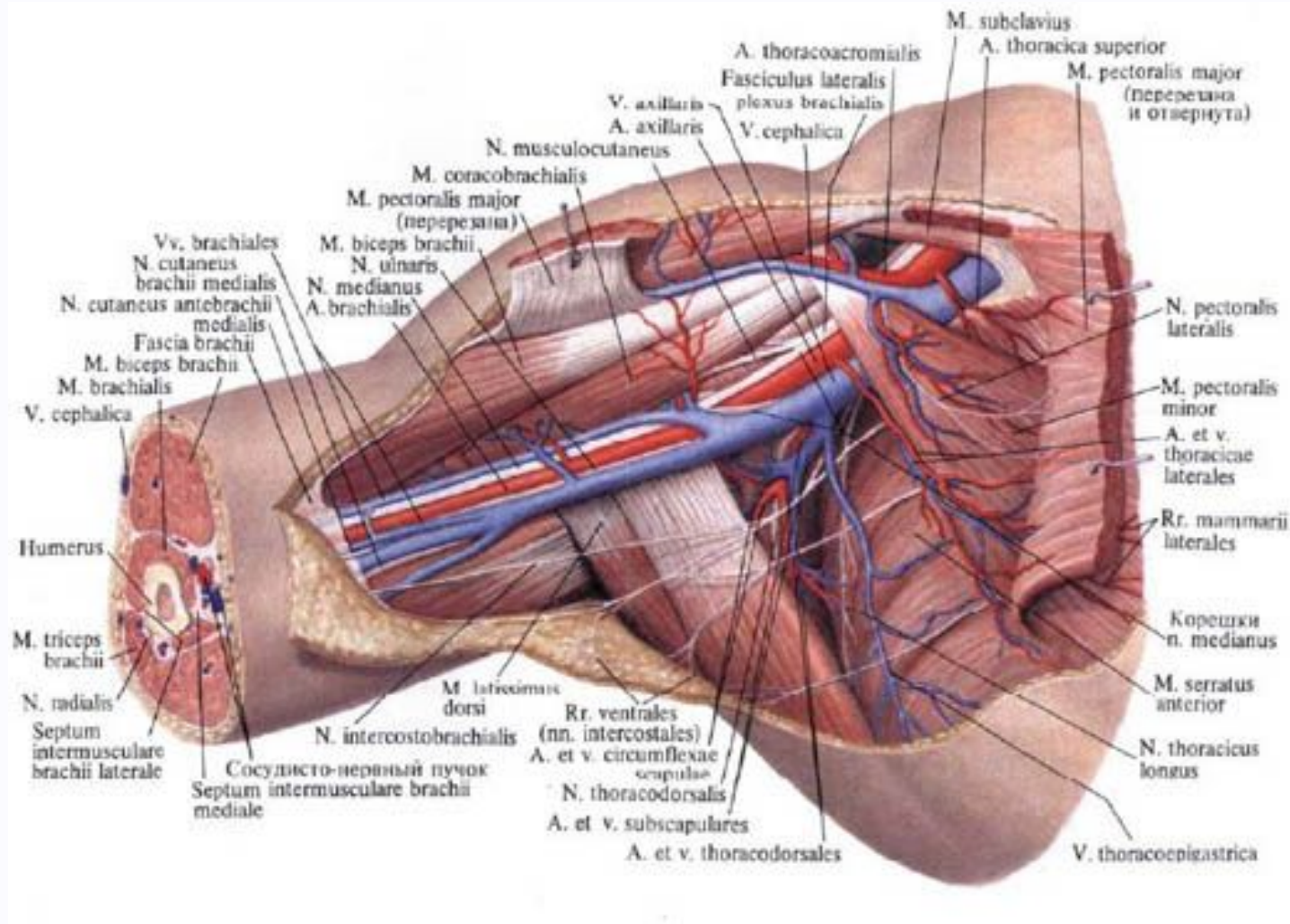


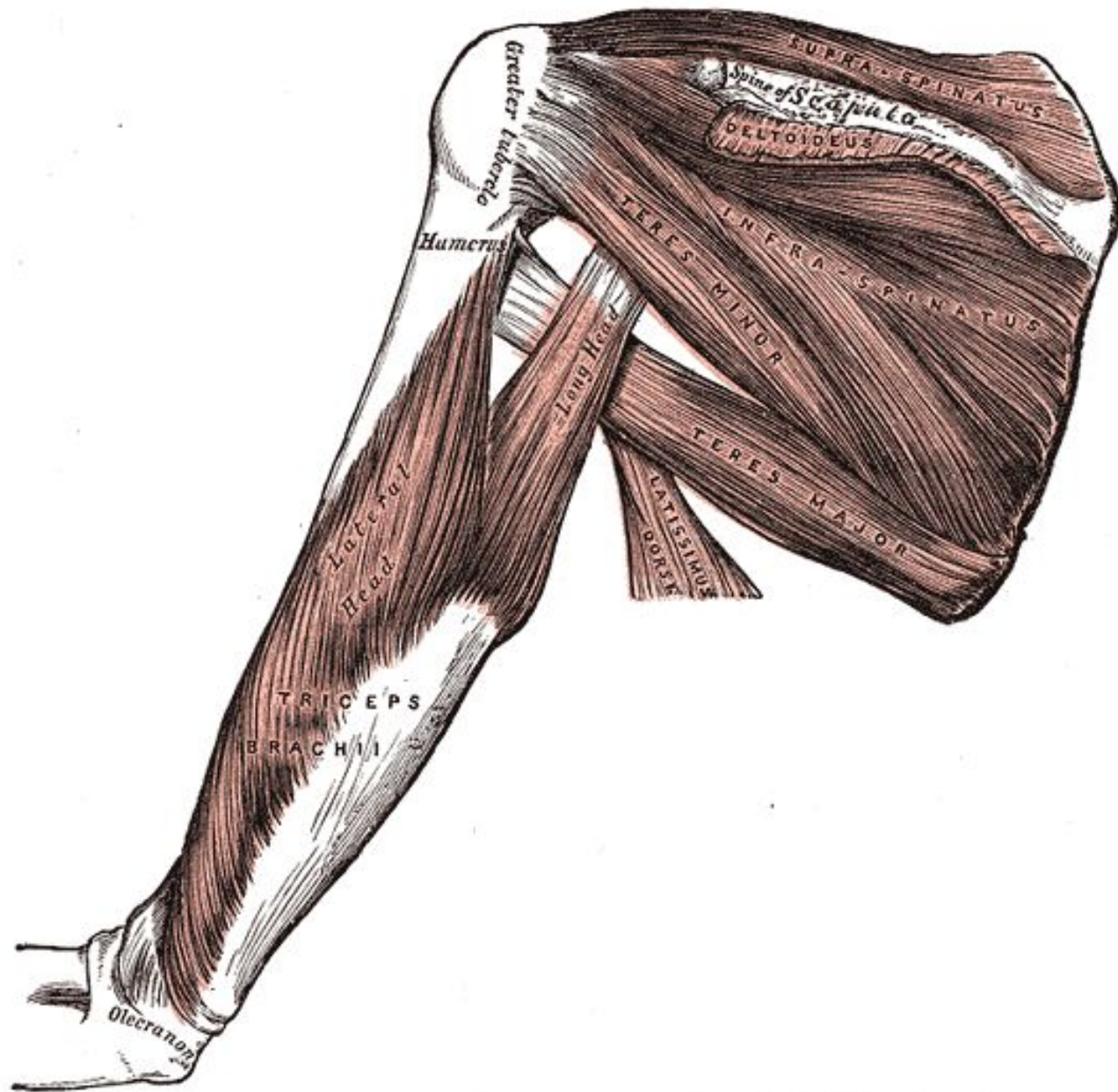
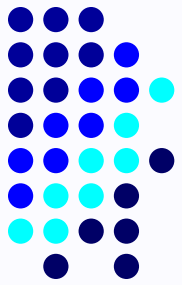




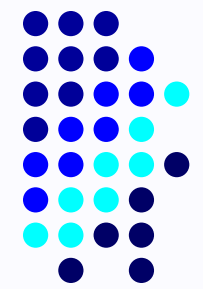
# Scheme of axillary nerve

# Regio axillaris









Anterior branches of lateral cutaneous branches of 2nd and 3rd intercostal nerves

Coracobrachialis

Biceps brachii, short head

Pectoralis major

Pectoralis minor

Lateral thoracic artery

Subscapularis and upper subscapular nerve

Subscapular artery

Serratus anterior and long thoracic nerve

Latissimus dorsi and thoracodorsal nerve

Thoracodorsal artery

Circumflex scapular branch of subscapular artery

Posterior branches of lateral cutaneous branches of 3rd and 4th intercostal nerves

Brachialis and median nerve

Coracobrachialis  
Musculocutaneous nerve

Cephalic vein

Deltoid

Axillary sheath

Teres major and lower subscapular nerve

Nerve to long head of triceps and posterior cutaneous nerve of arm

Radial nerve and profunda brachii artery

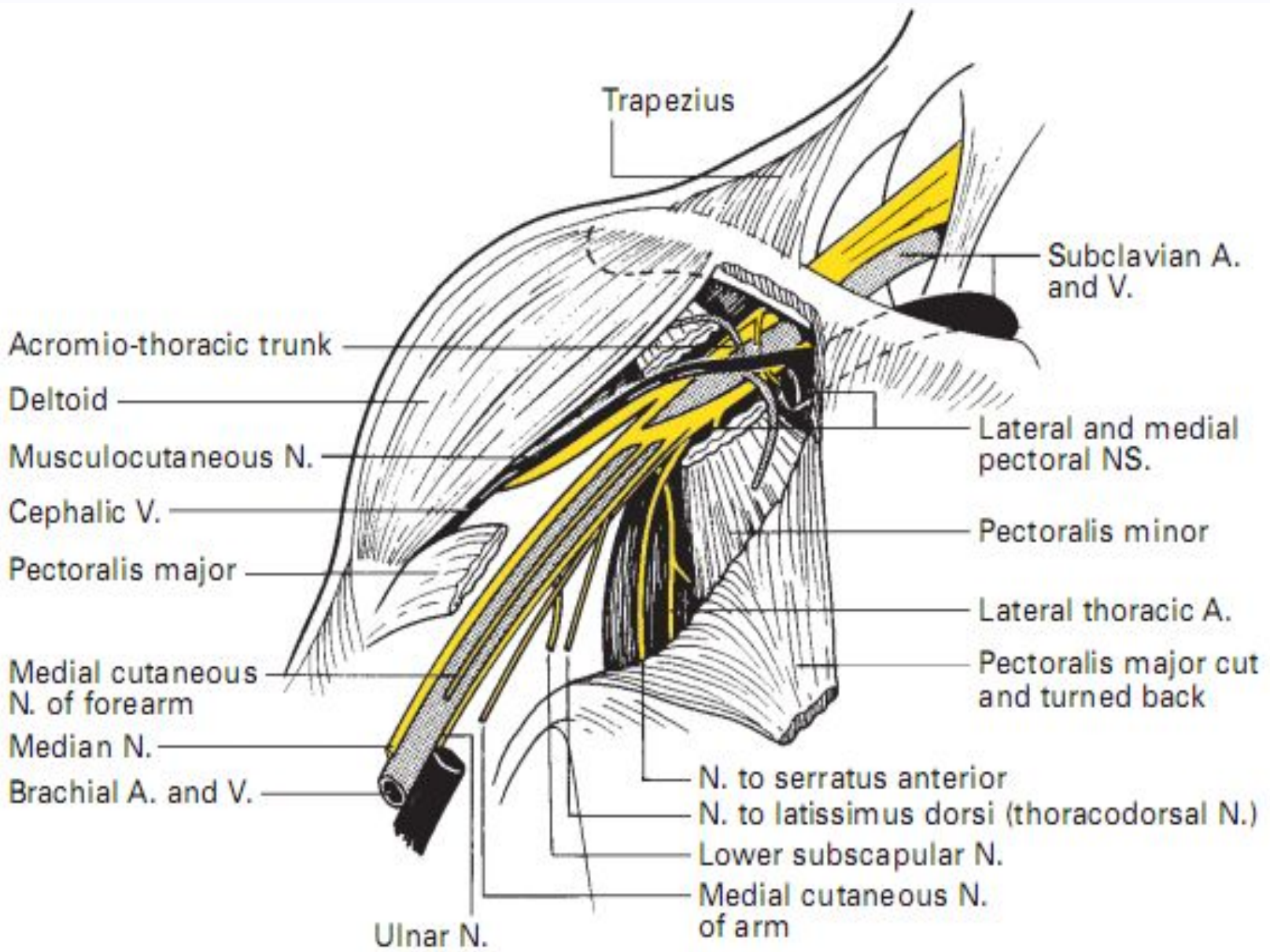
Brachial artery and basilic vein

Intercostobrachial nerves

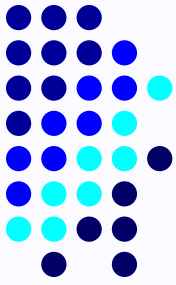
Ulnar nerve



Inferior view

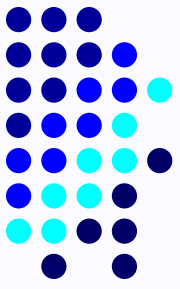






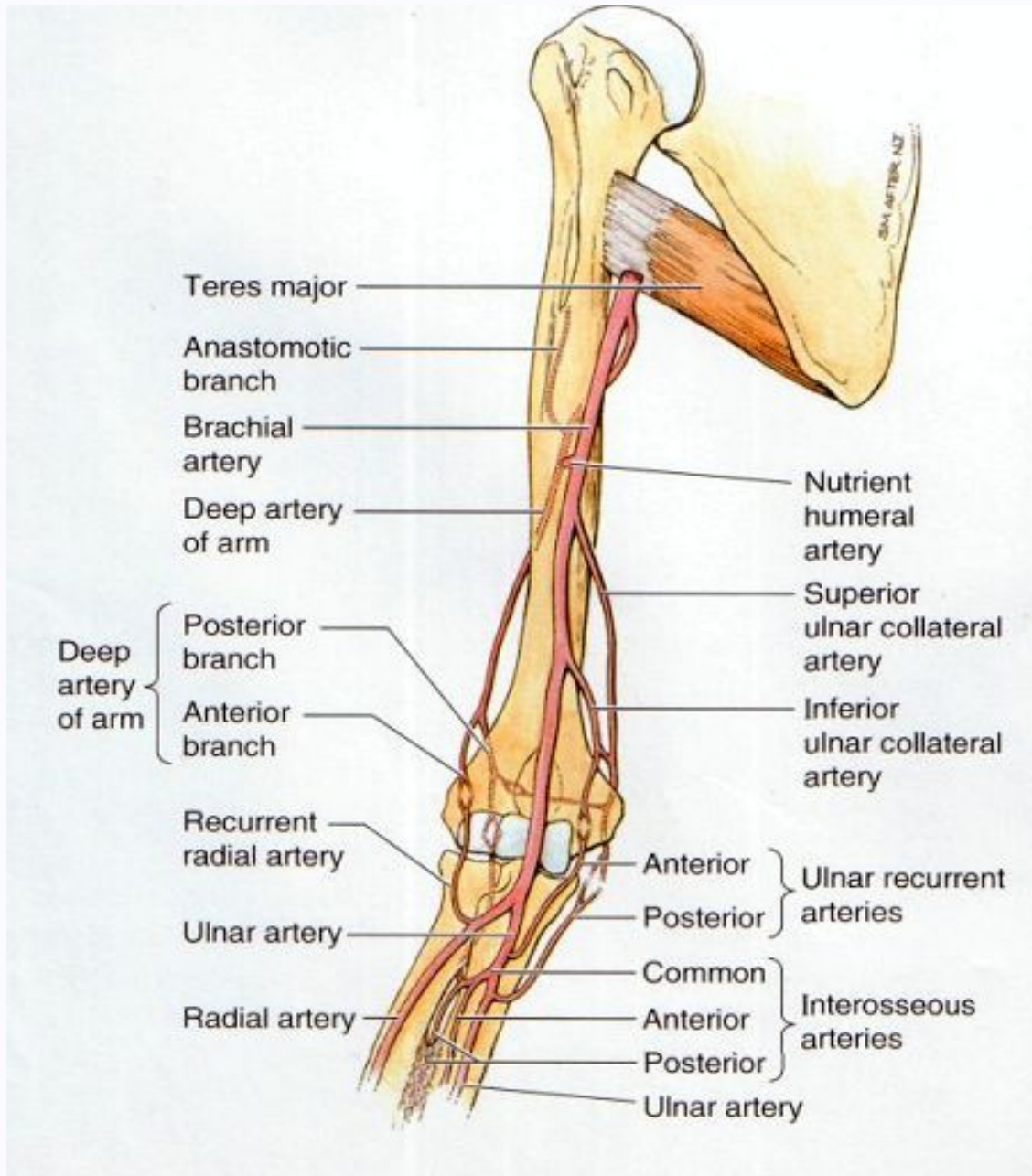
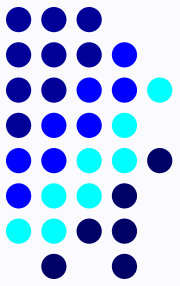
- 1 - a. axillaris, 2 - n. suprascapularis, 3 - n. subscapularis, 4 - fasciculus post., 5 - fasciculus lat., 6 - fasciculus med., 7 - v. axillaris, 8 - n. axillaris, 9 - a. subscapularis, 10 - odstup a. circumflexa humeri post., 11 - m. teres major + m. latissimus dorsi, 12 - n. musculocutaneus, 13 - a. brachialis, 14 - v. brachialis, 15 - n. radialis, 16 - n. medianus, 17 - n. cutaneus antebrachii med., 18 - n. ulnaris, 19 - m. triceps brachii, 20 - m. biceps brachii



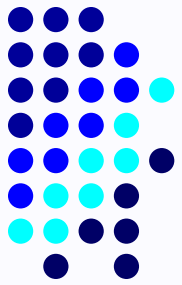
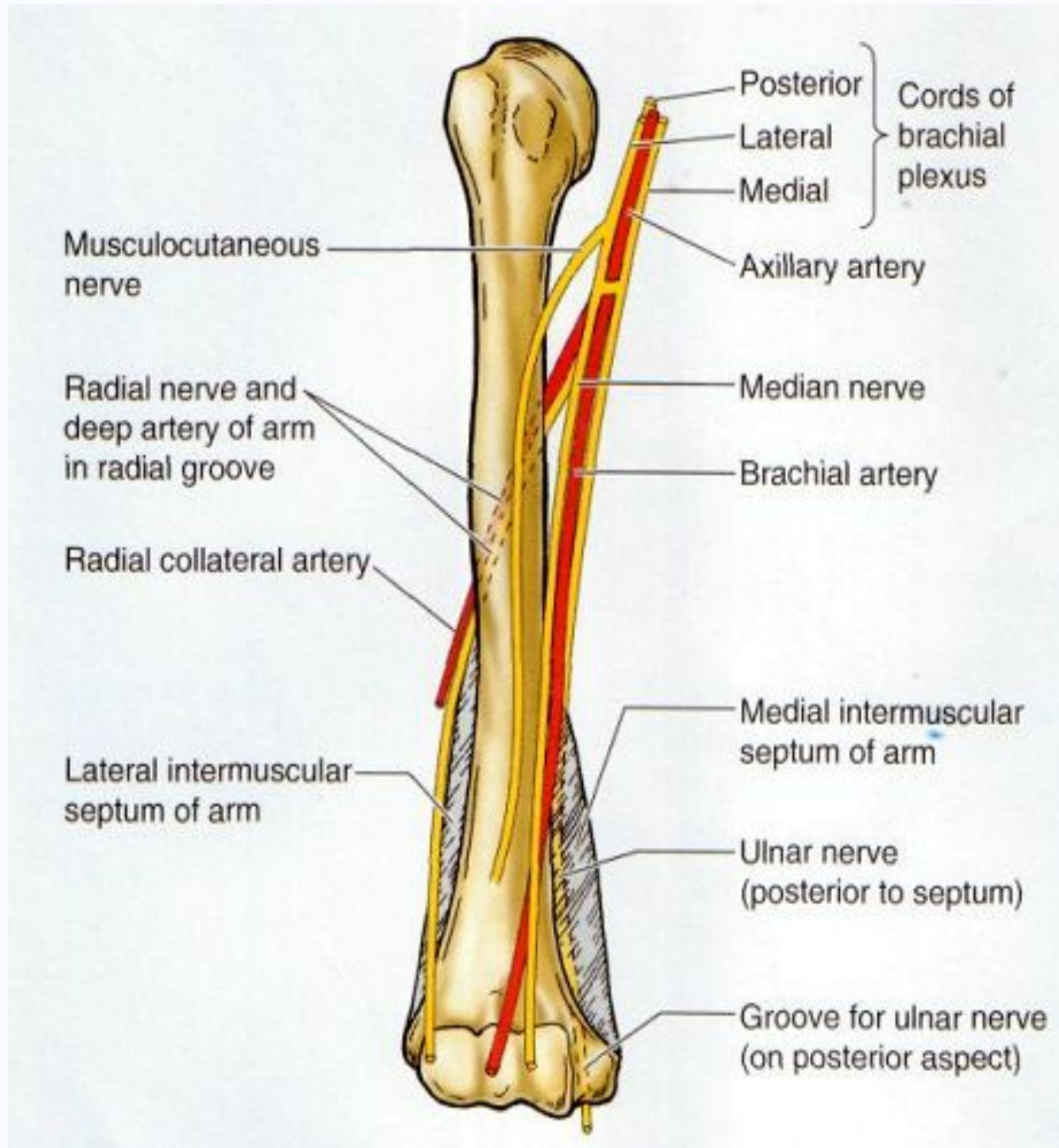


# Regio brachii posterior

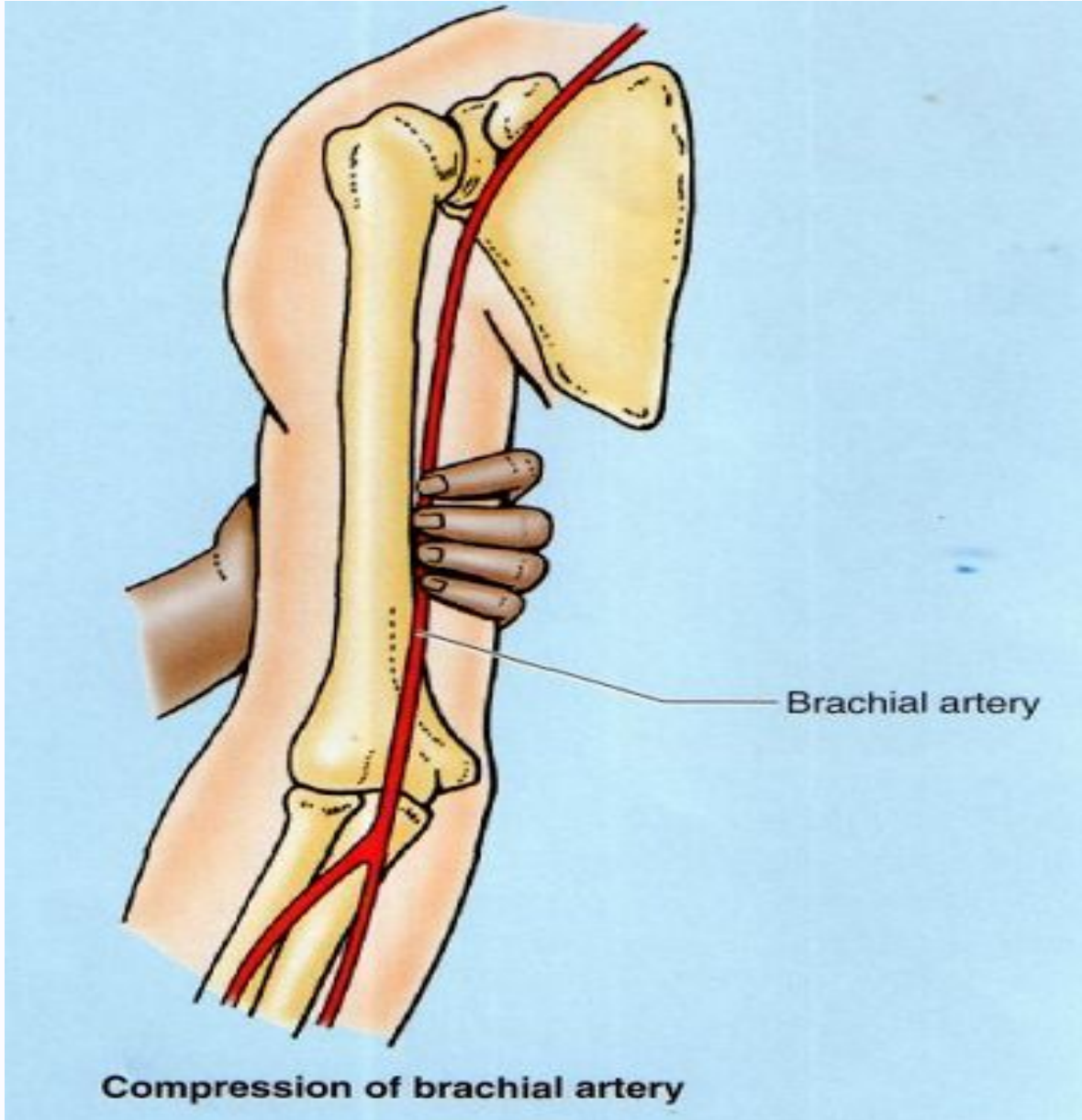
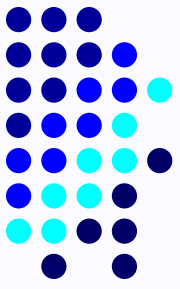




# Arteries of the arm

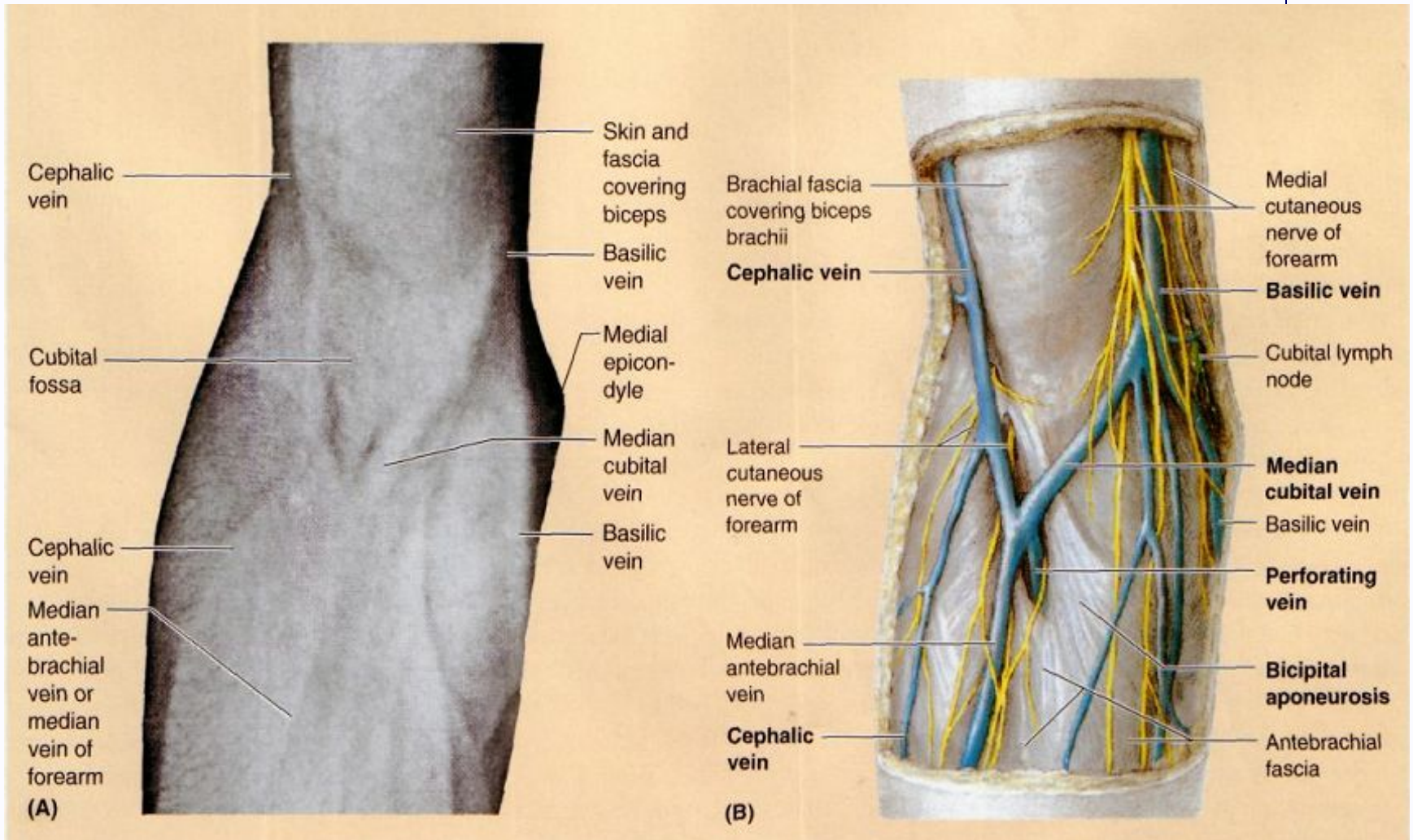
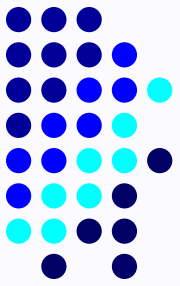






**Compression of brachial artery**

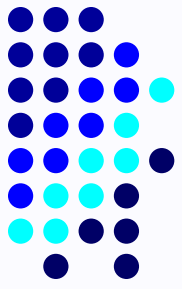
# Regio cubiti anterior







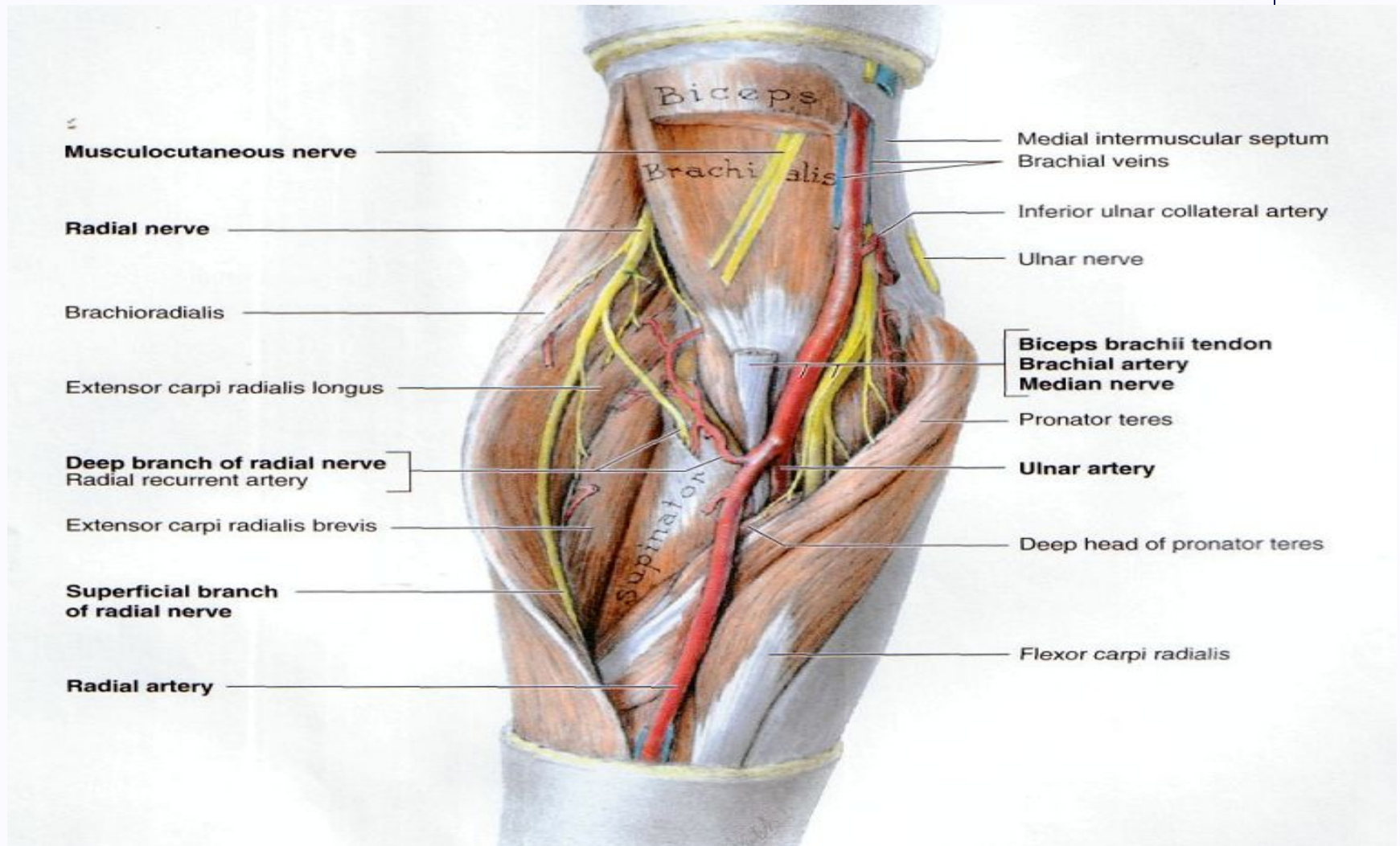
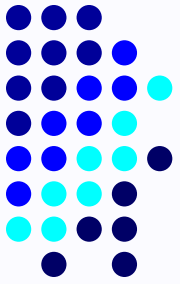
# Regio cubiti



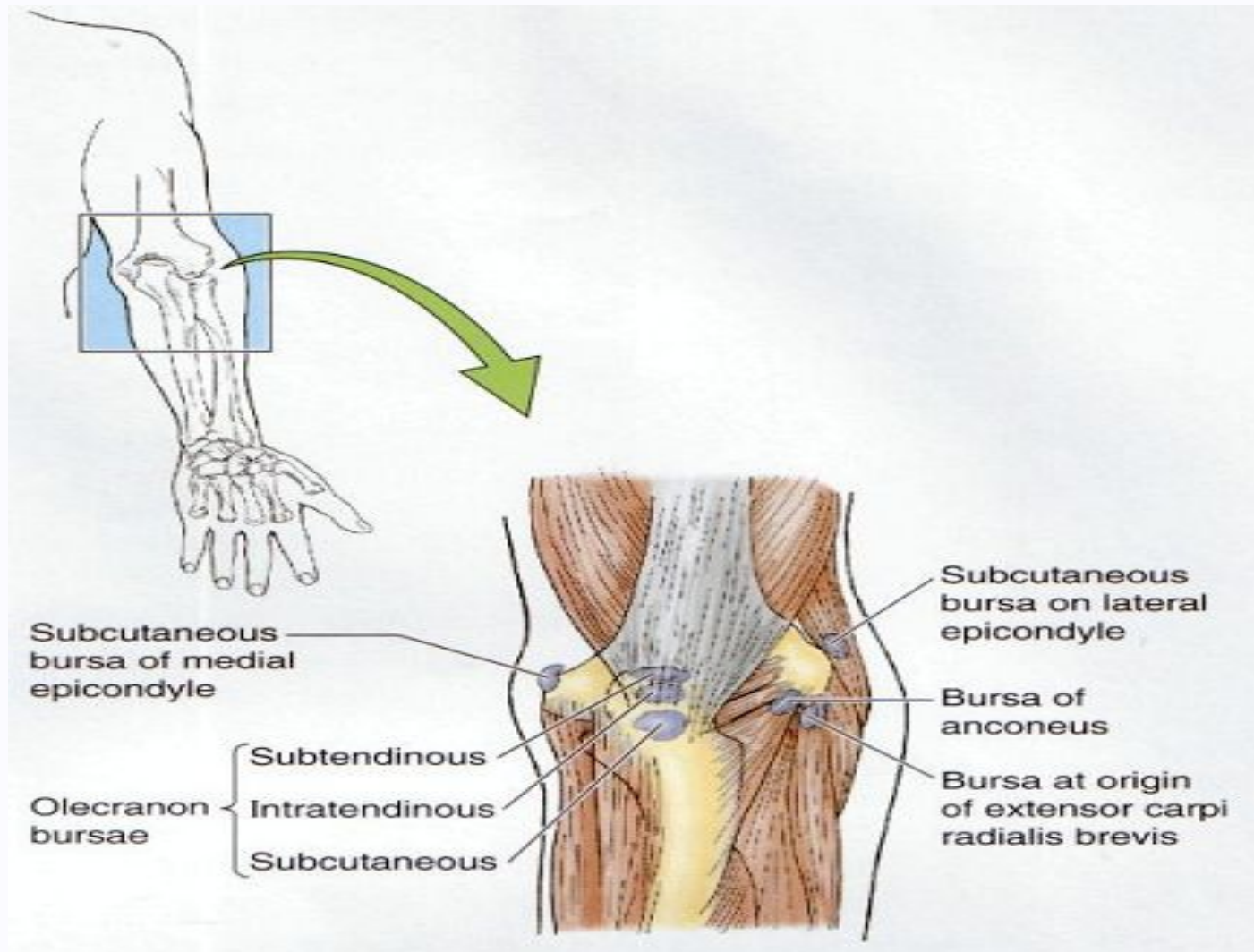
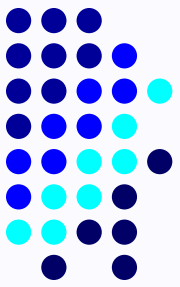
- 1 - m. biceps brachii, 2 - úponová šlacha m. biceps brachii, 3 - lacertus fibrosus, 4 - m. brachioradialis, 5 - svaly mediálního epikondylu, 6 - v. basilica, 7 - n. medianus, 8 - a. brachialis, 9 - v. mediana cubiti, 10 - n. cutaneus antebrachii lat.



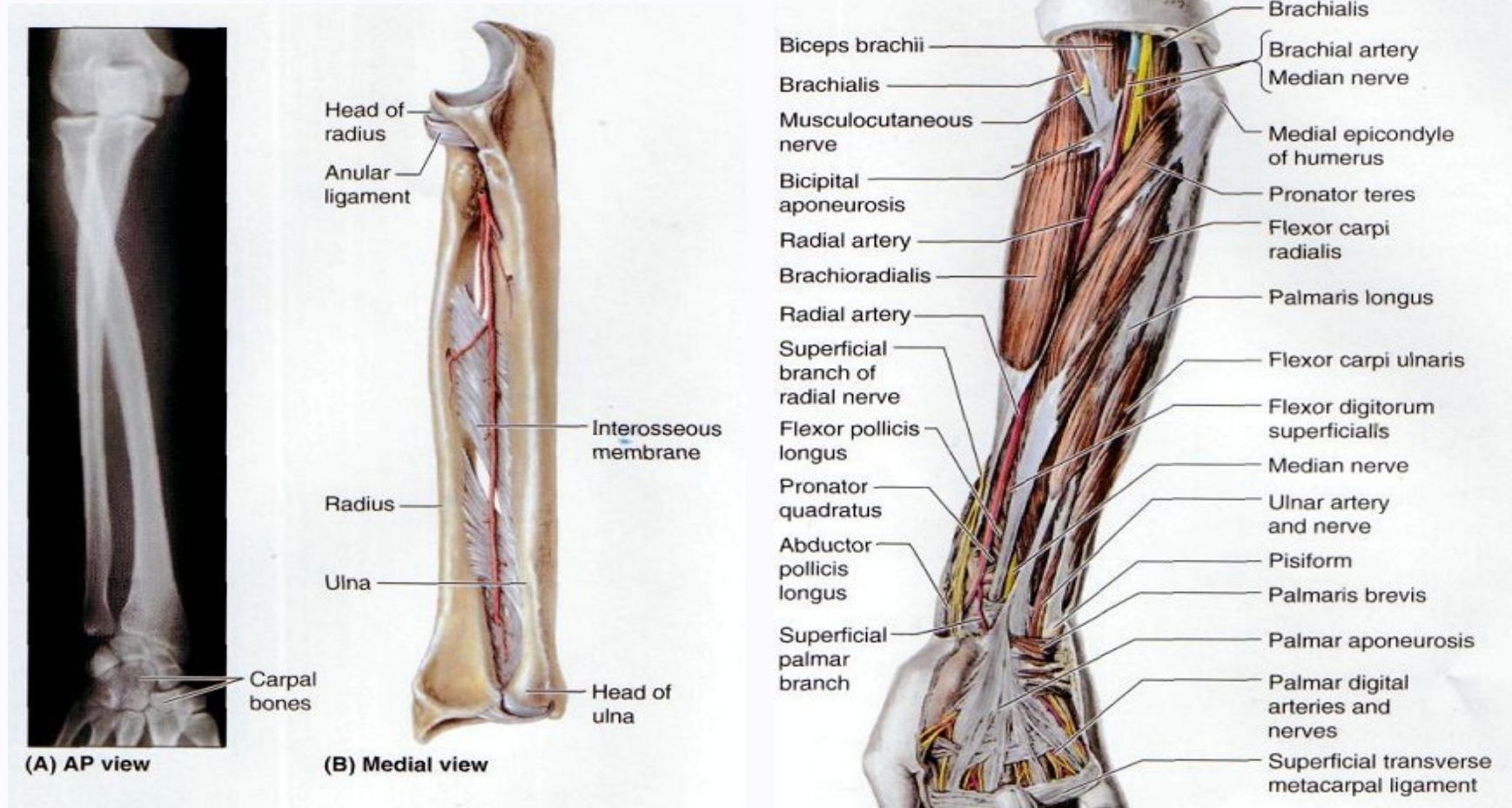
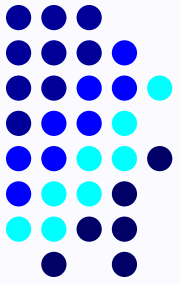
# Fossa cubiti



# Bursas of the elbow joint



# Forearm





# Topography of the forearm and hand

## Elbow fossa:

laterally – brachioradial m.,  
 medially – pronator teres m.,  
 superiorly – brachial m..

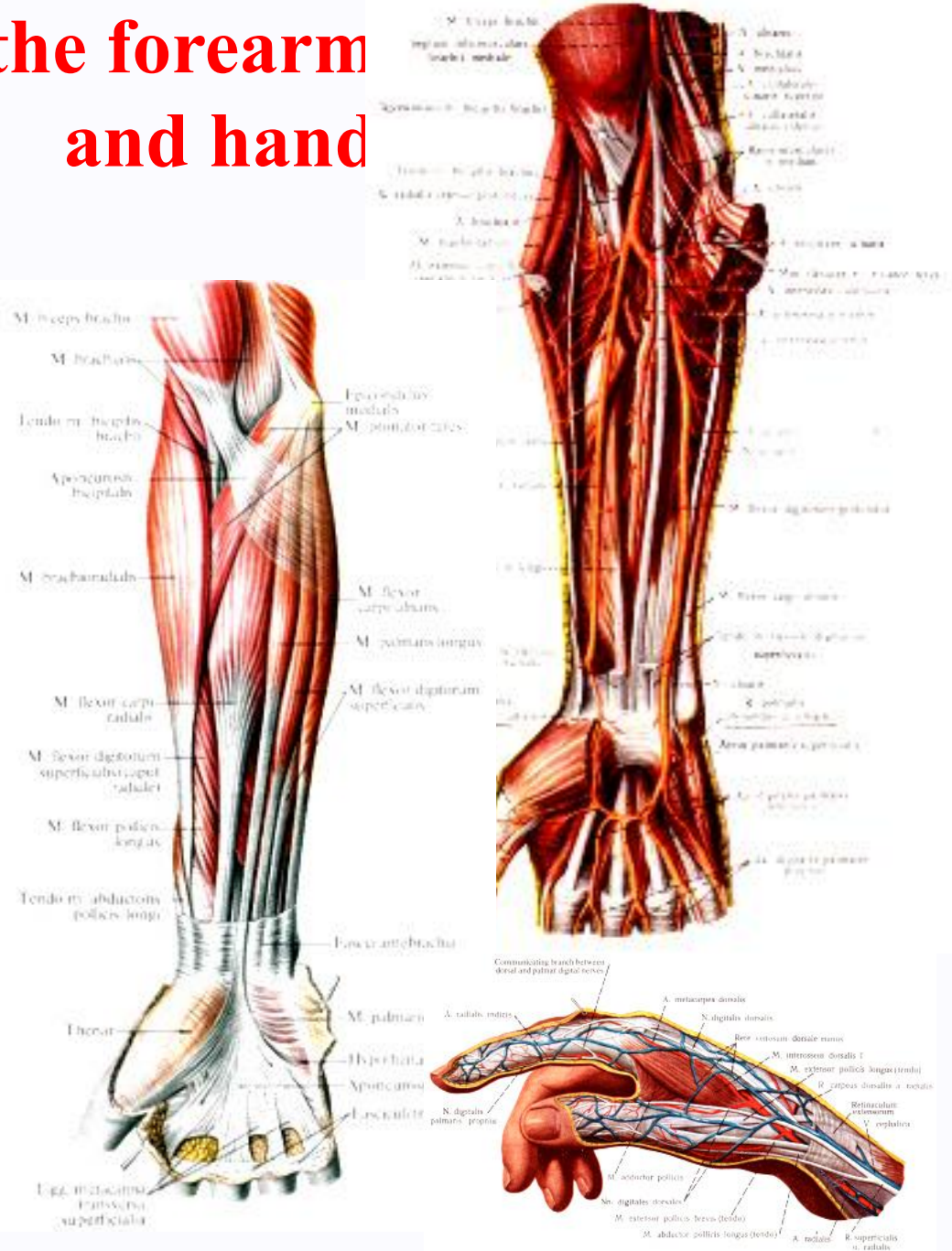
## Antebrachial grooves:

**Lateral = radial:** between  
 brachioradial and flexor carpi  
 radialis mm;

**Median:** between flexor carpi  
 radialis and flexor digitorum  
 superficialis mm ;

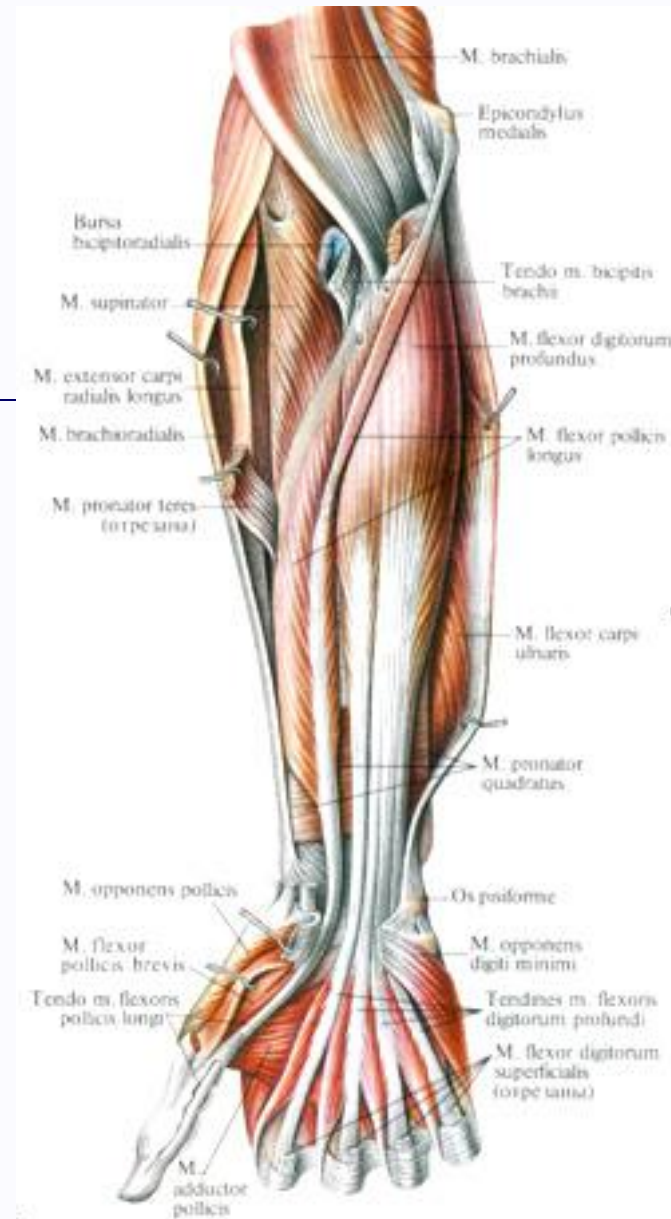
**Medial = ulnar:** between flexor  
 digitorum superficialis and flexor  
 carpi ulnaris mm .

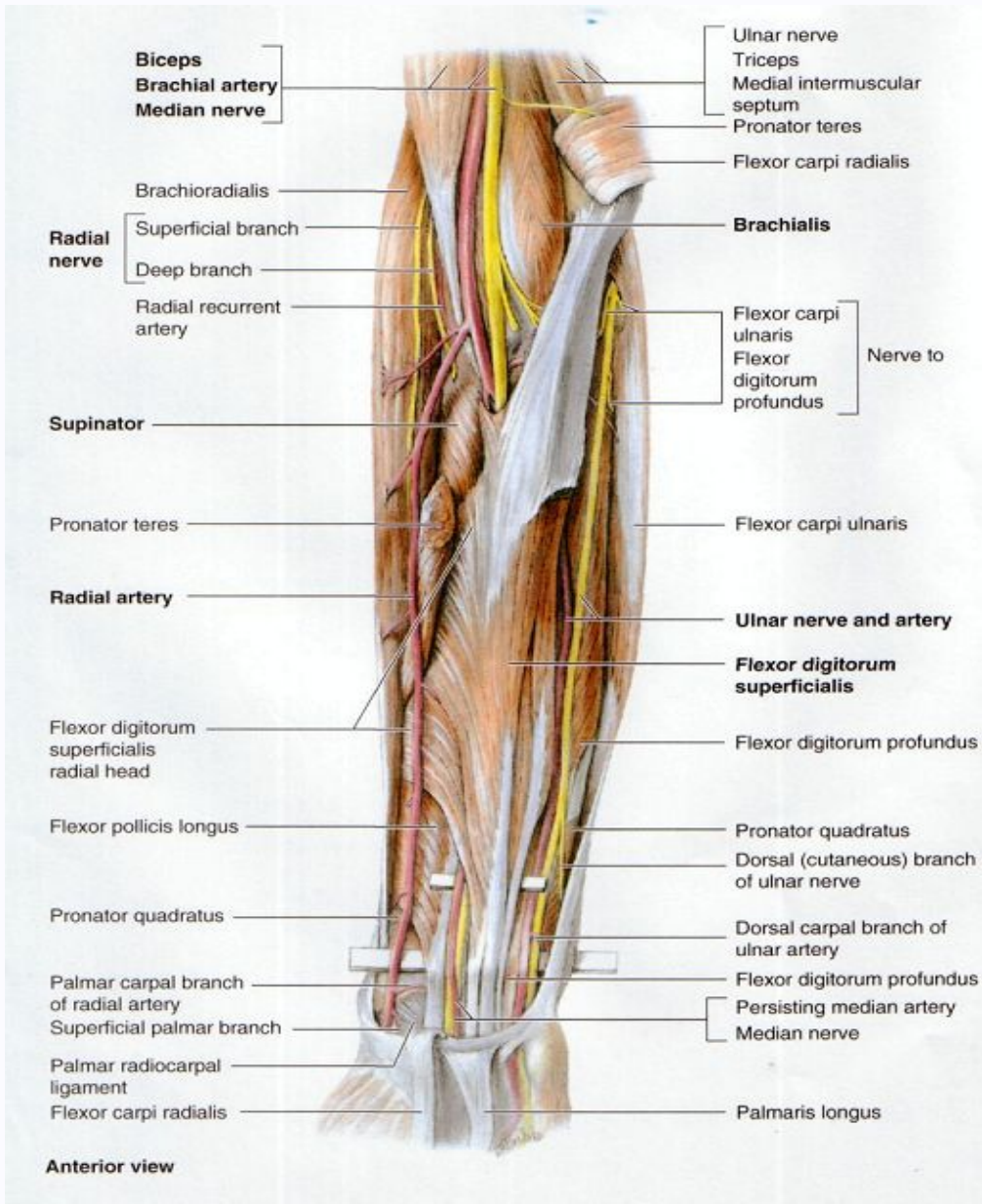
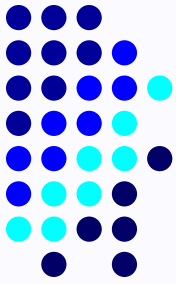
## Anatomical snuff-box



# Topography of the forearm

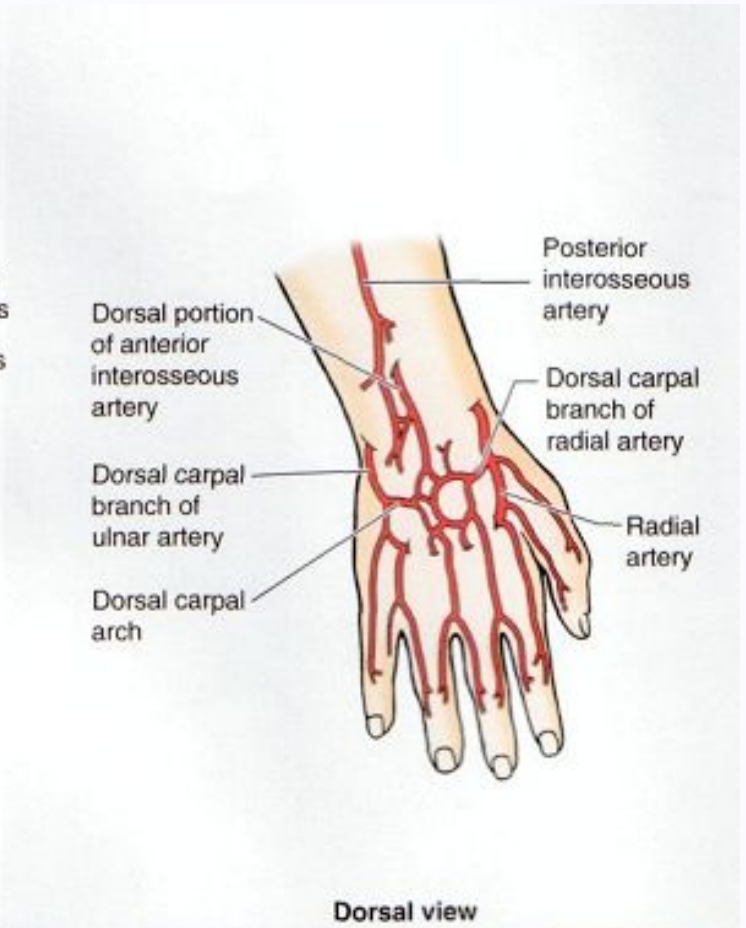
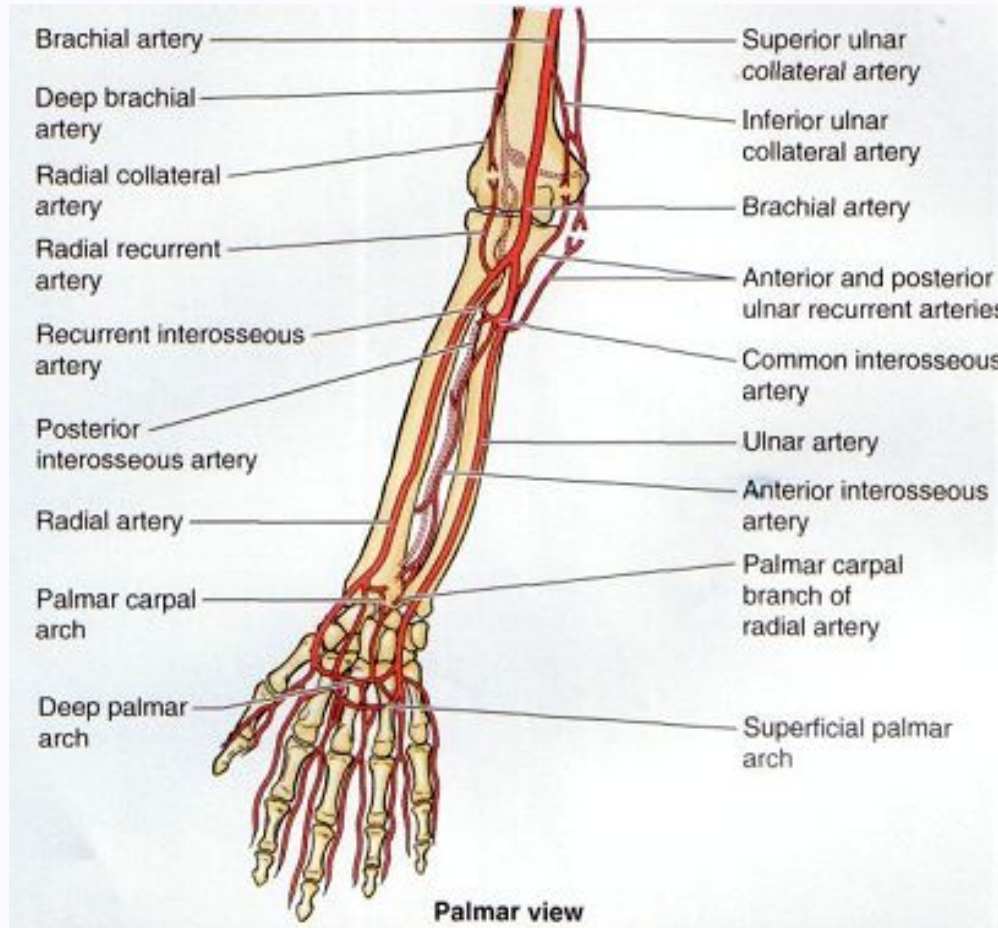
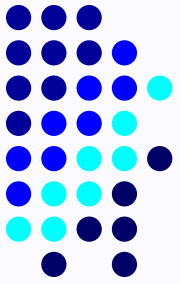
1. **Canal of the ulnar nerve:** between the medial epicondyle, proximal ulna and origin of the forearm flexors
2. **Canalis supinatorius:** between the supinatorius muscle and radius
3. **Pirogov's space:** between the third and fourth layers of the forearm muscles at its distal part.



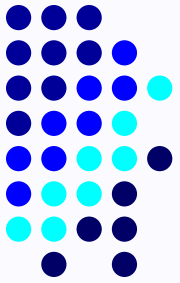


# Regio antebrachii anterior

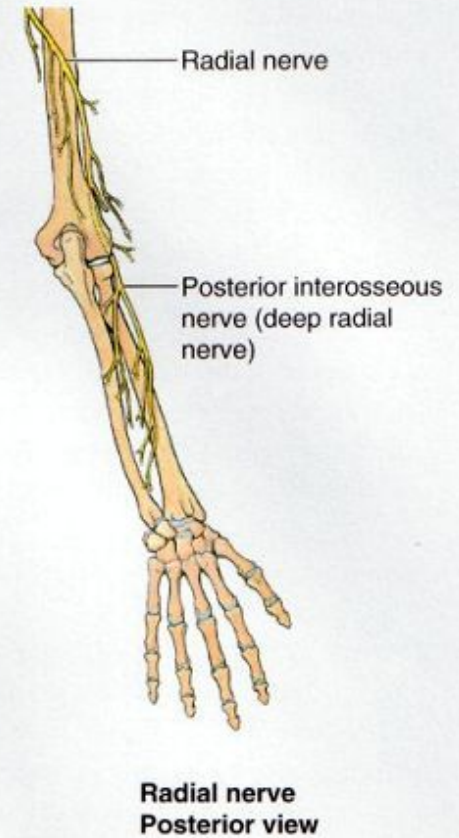
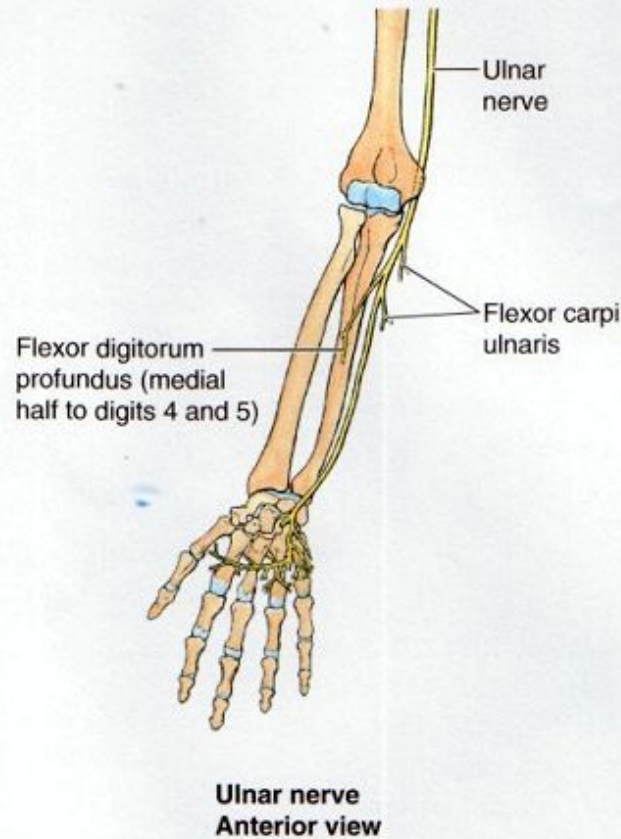
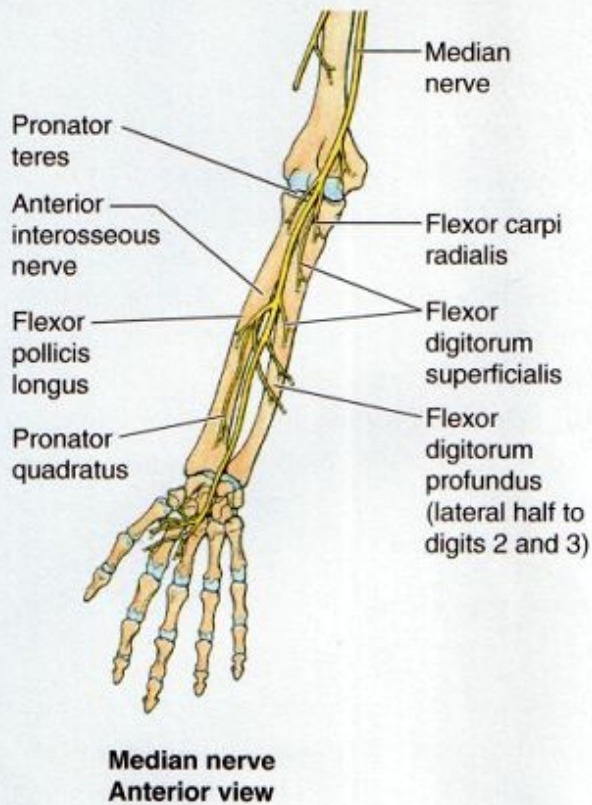


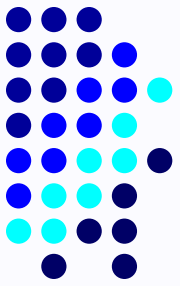


# Nerves of the forearm



**Table 6.9. Nerves of the Forearm**





**Posterior view**

Medial cutaneous nerve of forearm

Posterior cutaneous nerve of forearm

Lateral cutaneous nerve of forearm

Palmar cutaneous branch of median nerve

Superficial branch of radial nerve

**Cutaneous nerves**

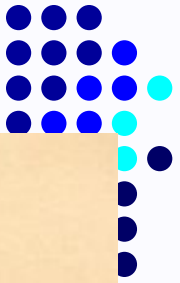


**Anterior view**

Medial cutaneous nerve of forearm

Palmar cutaneous branch of ulnar nerve





Adductor pollicis

1st dorsal interosseous

Tendon of extensor pollicis longus

Tendon of extensor pollicis brevis

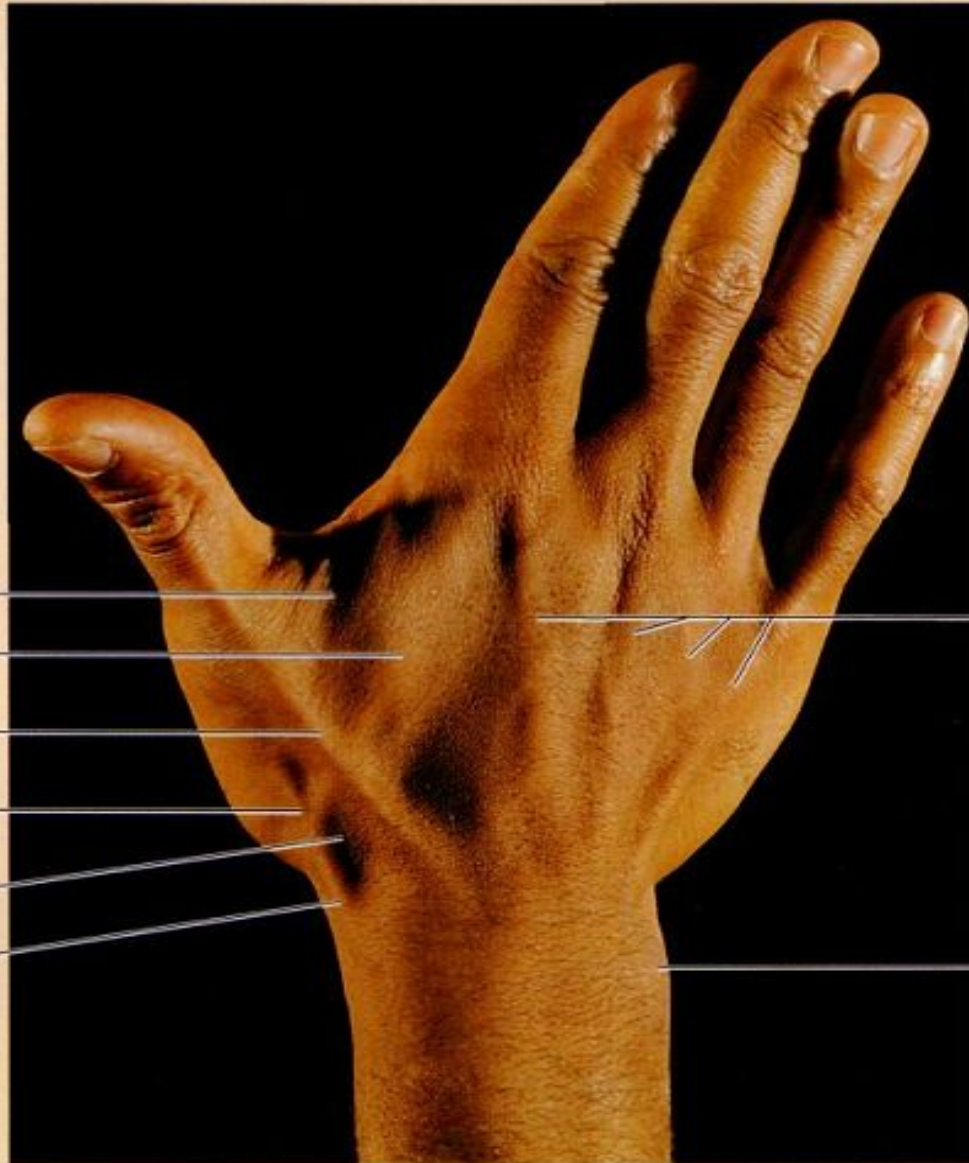
Anatomical snuff box

Tendon of abductor pollicis longus

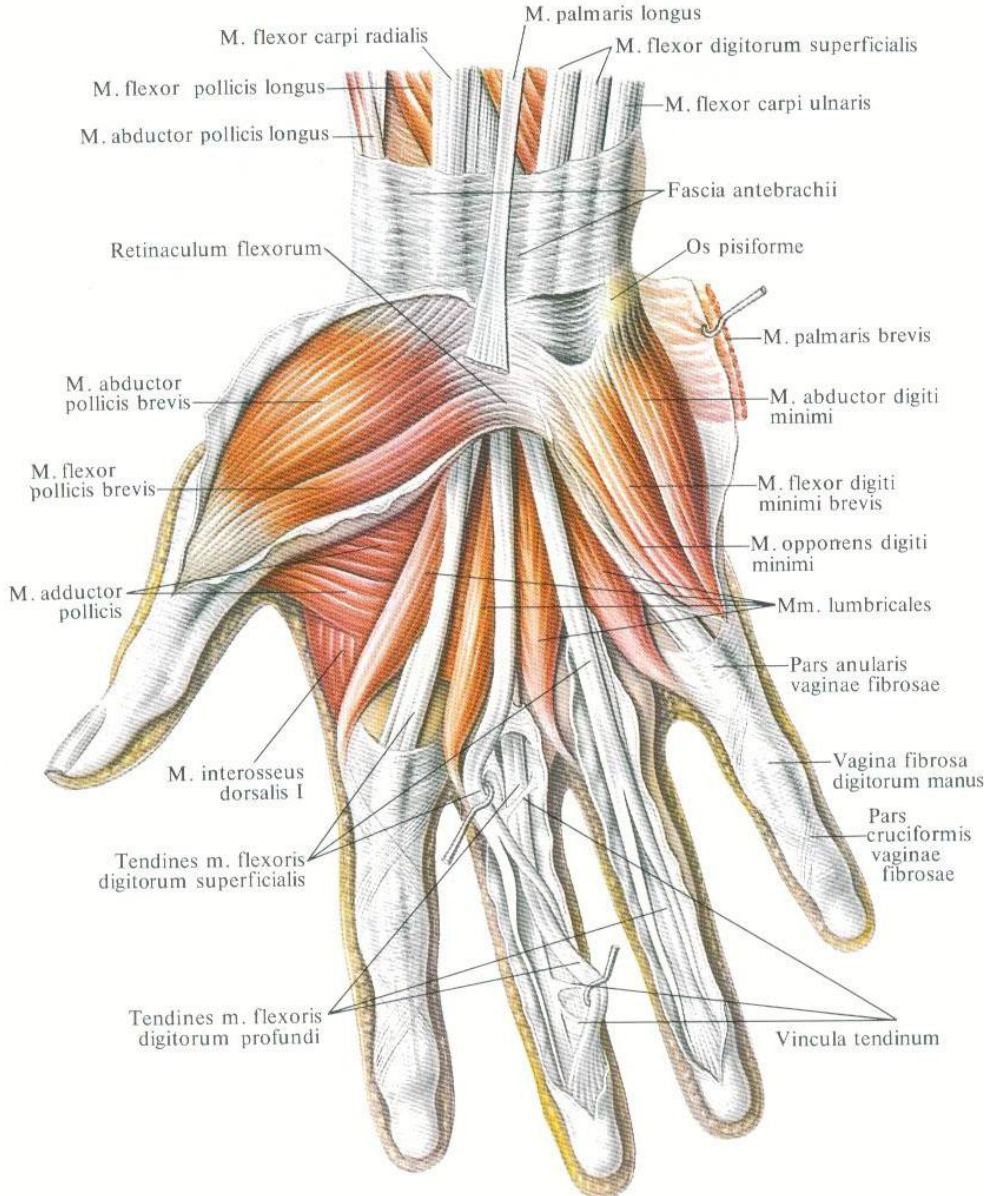
Tendons of extensor digitorum

Head of ulna

(B)



# Retinaculi of the upper limb



## Retinaculum flexorum

### Canalis carpi radialis:

- tendon m. flexor carpi radialis.

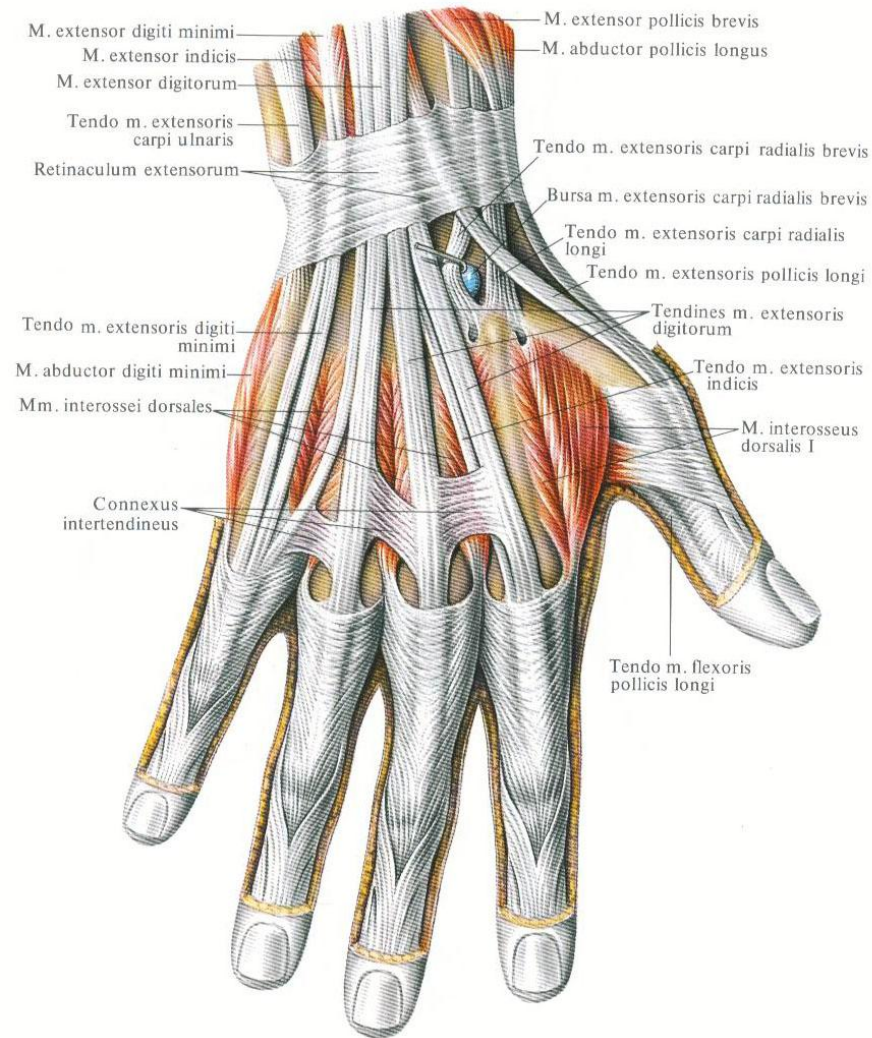
### Canalis carpalis:

- Synovial vagines of tendons of muscles flexor digitorum,
- tendon of m. flexoris pollicis longus,
- nervus medianus.

### Canalis carpi ulnaris:

- Arteria ulnaris
- Vena ulnaris
- Nervus ulnaris

# Retinaculi of the upper limb



## Retinaculum extensorum

/6 canals transmitting tendons/

I - m.abductor pollicis longus  
m.extensor pollicis brevis

II - m.extensor carpi radialis longus  
m.extensor carpi radialis brevis

III - m.extensor pollicis longus

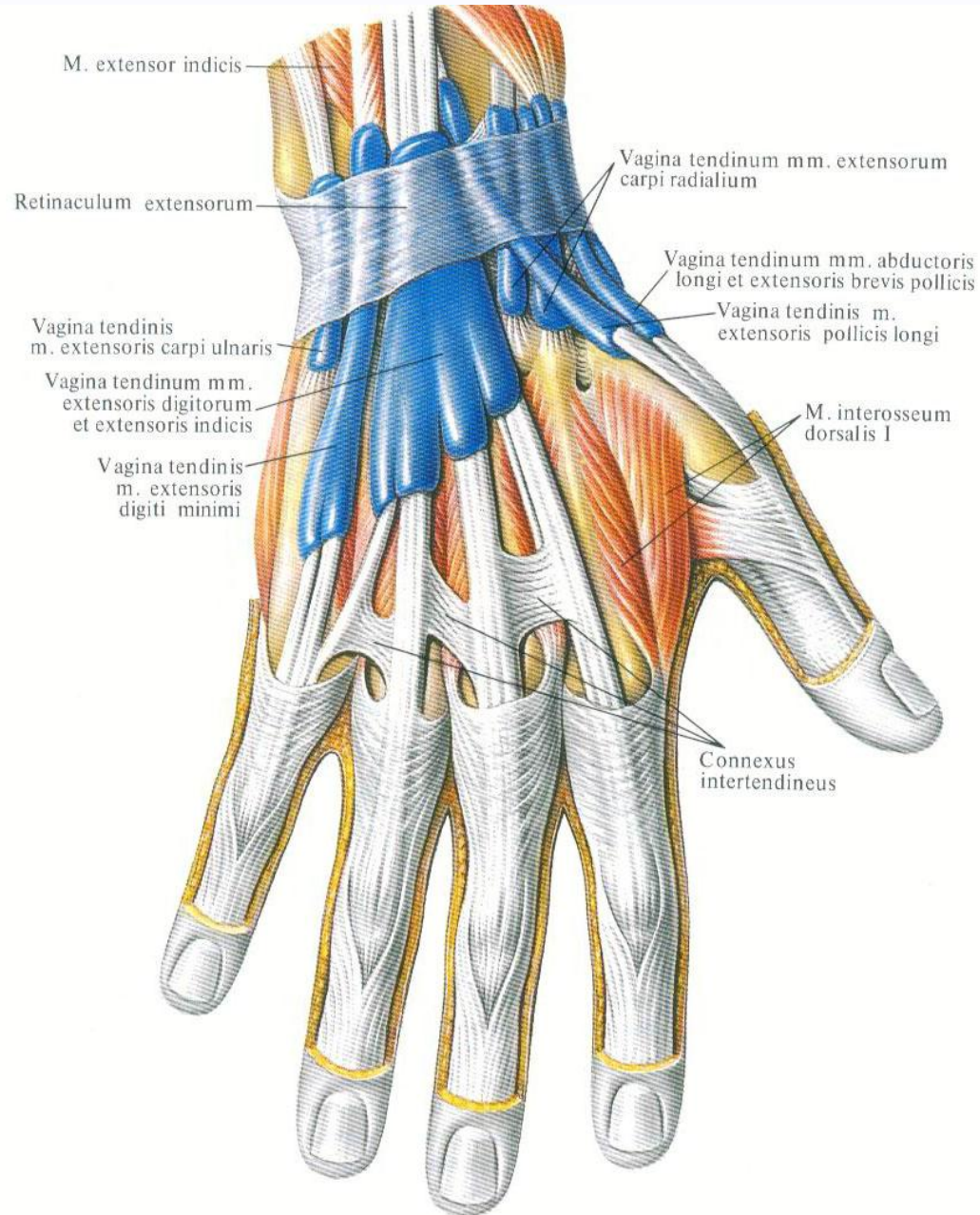
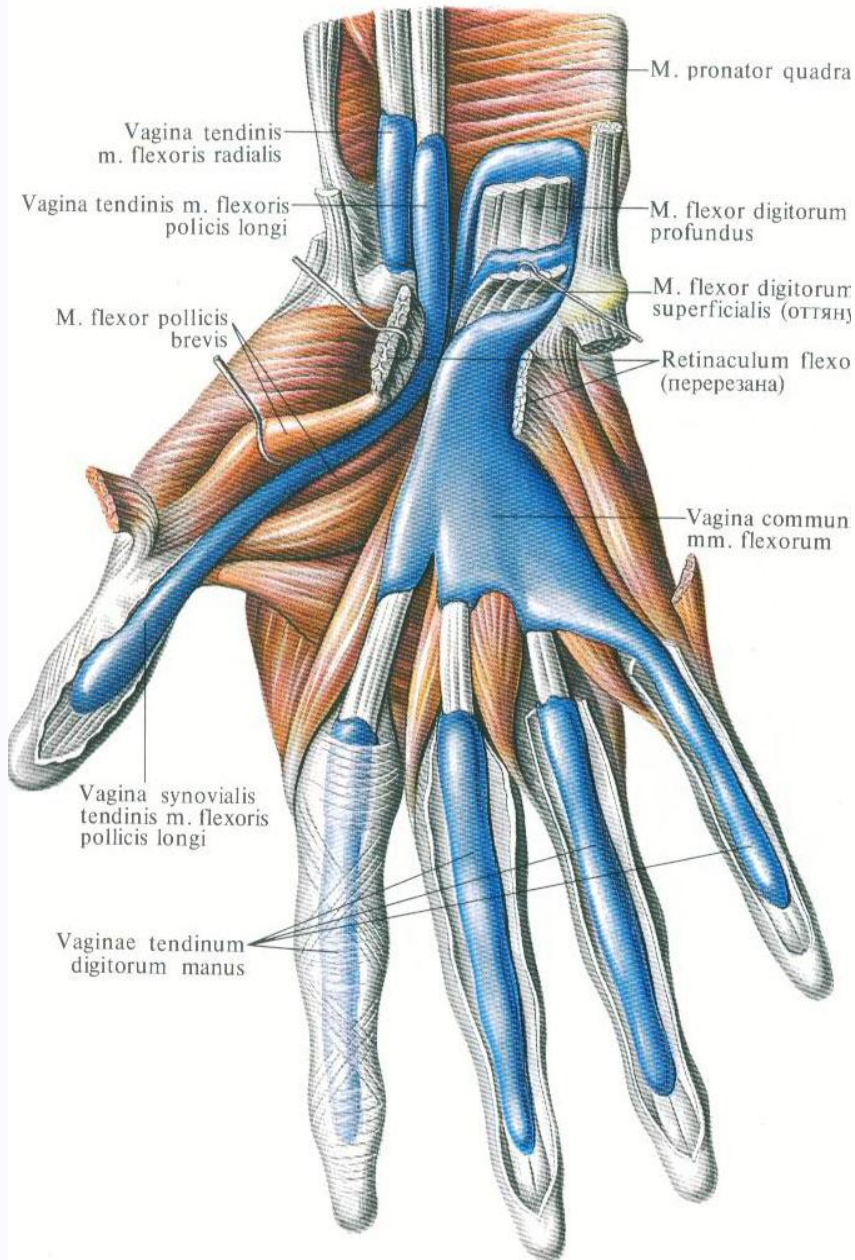
IV – m.extensor digitorum  
m. extensor indicis

V - m. extensor digiti minimi

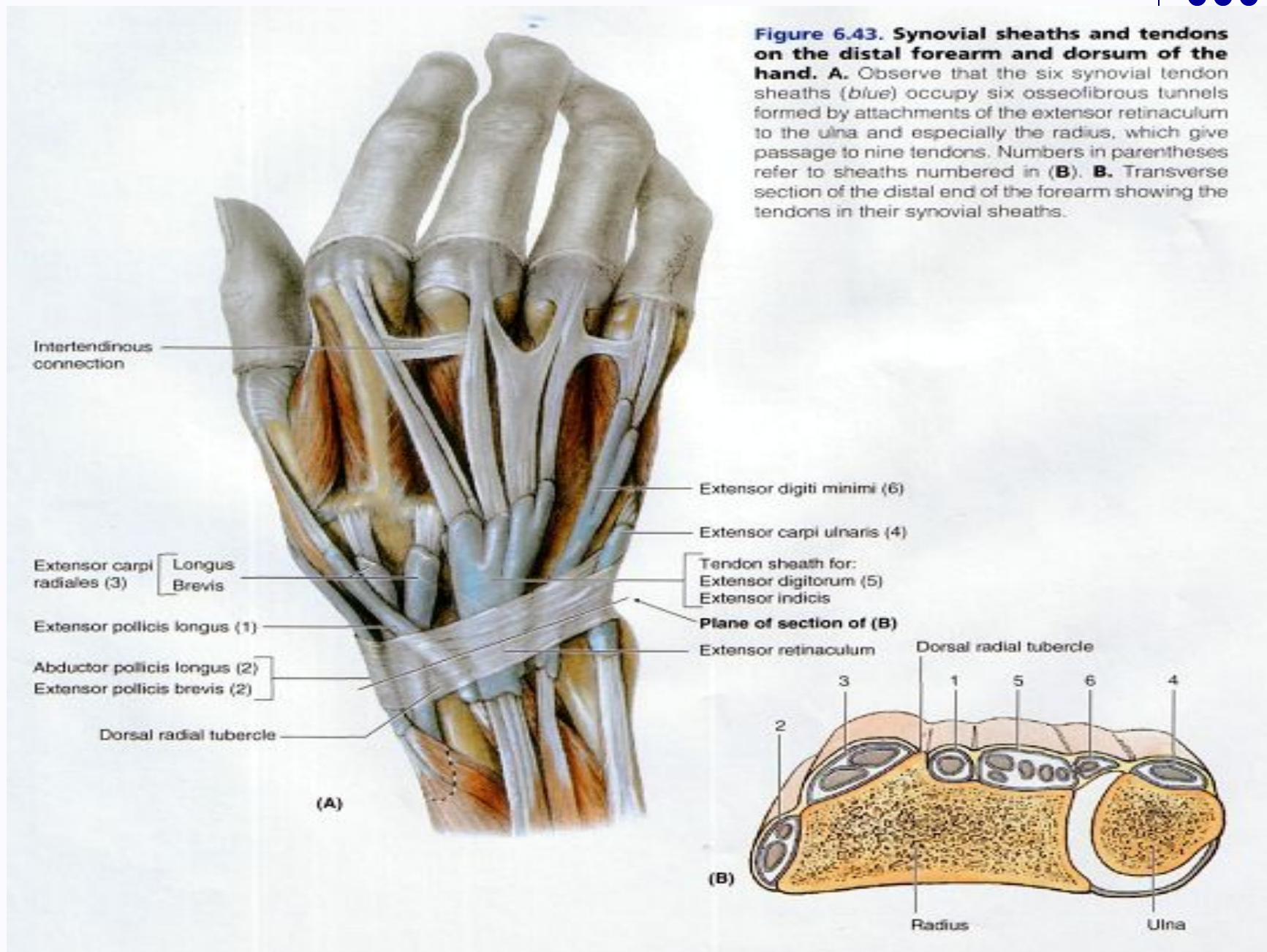
VI – m.extensor carpi ulnaris

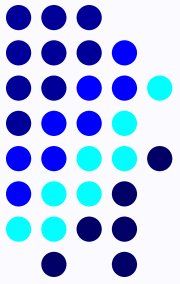


# Synovial sheaths of the palmar and dorsal surface of the hand

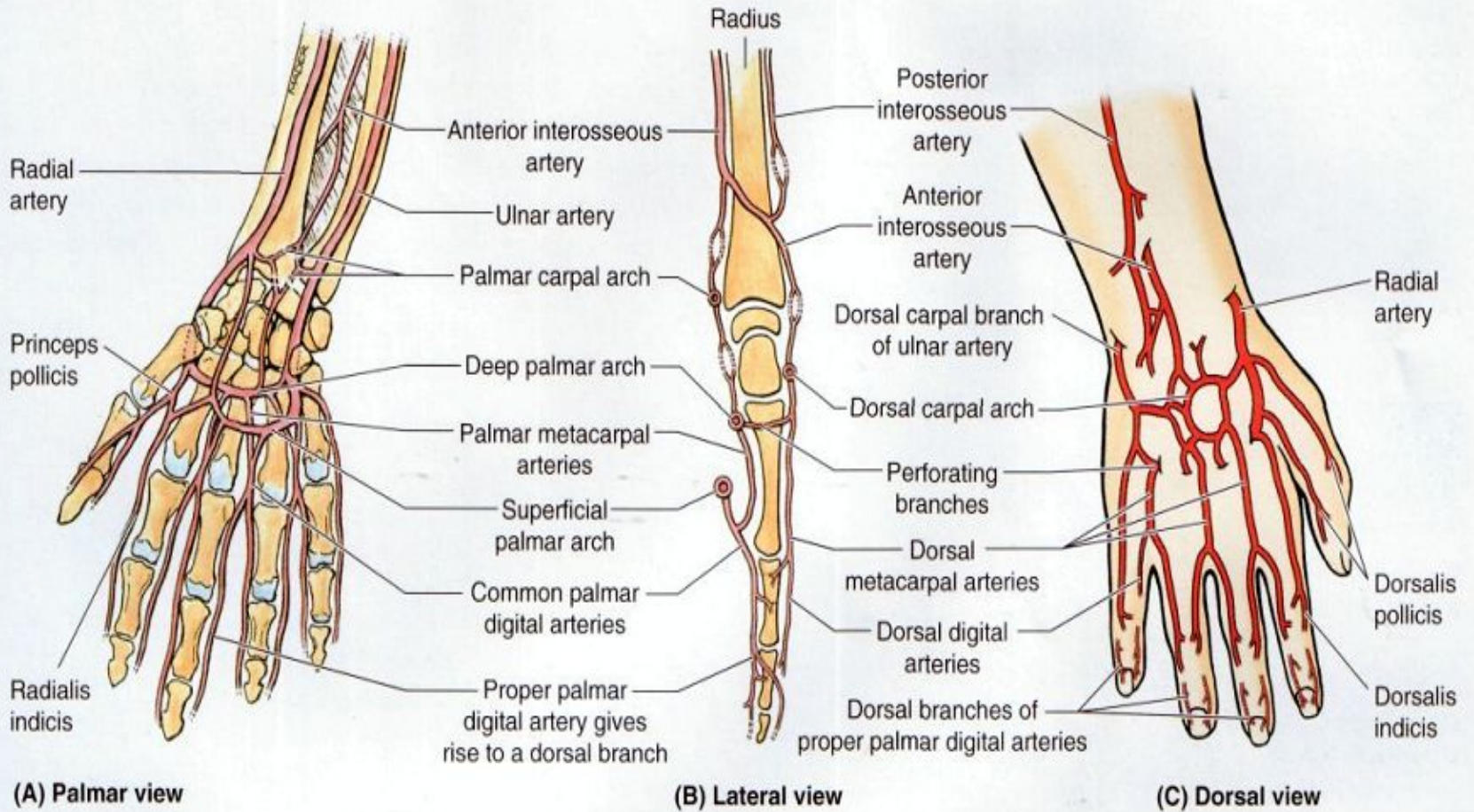




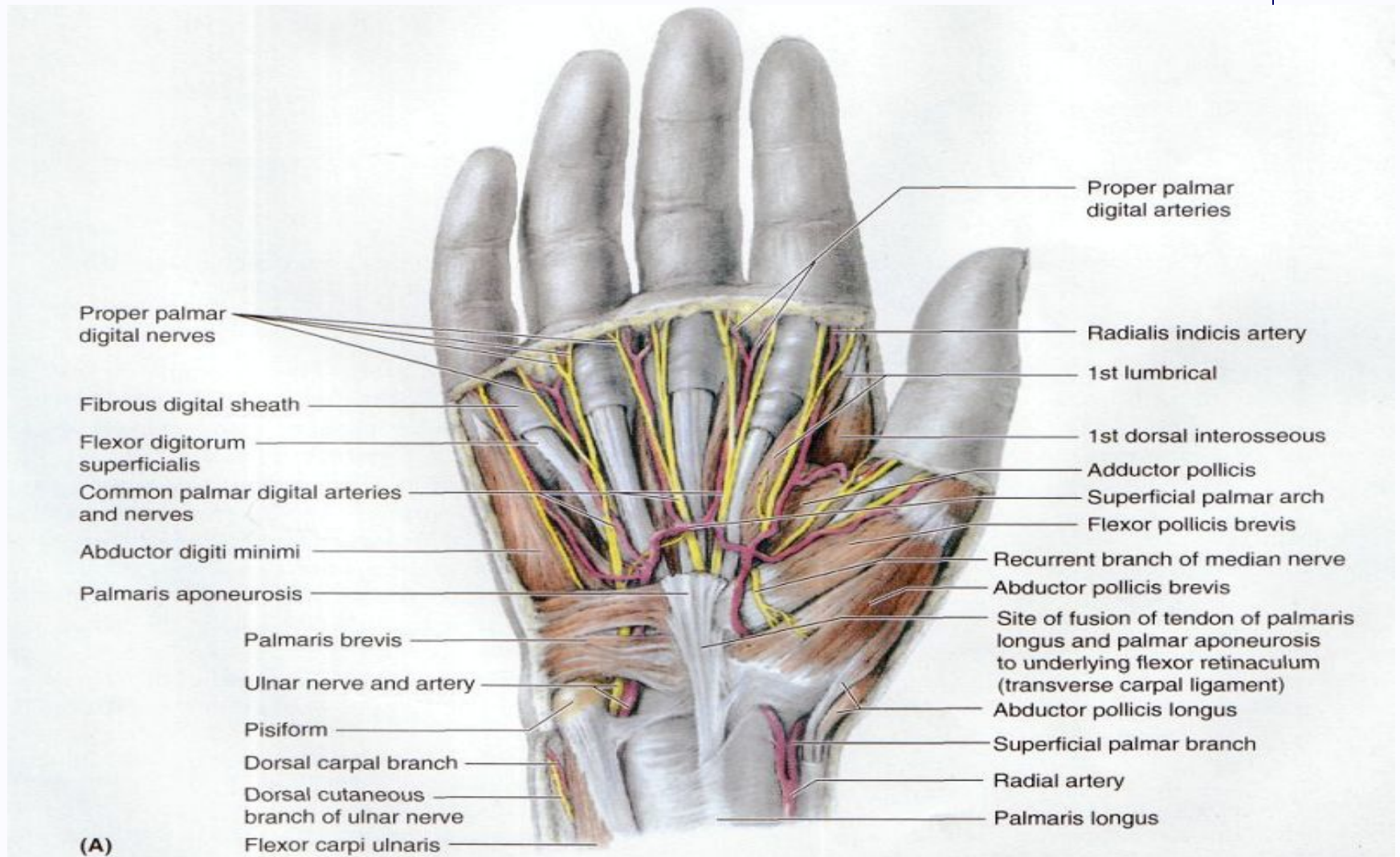
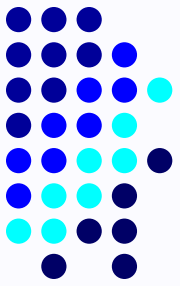




**Table 6.11 Arteries of the hand**







(A)