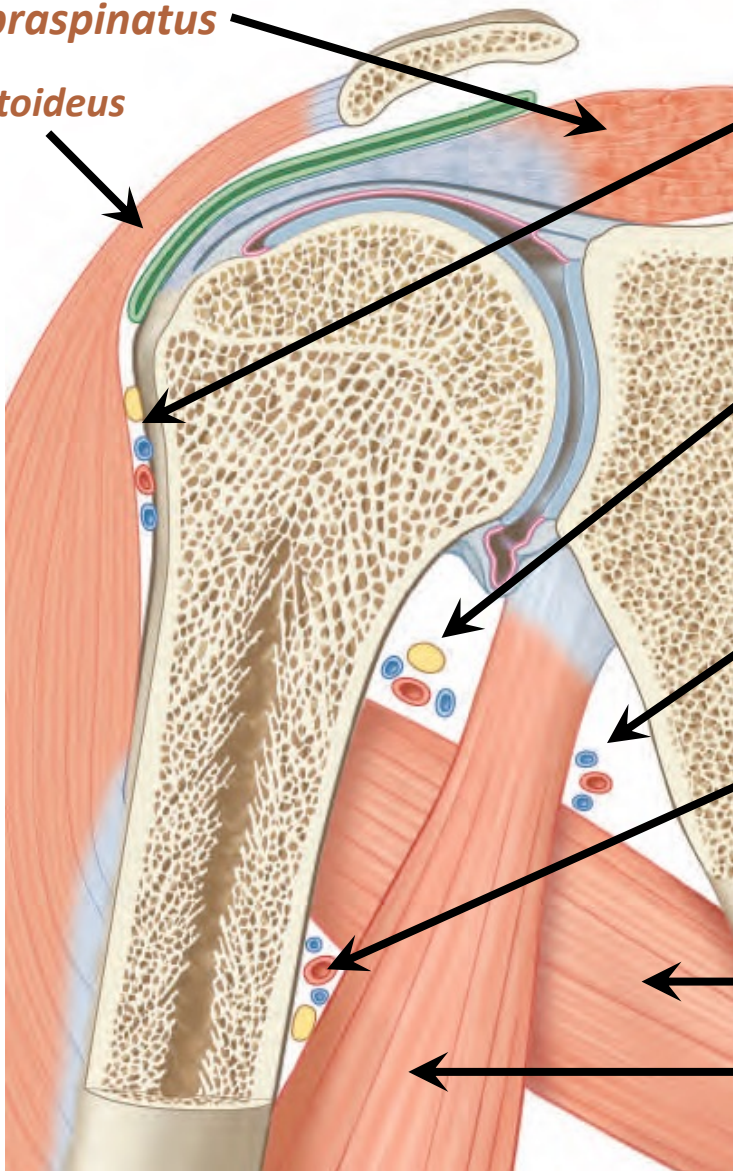


Upper extremity – clinically important topography

Articulatio glenohumeralis - glenohumeral joint

m. supraspinatus

m. deltoideus



♦ **Subdeltoid space: spatium subdeltoidea**

♦ Nervus axillaris

♦ Arteria et vena circumflexa humeri posterior

♦ **Quadrilateral space: foramen humerotricipitale quadrilaterale**

♦ Nervus axillaris

♦ Arteria et vena circumflexa humeri posterior

♦ **Trilateral space: foramen omotricipitale trilaterale**

♦ Vasa circumflexa scapulae

♦ **Interval trigon: intervalum trigonum**

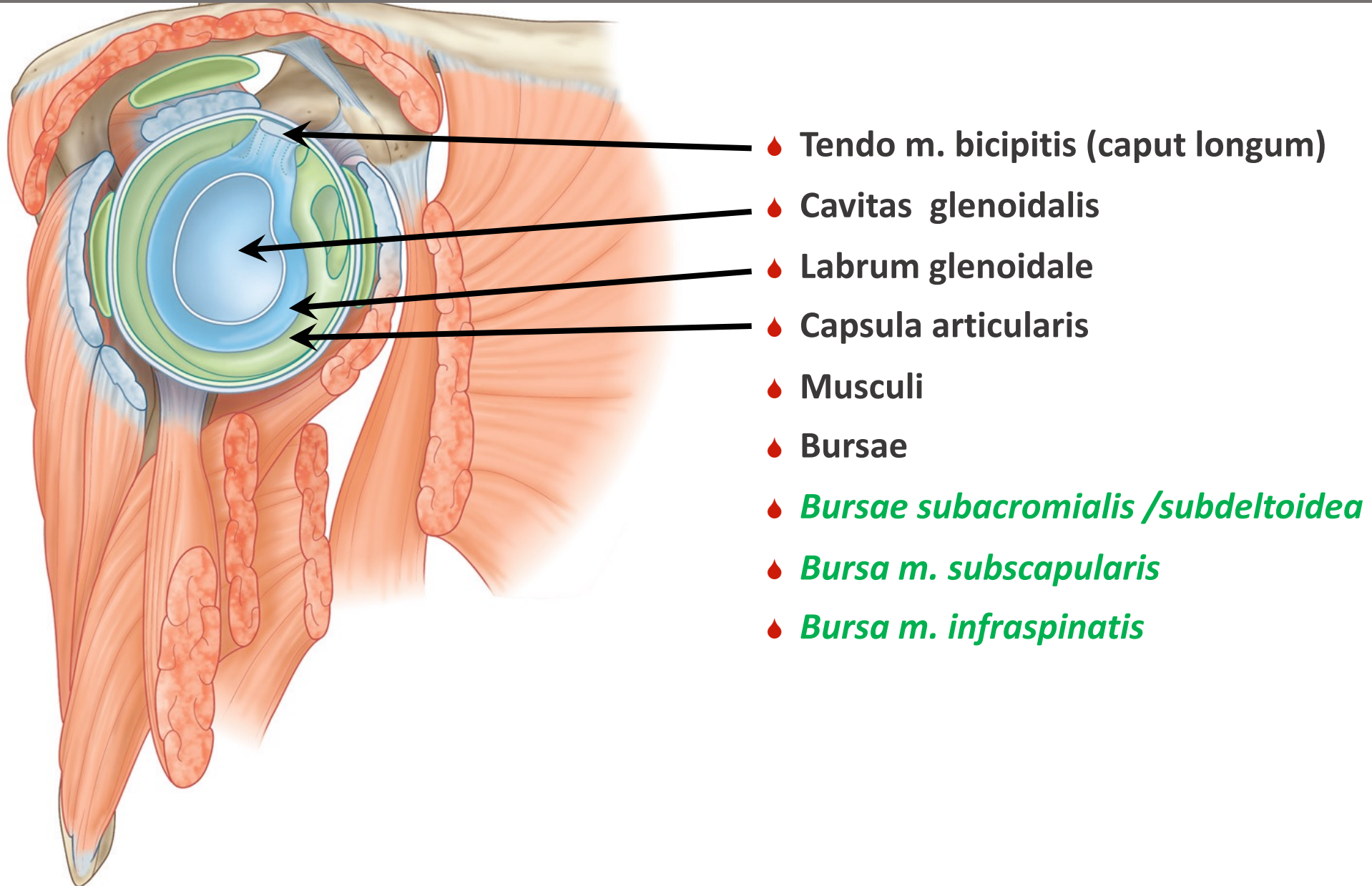
♦ Nervus radialis

♦ Arteria et vena brachialis profunda

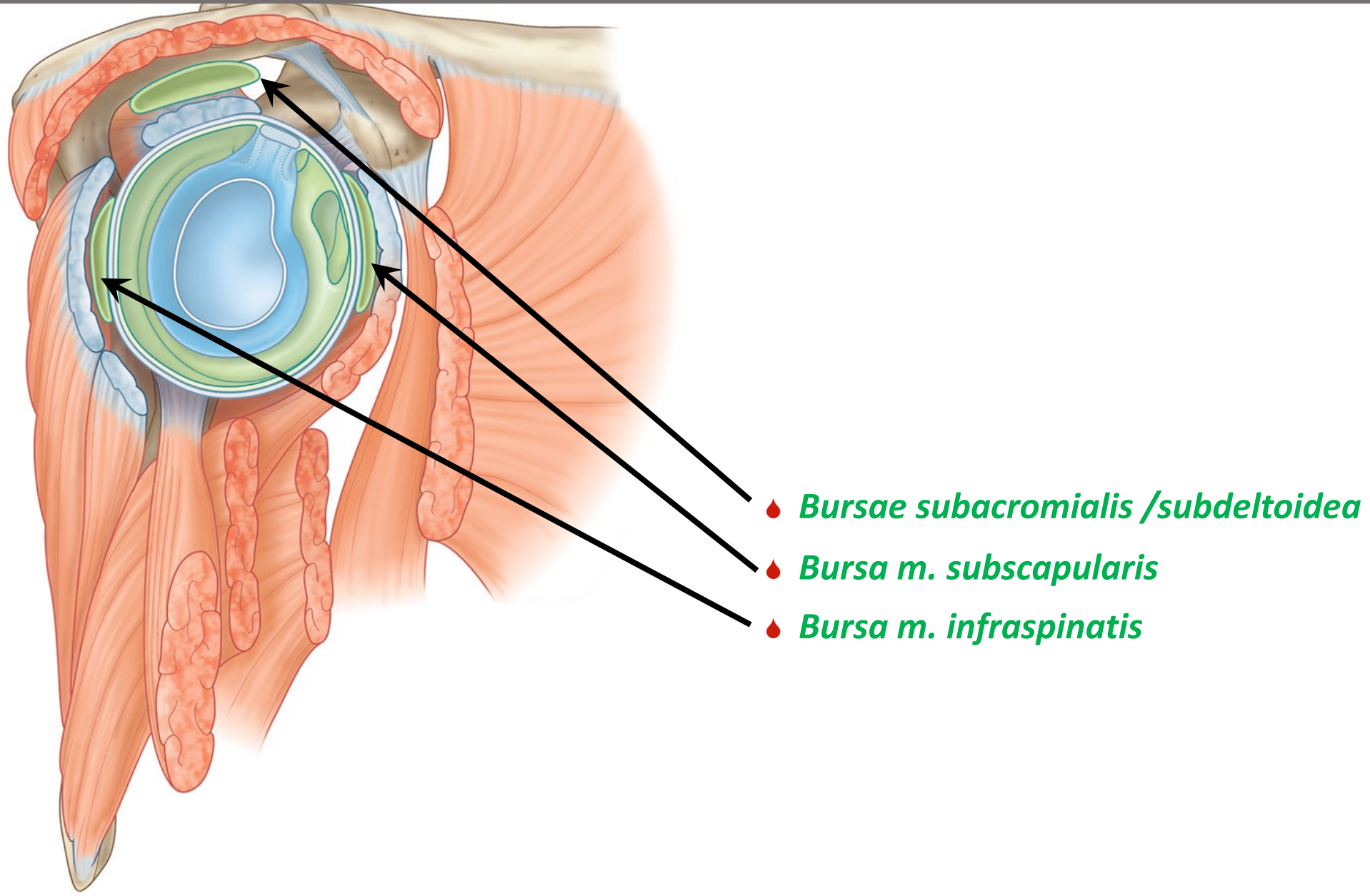
m. teres major

m. triceps humeri, caput longum

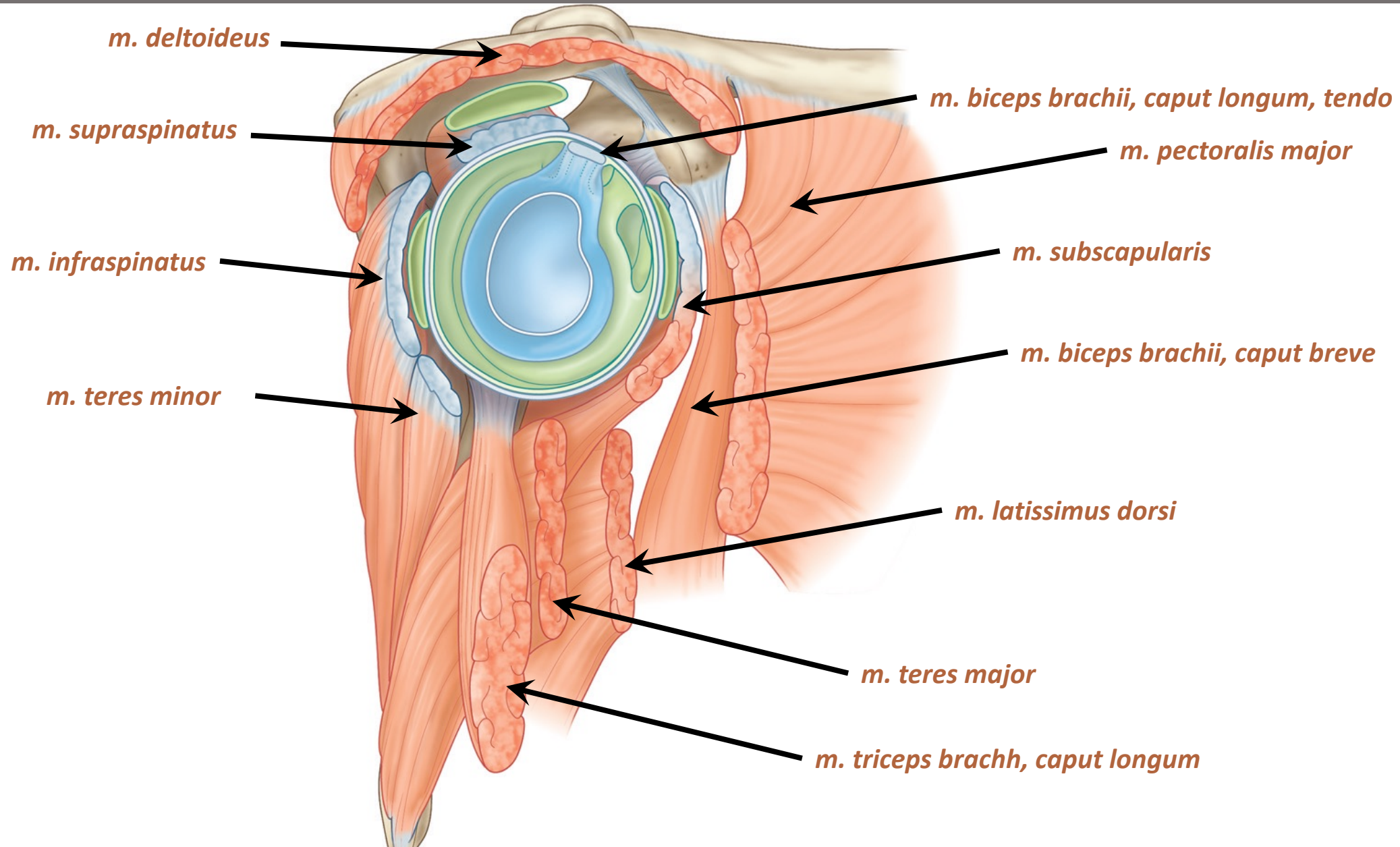
Articulatio glenohumeralis - glenohumeral joint



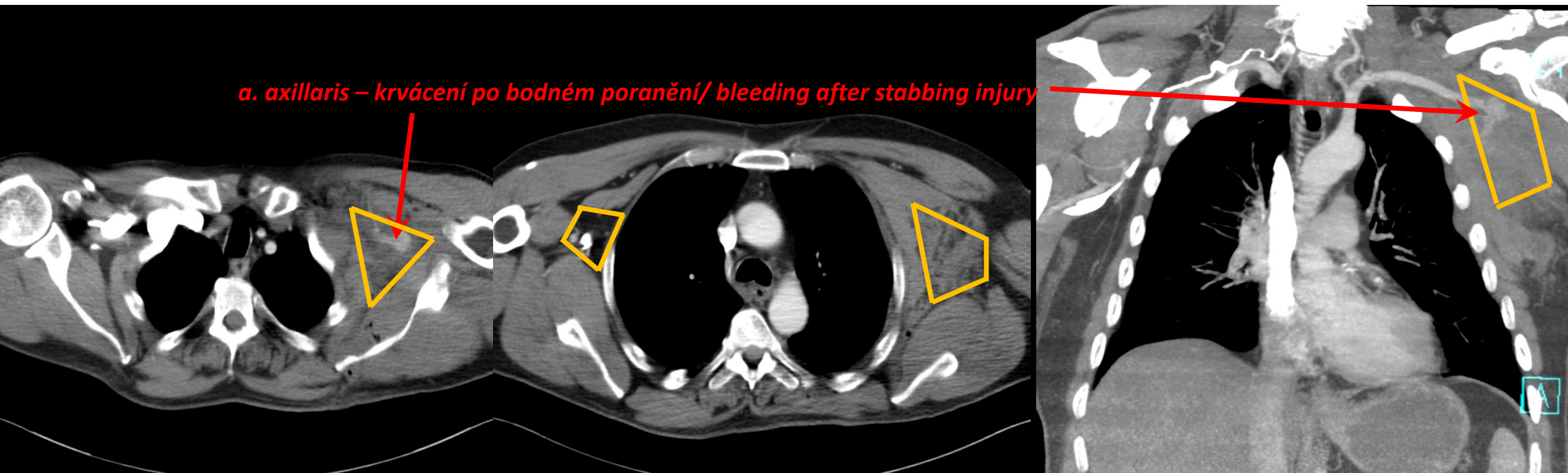
Articulatio glenohumeralis - glenohumeral joint



Articulatio glenohumeralis - glenohumeral joint



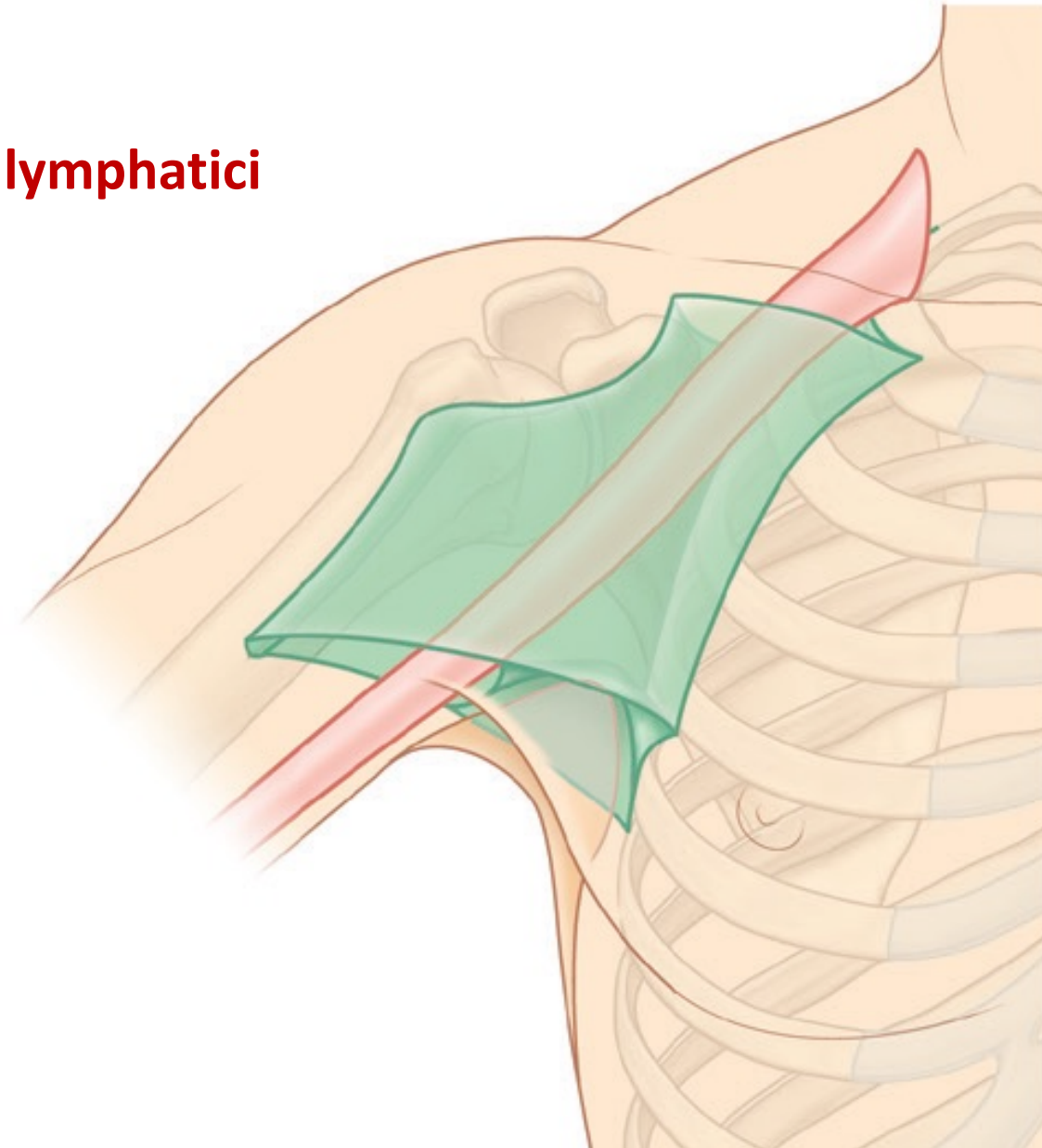
axilla



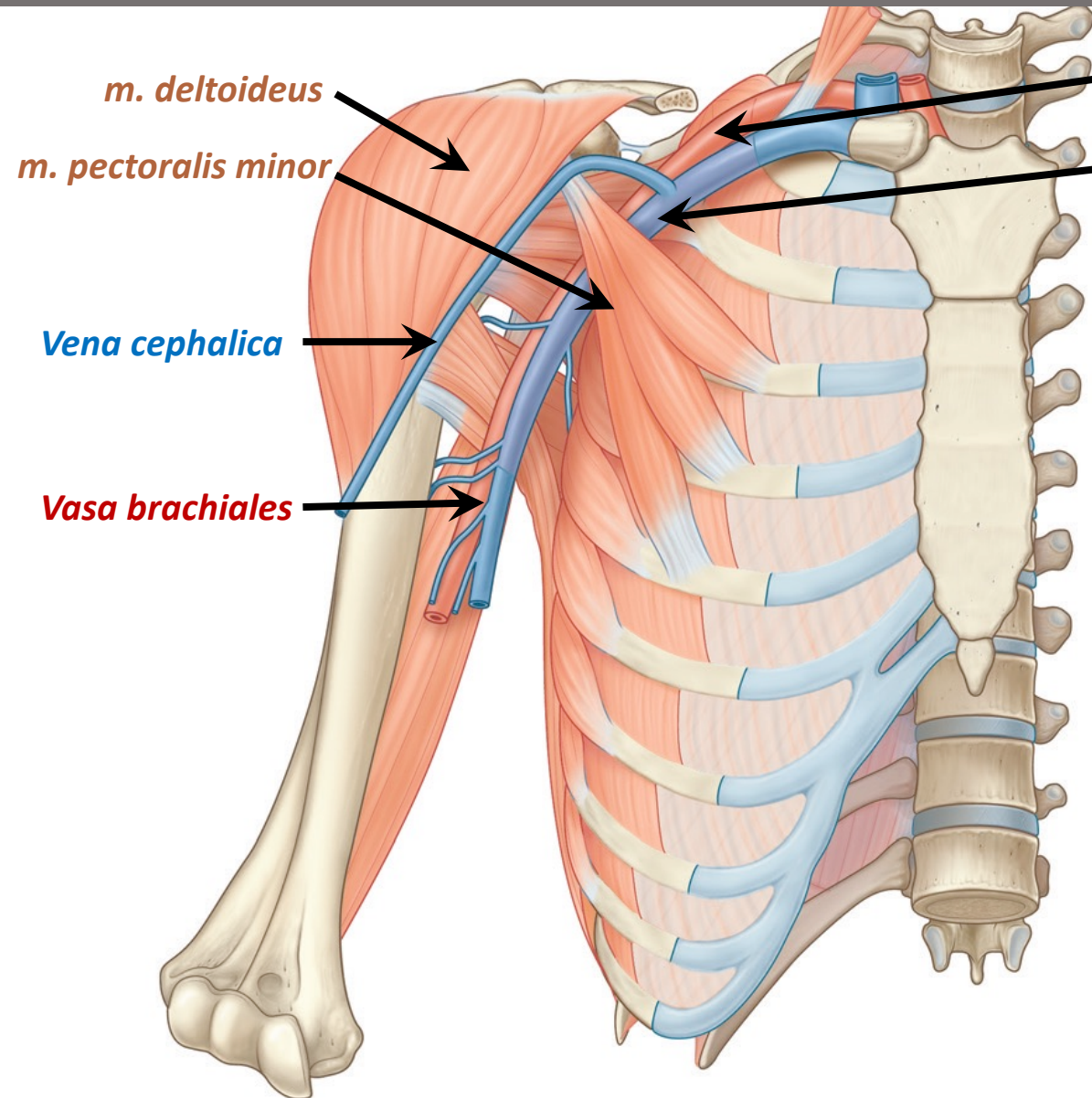
CT – výpočetní tomografie/computed tomography

axilla

- ♦ **Nervi, arteriae et venae, vasa lymphatica et nodi lymphatici**
- ♦ **Vstup / inlet** - *clavicula, costa l. , scapula*
- ♦ **Přední stěna / anterior wall**
 - ♦ *m. pectoralis major et minor*
- ♦ **Mediální stěna / medial wall**
 - ♦ *hrudní stěna, m. serratus anterior*
- ♦ **Zadní stěna / posterior wall**
 - ♦ *m. subscapularis, m. teres major, m. latissimus dorsi*
 - ♦ *m. triceps brachii caput longum*
- ♦ **Laterální stěna / lateral wall**
 - ♦ *Sulcus intertubercularis*
- ♦ **Dno / bottom** - *kožní kryt axily / skin*



axilla



♦ **Arteria axillaris**

♦ **Vena axillaris**

♦ **Nodi lymphatici – tři úrovně/three levels**

♦ *I nodi humerales + pectorales,*

♦ *II - nodi centrales*

♦ *III - nodi apicales, infraclaviculares*

♦ **Plexus brachialis**

♦ **Horní část – upper part - divisiones**

♦ *Přední a zadní oddíl / anterior and posterior part*

♦ **Střední část – middle part fasciculi**

♦ *medialis, lateralis, posterior fasciculi/fascicles*

♦ **Dolní část – lower part - nervi**

♦ *N. axillaris*

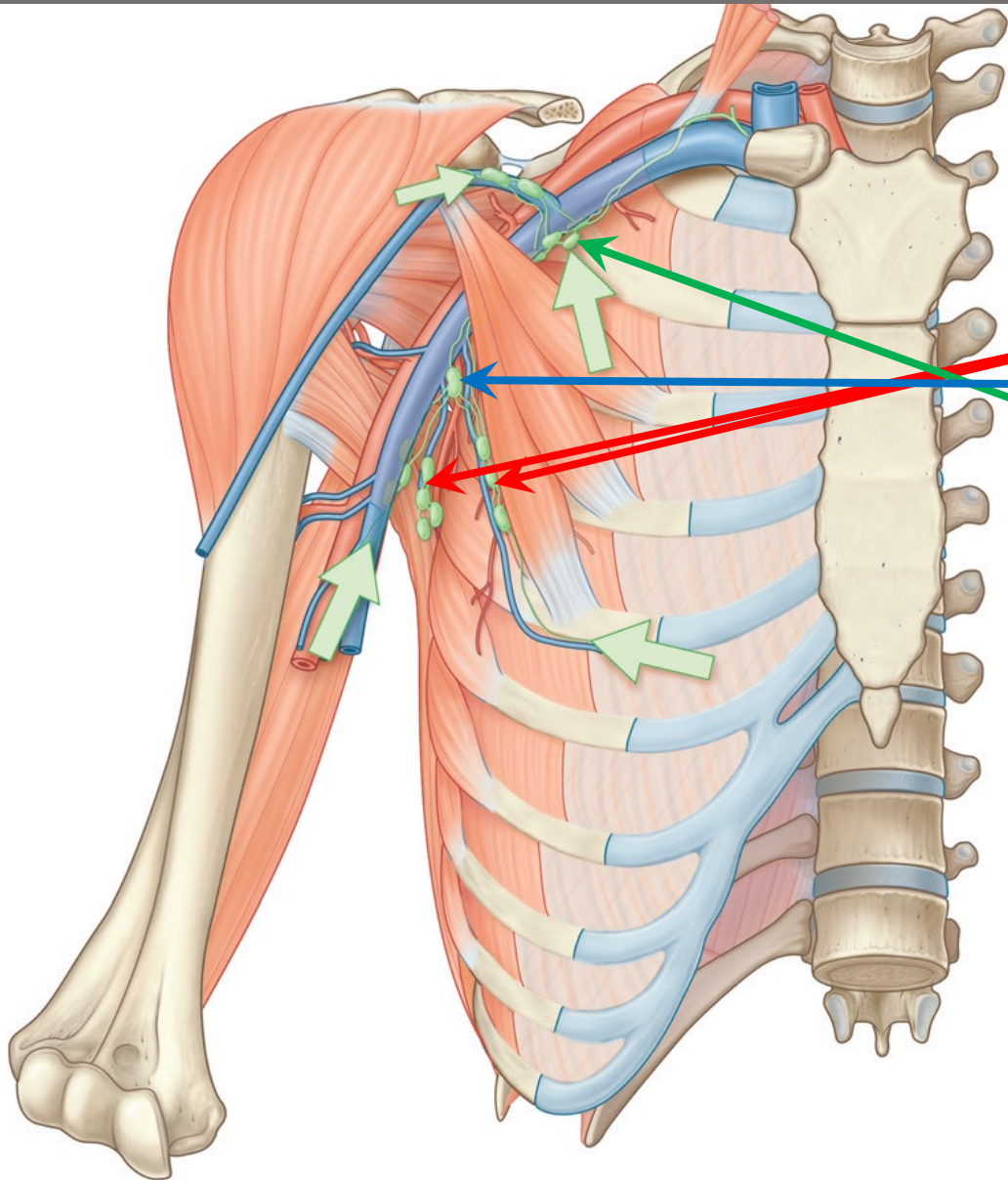
♦ *N. musculocutaneus*

♦ *N. radialis*

♦ *N. medianus*

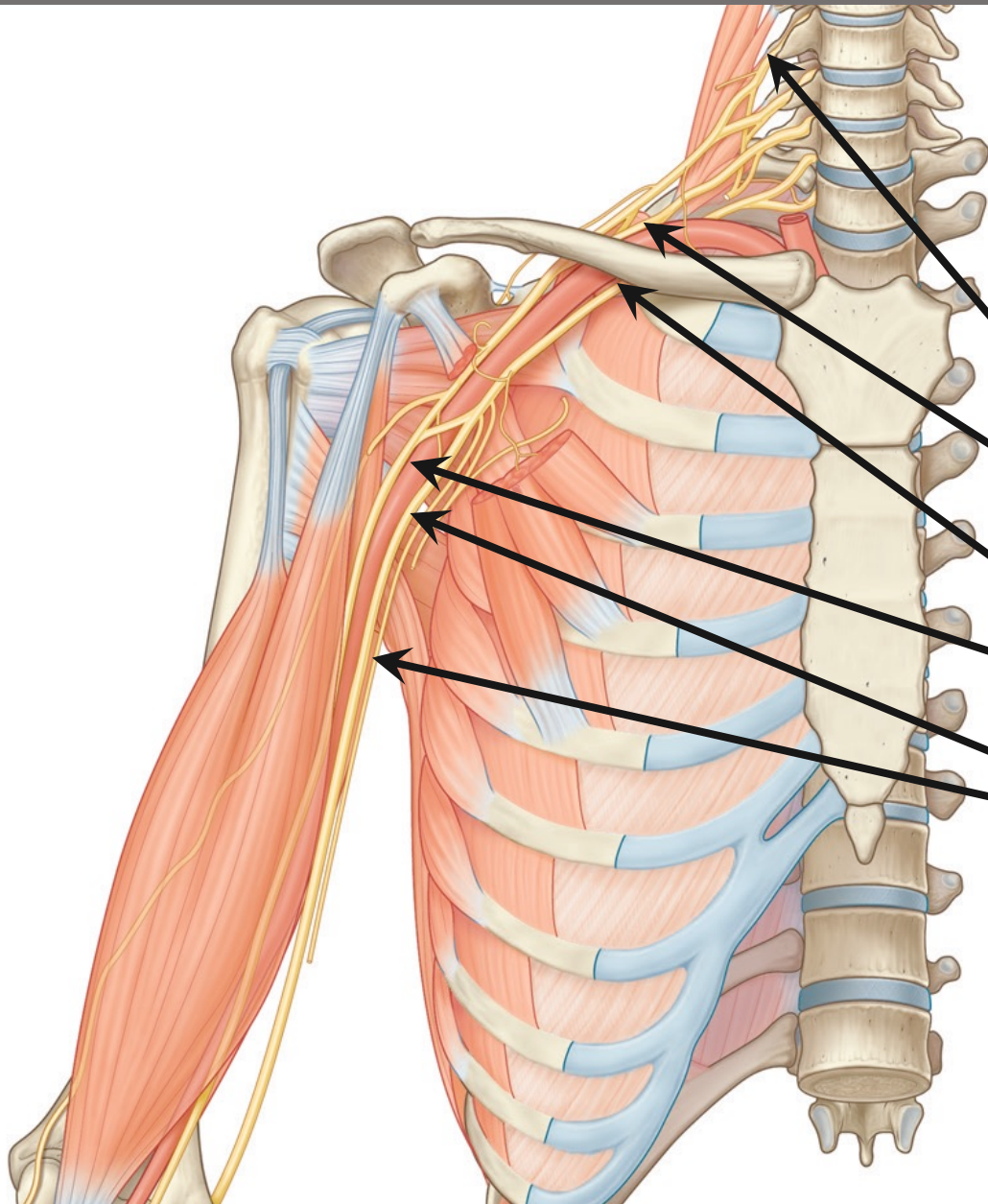
♦ *N. ulnaris*

axilla



- ♦ **Vena axillaris**
- ♦ **Arteria axillaris**
- ♦ **Nodi lymphatici – tři úrovně/three levels**
 - ♦ *I nodi humerales + pectorales,*
 - ♦ *II - nodi centrales*
 - ♦ *III - nodi apicales, infraclaviculares*
- ♦ **Plexus brachialis**
 - ♦ **Horní část – upper part - divisiones**
 - ♦ *Přední a zadní oddíl / anterior and posterior part*
 - ♦ **Střední část – middle part fasciculi**
 - ♦ *medialis, lateralis, posterior fasciculi/fascicles*
 - ♦ **Dolní část – lower part - nervi**
 - ♦ *N. axillaris*
 - ♦ *N. musculocutaneus*
 - ♦ *N. radialis*
 - ♦ *N. medianus*
 - ♦ *N. ulnaris*

axilla



♦ **Vena axillaris**

♦ **Arteria axillaris**

♦ **Nodi lymphatici – tři úrovně/three levels**

♦ *I nodi humerales + pectorales,*

♦ *II - nodi centrales*

♦ *III - nodi apicales, infraclaviculares*

♦ **Plexus brachialis**

♦ **Horní část – upper part - divisiones**

♦ *Přední a zadní oddíl / anterior and posterior part*

♦ **Střední část – middle part fasciculi**

♦ *medialis, lateralis, posterior fasciculi/fascicles*

♦ **Dolní část – lower part - nervi**

♦ *N. axillaris*

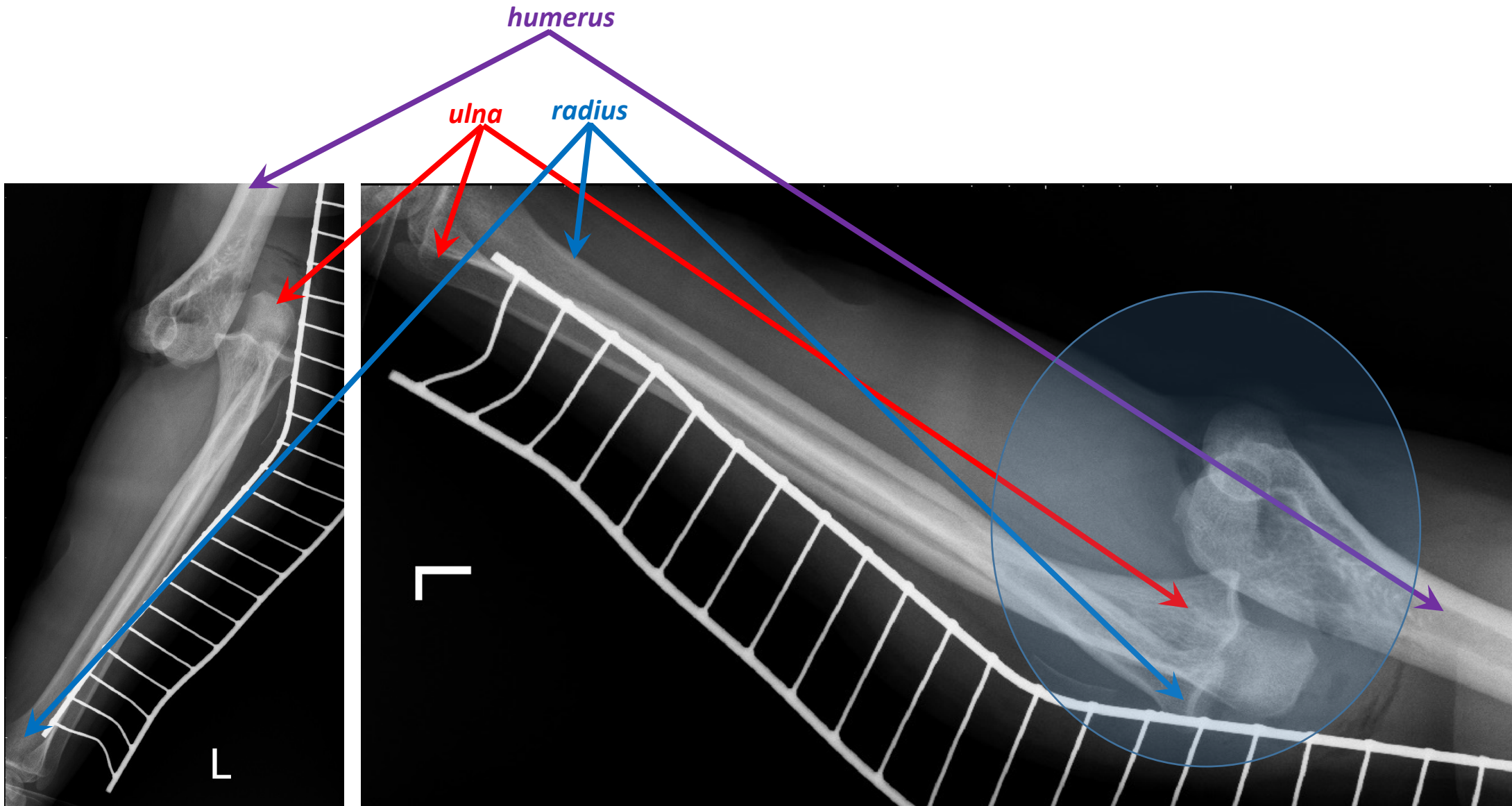
♦ *N. musculocutaneus*

♦ *N. radialis*

♦ *N. medianus*

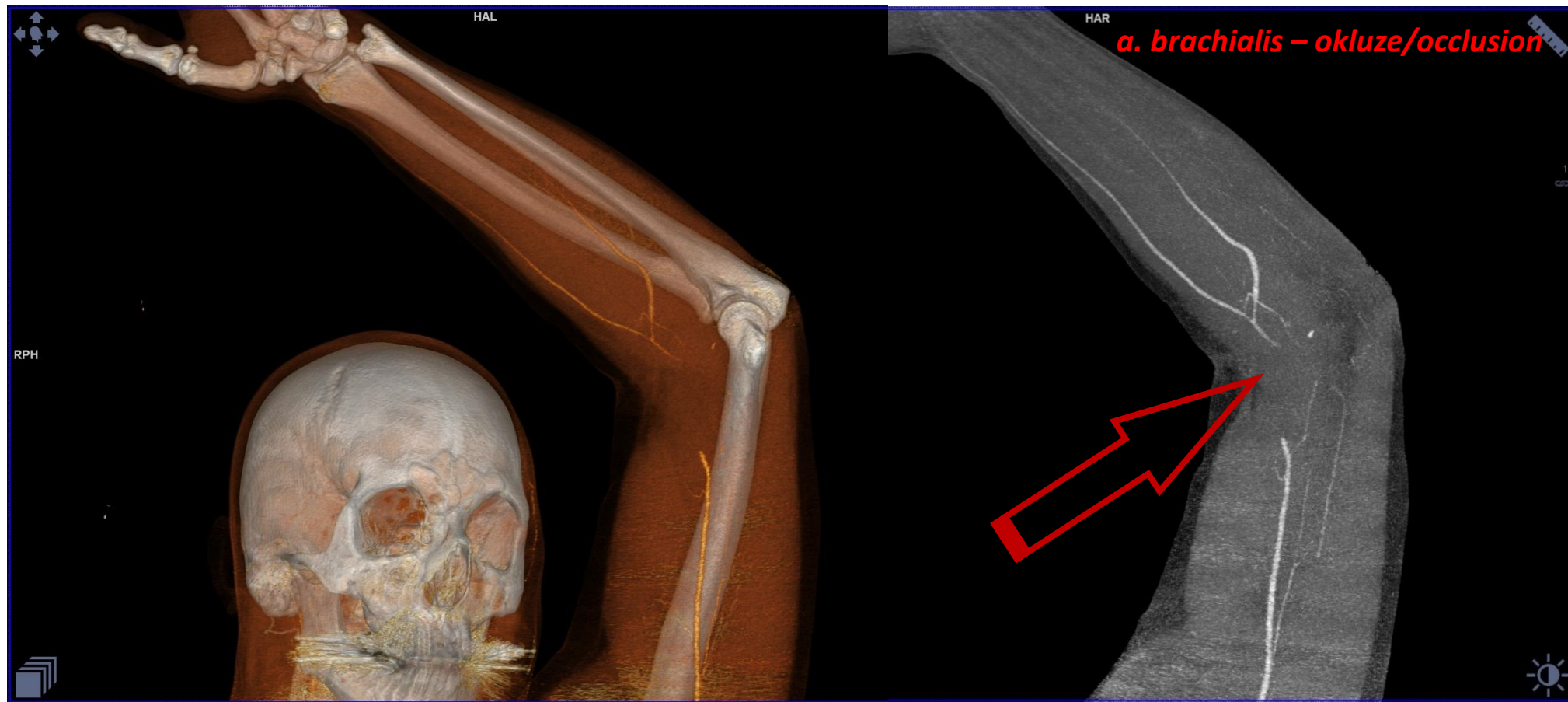
♦ *N. ulnaris*

regio cubiti, fossa cubiti

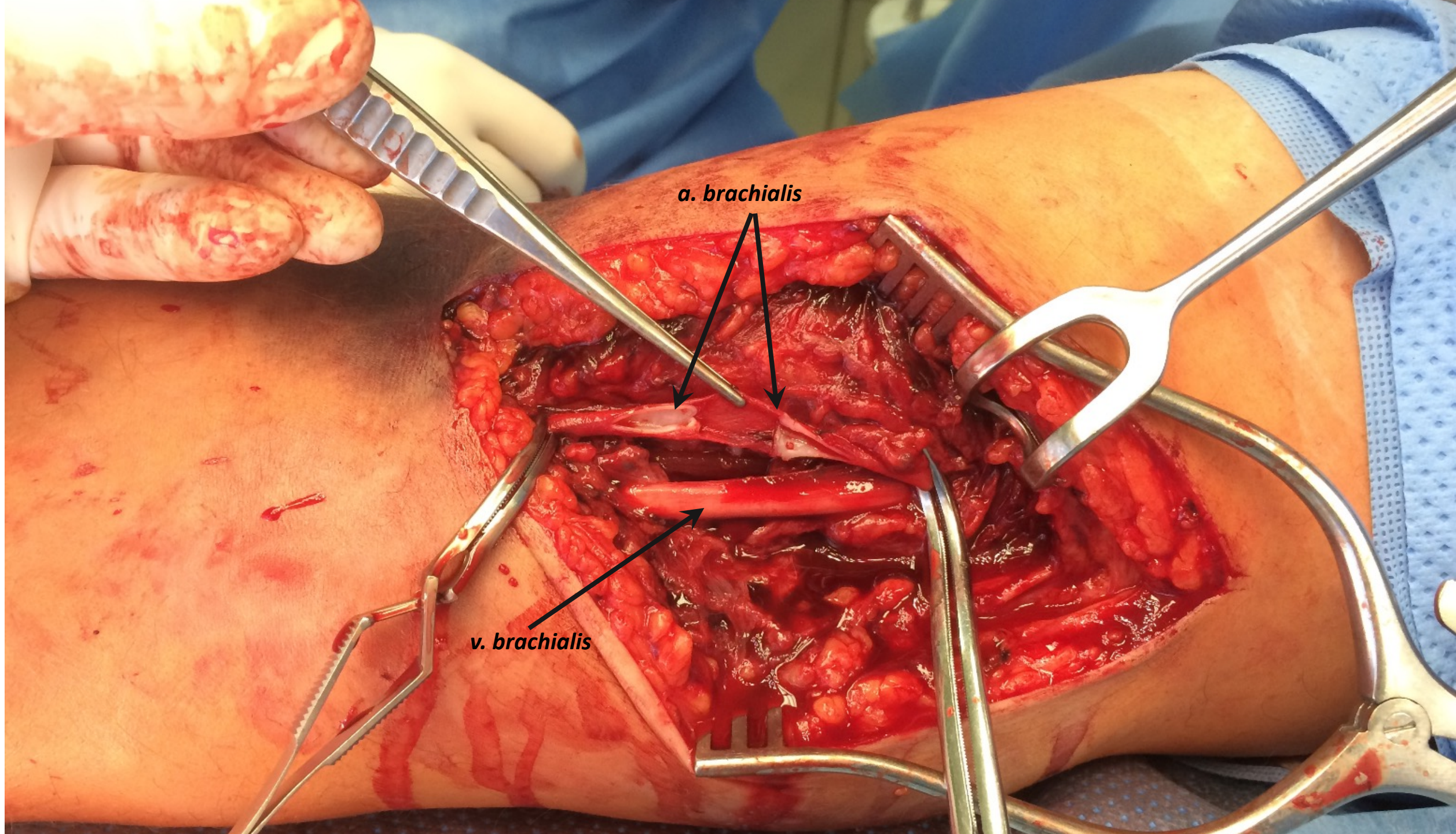


RTG/X-ray – luxatio cubiti

regio cubiti, fossa cubiti



CT – angiografie / CT - angiography

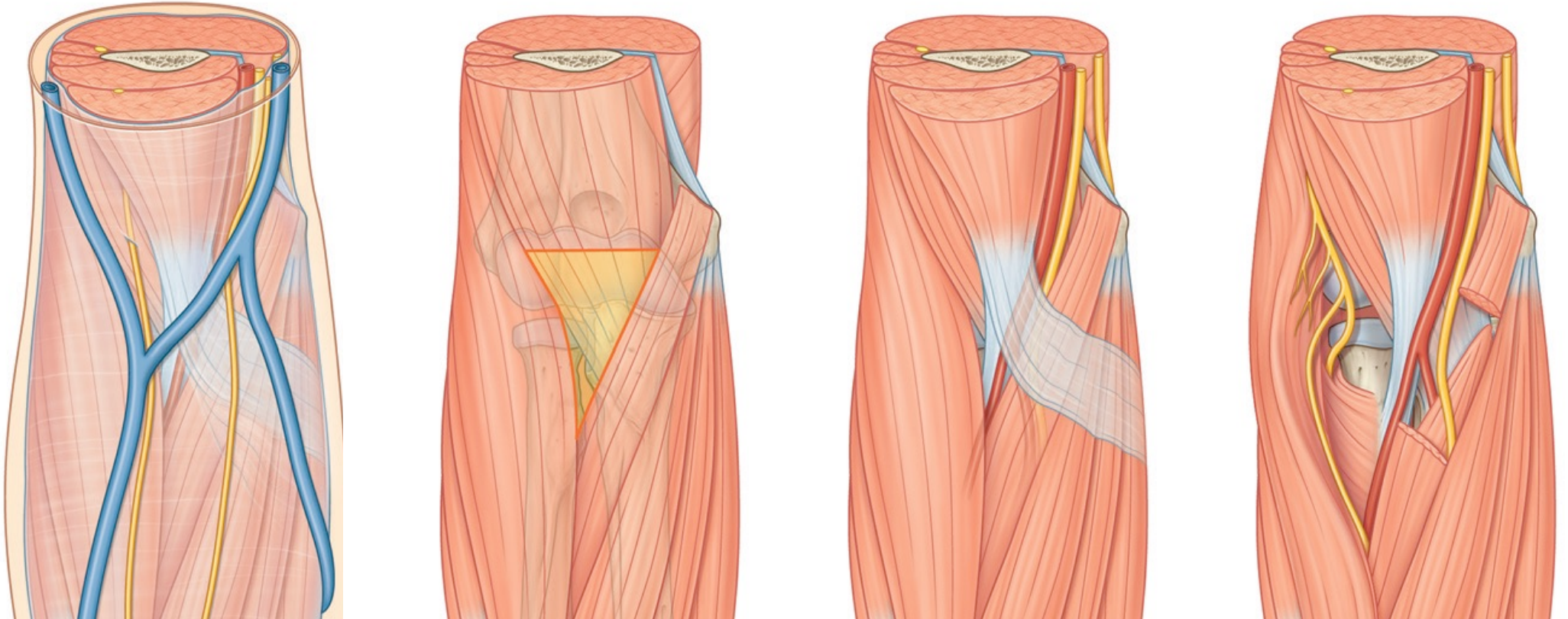


a. brachialis

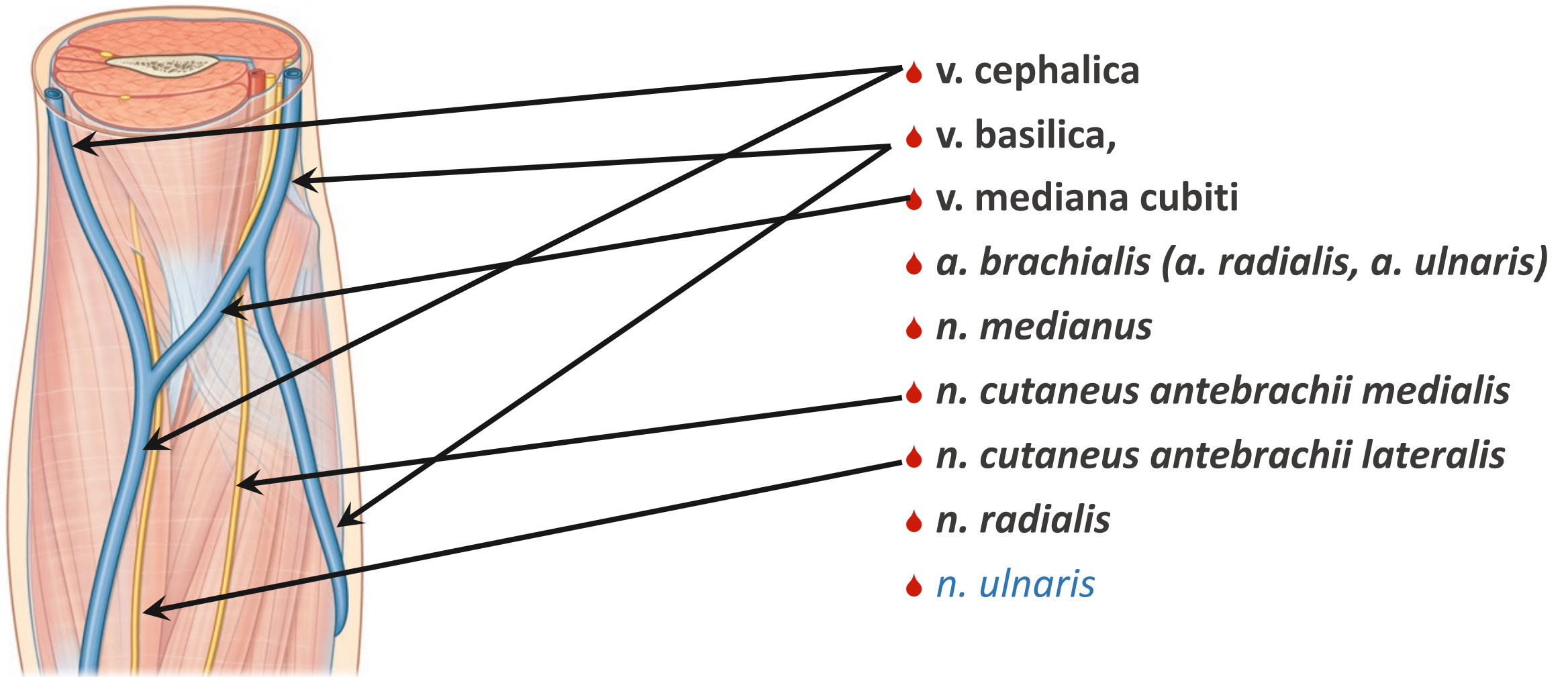
v. brachialis

fossa cubiti

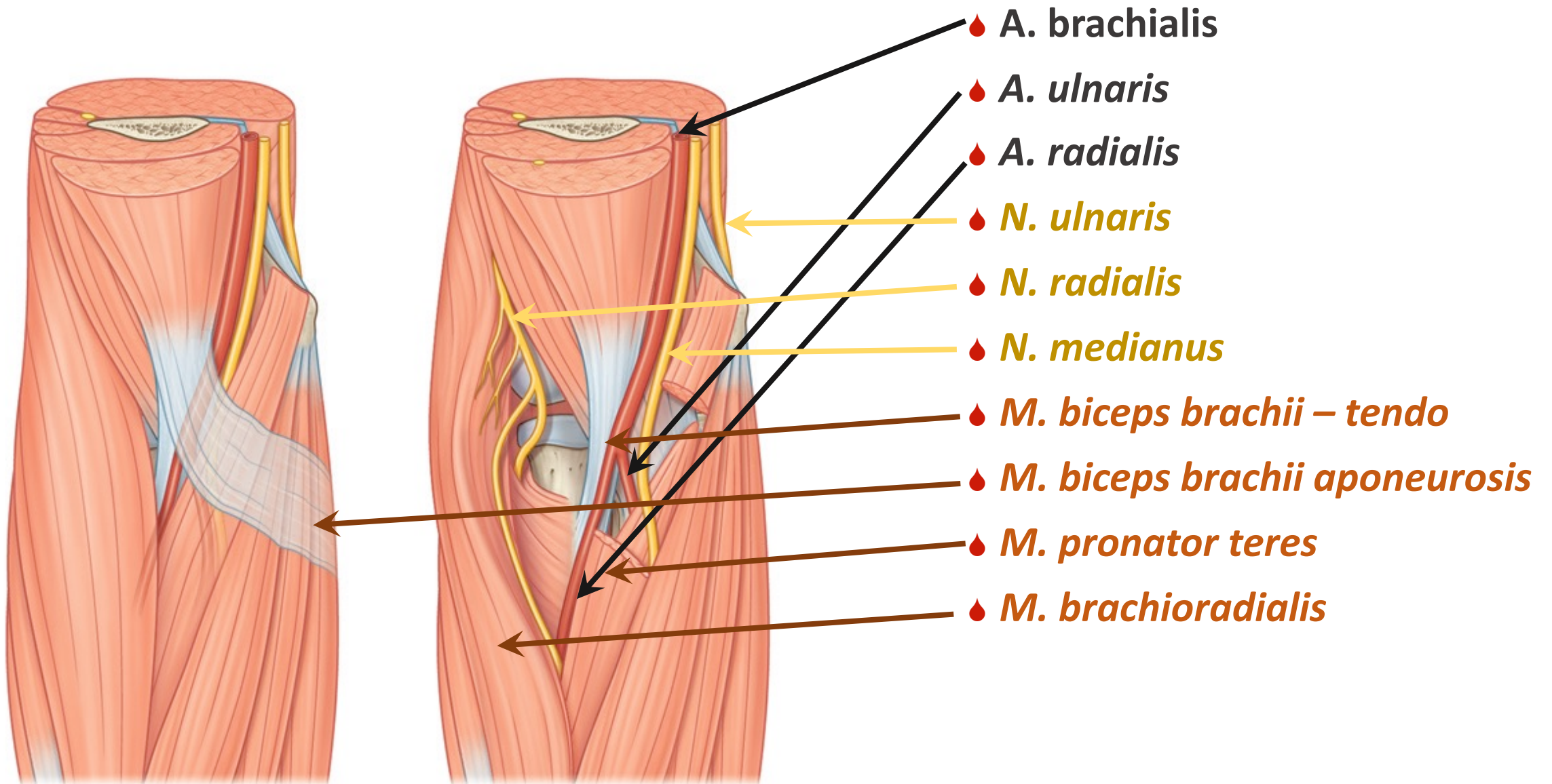
- v. cephalica, v. basilica, v. mediana cubiti
- a. brachialis (a. radialis, a. ulnaris), n. medianus, n. cutaneus antebrachii med, lat., n. radialis
- *CAVE: N. ulnaris - za mediálným epikondylem / behind medial epicondylus !*



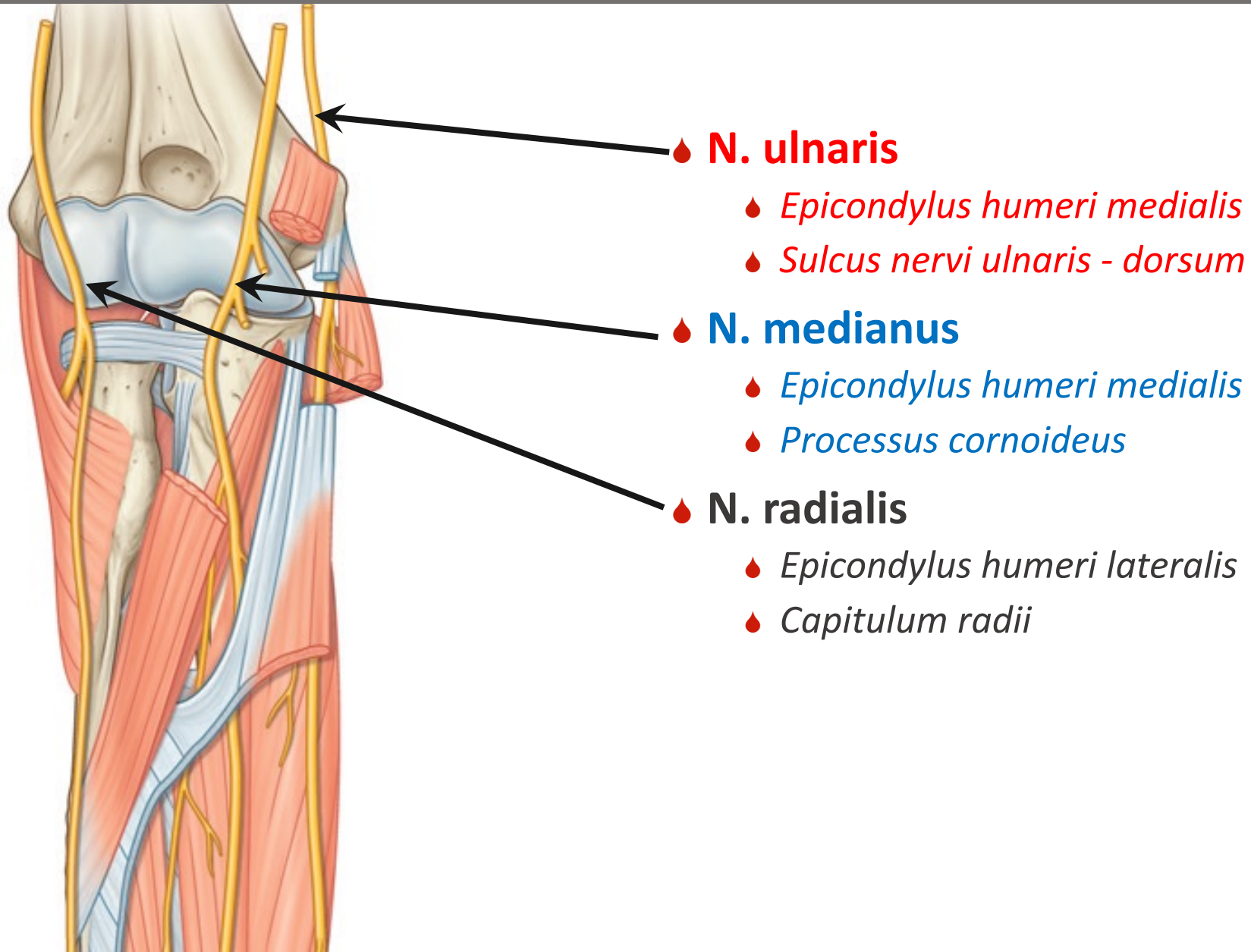
fossa cubiti



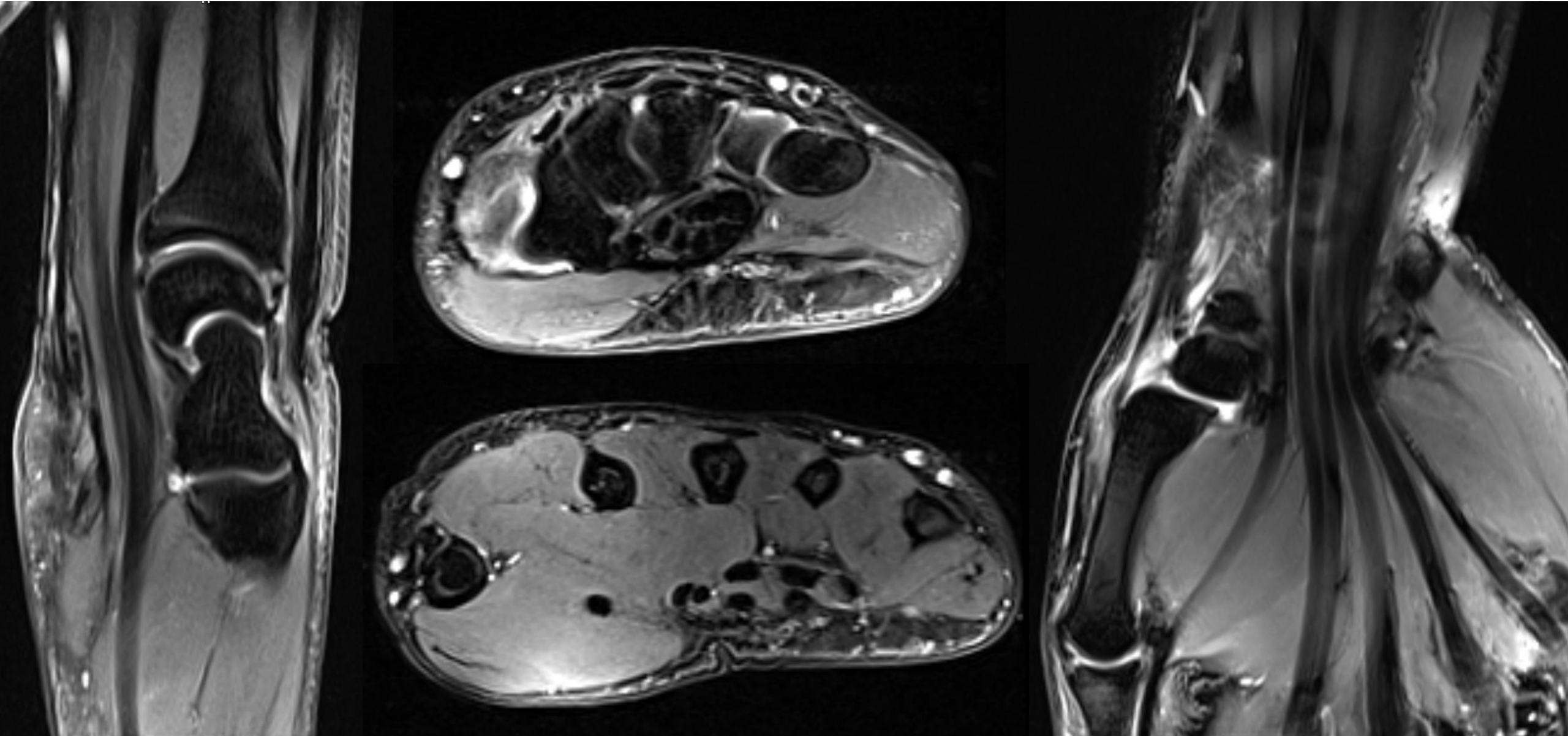
fossa cubiti



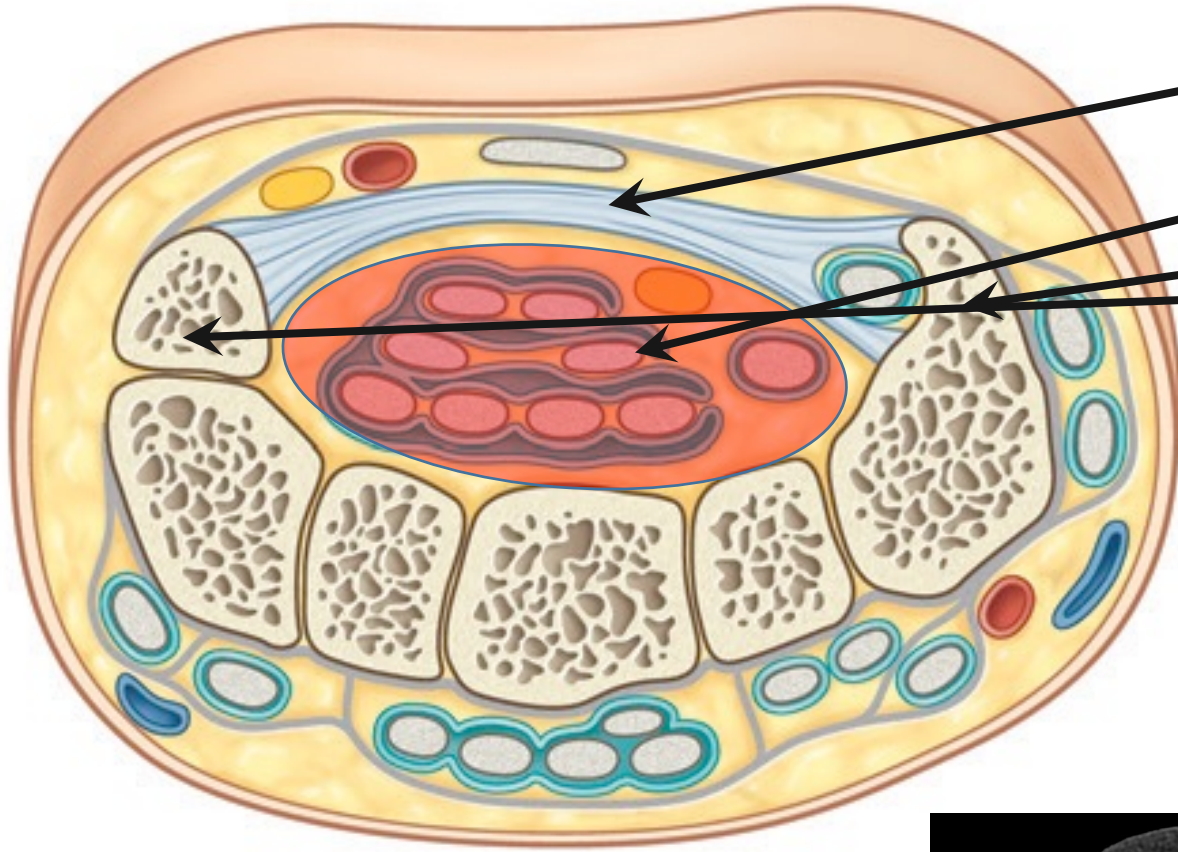
fossa cubiti



Canalis carpalis



Canalis carpalis



♦ **Retinaculum flexorum**

♦ **U – prostor/ U- space**

♦ *Tuberculum ossis trapezii*

♦ *Os pisiforme*

♦ **Pod retinakulem / below retinaculum**

♦ *N. medianus*

♦ *Mm. flexores digitorum superf. et prof. (T)*

♦ *M. flexor pollicis longus (T)*

♦ **V retinakulu / in retinaculum**

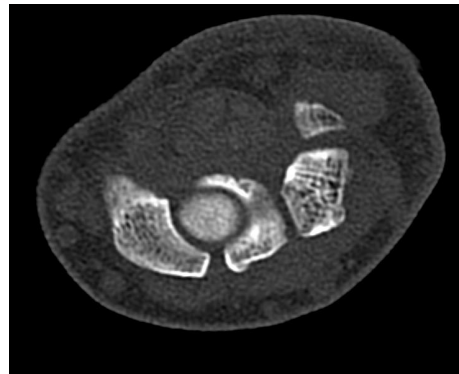
♦ *M. flexor carpi radialis (T)*

♦ **Nad retinakulem / above retinaculum**

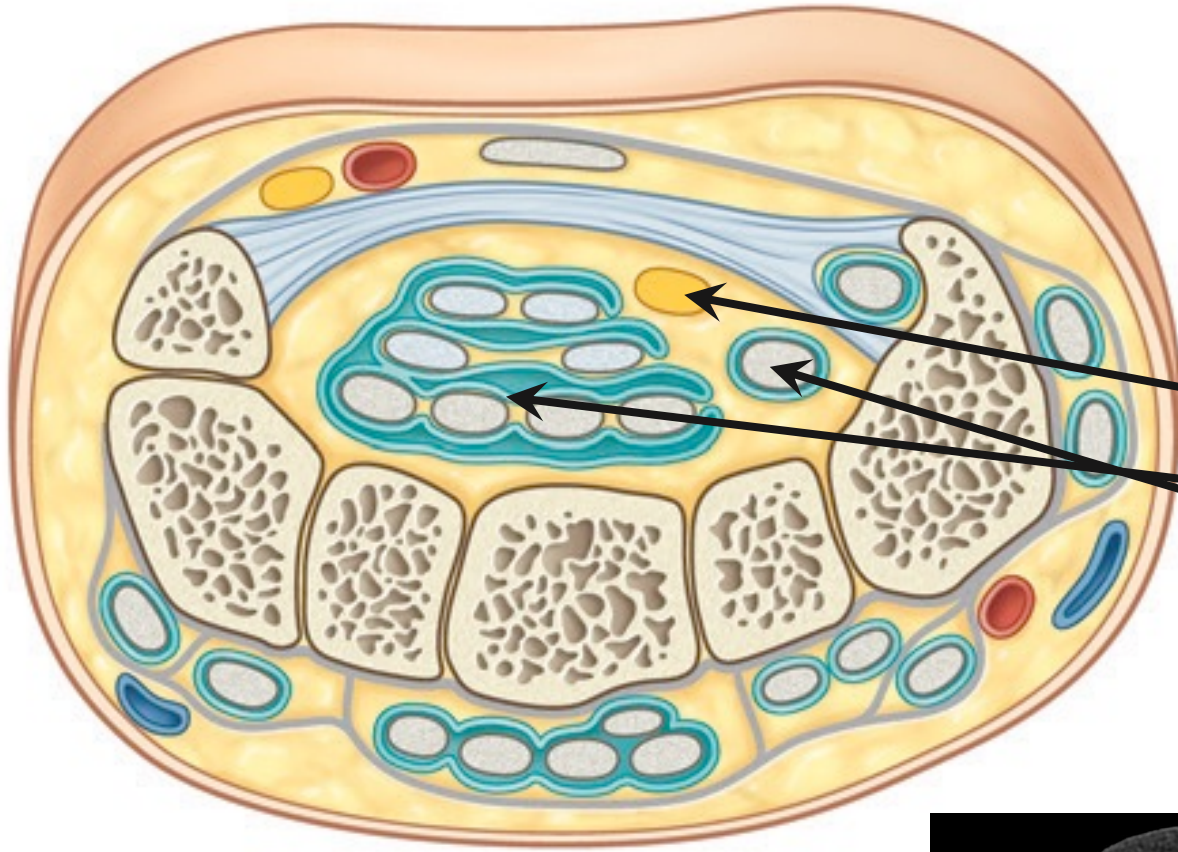
♦ *N. ulnaris*

♦ *A. ulnaris*

♦ *M. palmaris longus (T)*



Canalis carpalis



♦ **Retinaculum flexorum**

♦ **U – prostor/ U- space**

♦ *Tuberculum ossis trapezii*

♦ *Os pisiforme*

♦ **Pod retinakulem / below retinaculum**

♦ *N. medianus*

♦ *Mm. flexores digitorum superf. et prof. (T)*

♦ *M. flexor pollicis longus (T)*

♦ **V retinakulu / in retinaculum**

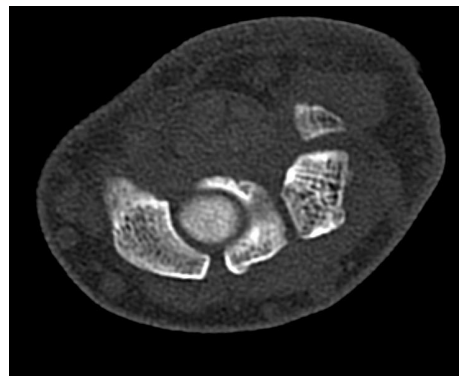
♦ *M. flexor carpi radialis (T)*

♦ **Nad retinakulem / above retinaculum**

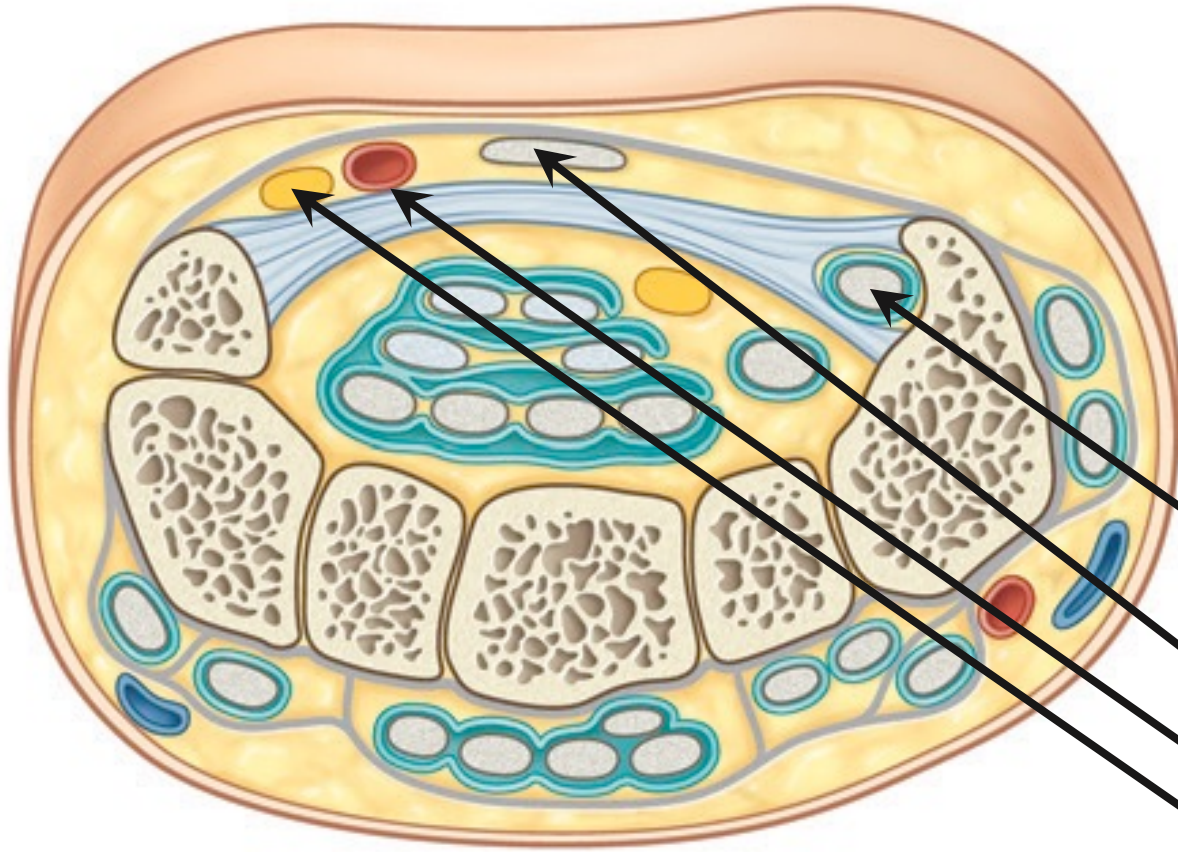
♦ *N. ulnaris*

♦ *A. ulnaris*

♦ *M. palmaris longus (T)*



Canalis carpalis



♦ **Retinaculum flexorum**

♦ **U – prostor/ U- space**

♦ *Tuberculum ossis trapezii*

♦ *Os pisiforme*

♦ **Pod retinakulem / below retinaculum**

♦ *N. medianus*

♦ *Mm. flexores digitorum superf. et prof. (T)*

♦ *M. flexor pollicis longus (T)*

♦ **V retinakulu / in retinaculum**

♦ *M. flexor carpi radialis (T)*

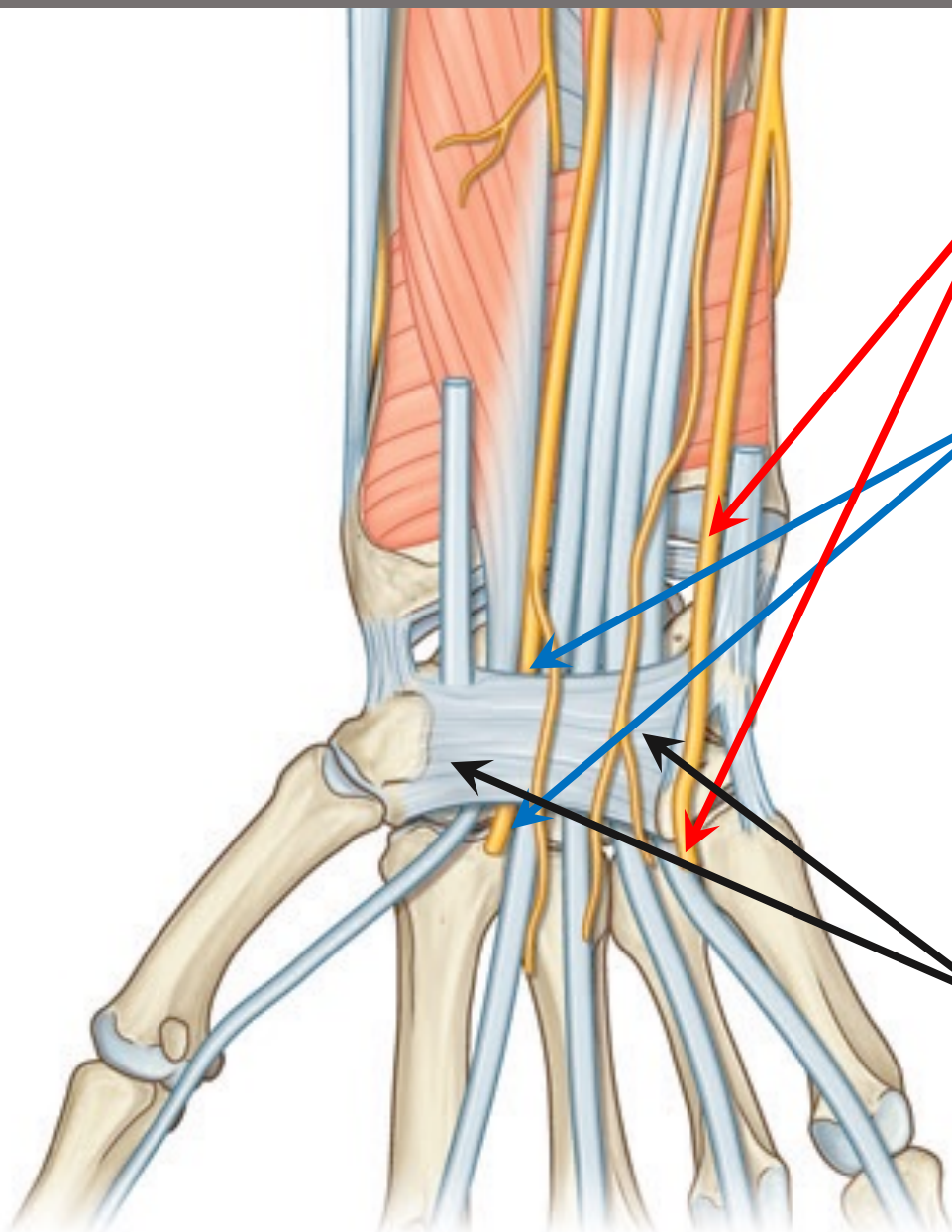
♦ **Nad retinakulem / above retinaculum**

♦ *M. palmaris longus (T)*

♦ *A. ulnaris*

♦ *N. ulnaris*

Canalis carpalis



♦ N. ulnaris

- ♦ *Před retinaculem / above retinaculum*
- ♦ *Ramus palmaris*

♦ N. medianus

- ♦ *Pod retinaculem / below retinaculum*
- ♦ *Ramus palmaris*
- ♦ *Nad retinaculem*

♦ Retinaculum flexorum

- ♦ *Syndrom karpálního tunelu/ syndrome of carpal tunnel*
- ♦ *Útlak n. medianus / compression of medianus nerve*

Upper extremity – clinically important topography