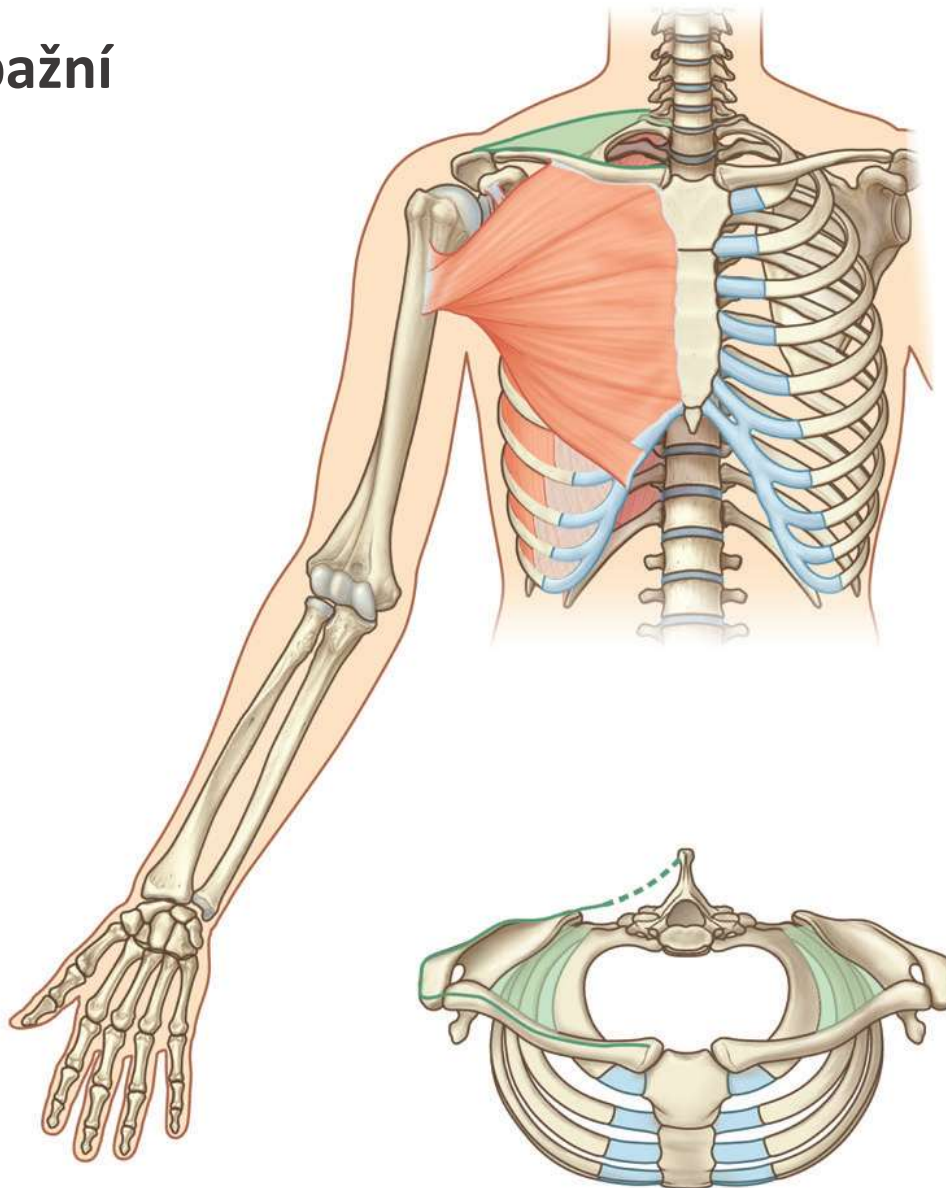


Membrum superius 1

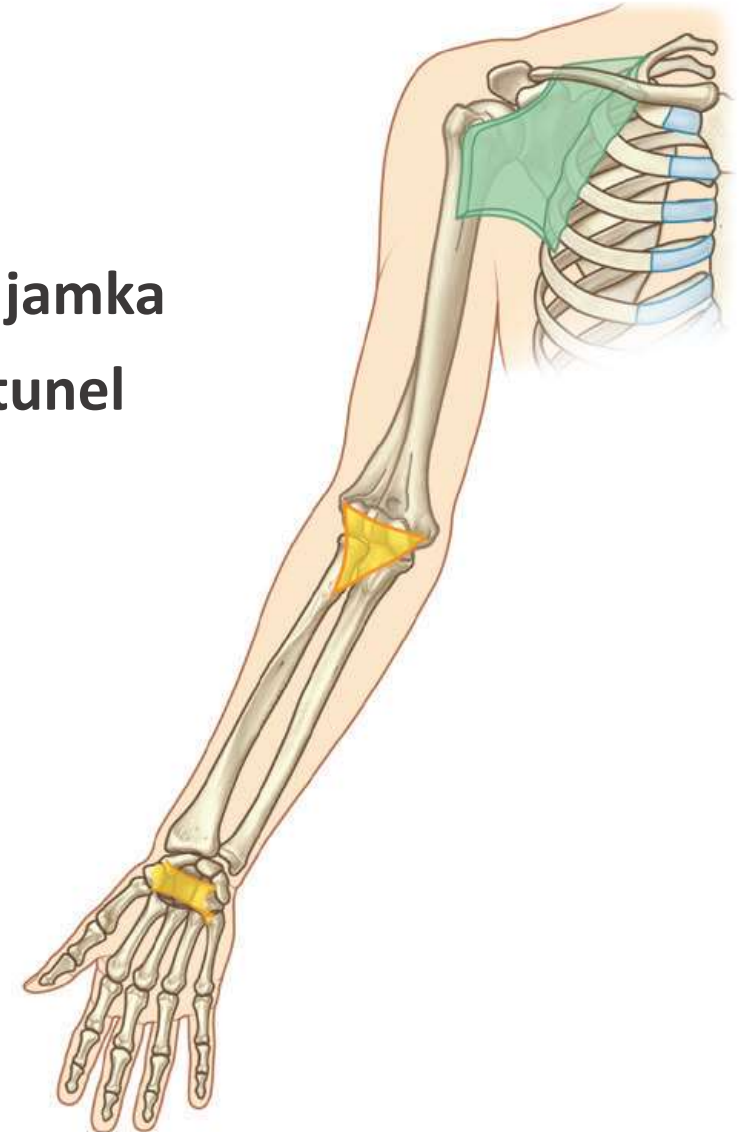
Prof. MUDr. Jiří Ferda, Ph.D.

Clenění horní končetiny

- ♦ Pletence pažní
- ♦ Rameno
- ♦ Paže
- ♦ Loket
- ♦ Předloktí
- ♦ Zápěstí
- ♦ Ruka



- ♦ Axila
- ♦ Kubitální jamka
- ♦ Karpální tunel

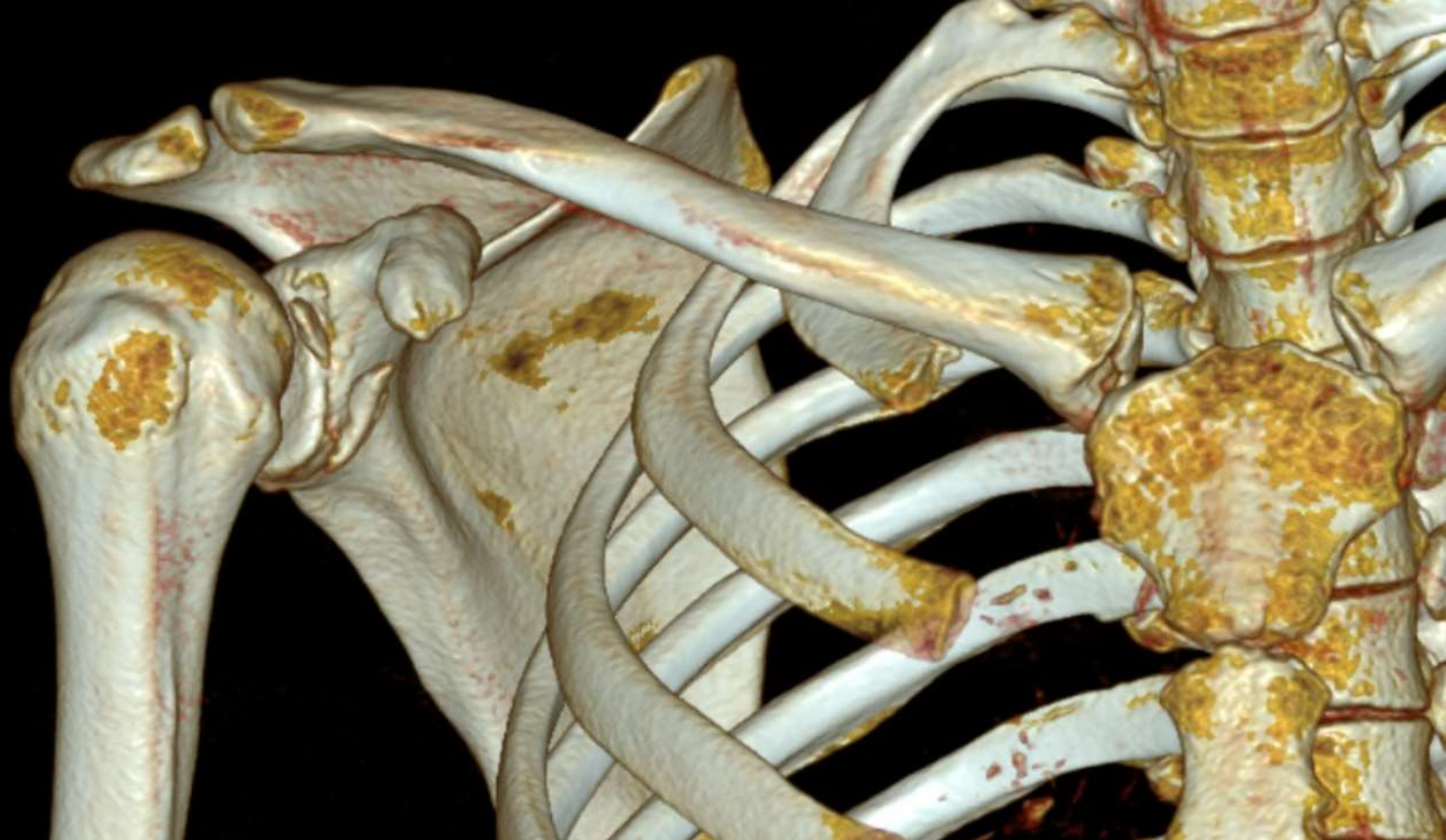


RTG

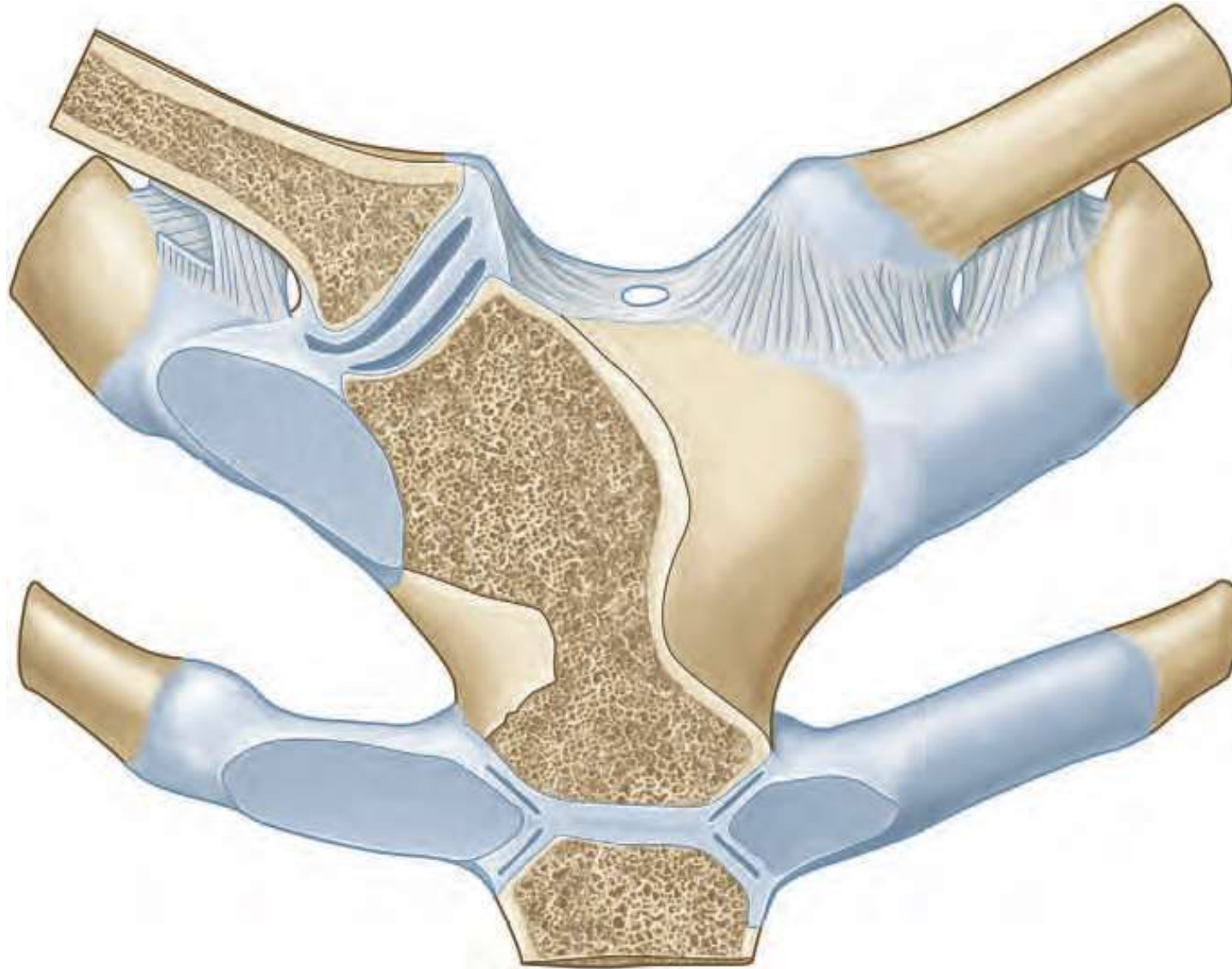
R



- ♣ Clavicula
- ♣ Scapula
- ♣ Cavitas glenoidalis
- ♣ Acromion
- ♣ Processus coracoideus
- ♣ Facies articularis humeri
- ♣ Collum anatomicum
- ♣ Collum chirurgicum
- ♣ Tuberculum majus
- ♣ Tuberculum minus



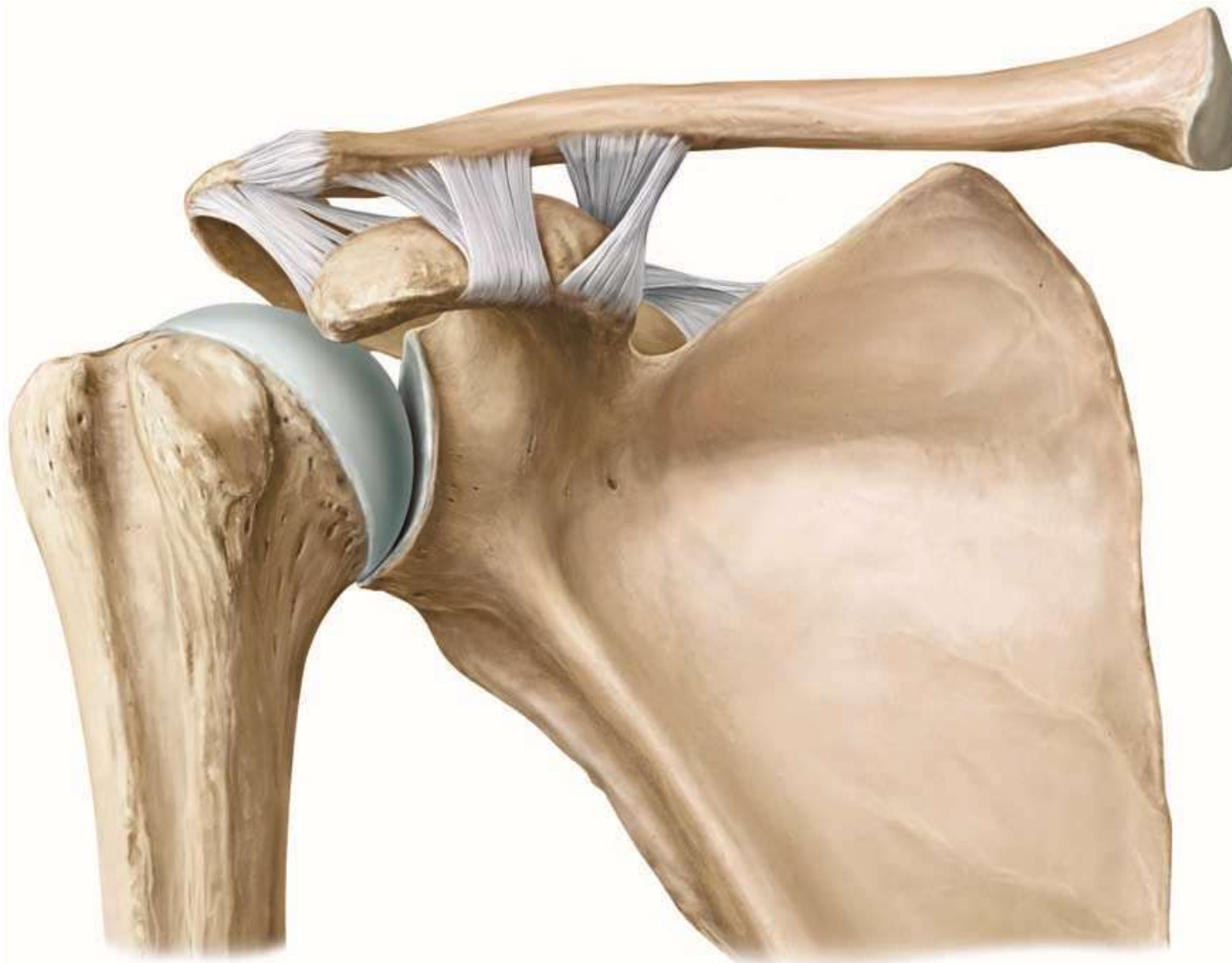
Art. sternoclavicularis



- ♦ **Facies articulares**
- ♦ **Discus**
- ♦ **Capsula**
- ♦ **Lig. costoclaviculare**
- ♦ **Lig. sternoclaviculare anterius**
- ♦ **Lig. interclaviculare**

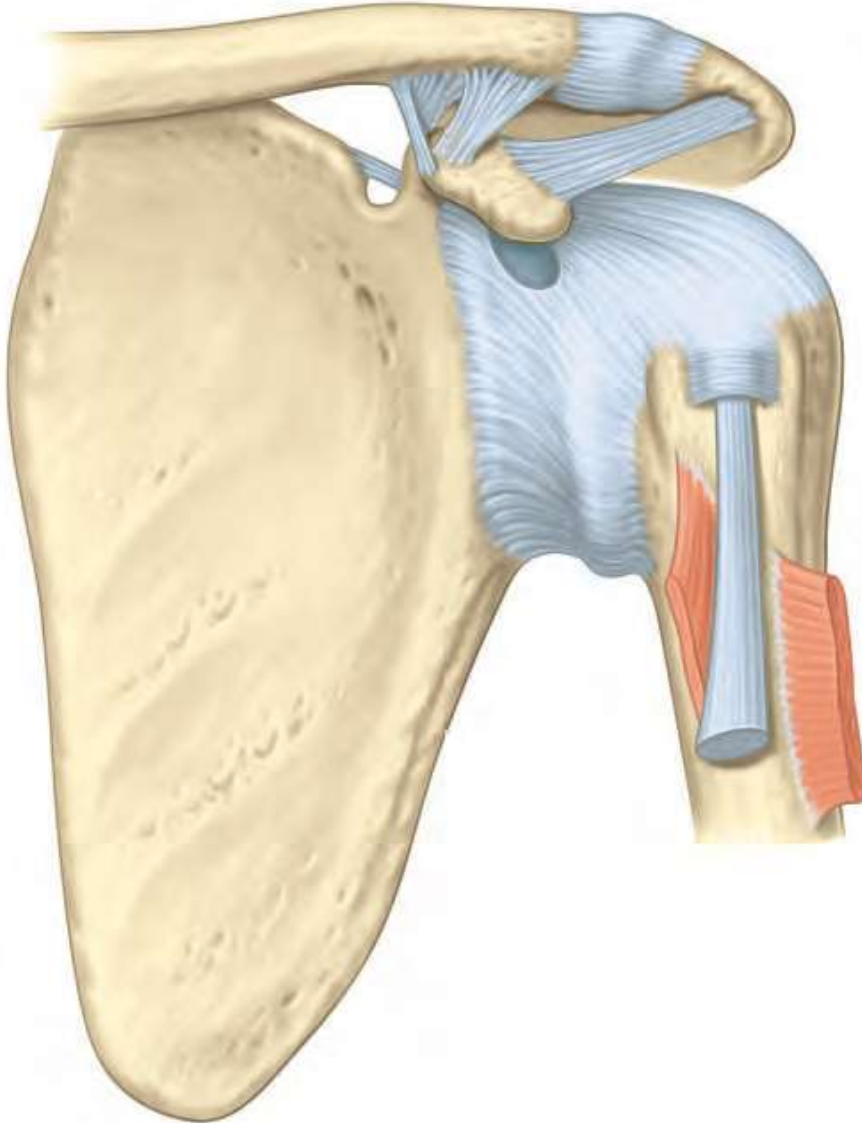
- 🔴 Lig. acromioclaviculare
- 🔴 Lig. trapezoideum
- 🔴 Lig. conoideum
- 🔴 Lig. transversum scapulae superius
- 🔴 Lig. acromioclaviculare
- 🔴 Lig. aro miocoracoideum
 - 🔴 Fornix art. glenohumeralis

Art. glenohumeralis



- ♦ Lig. acromioclaviculare
- ♦ Lig. trapezoideum
- ♦ Lig. conoideum
- ♦ Lig. transversum scapulae superius
- ♦ Lig. acromioclaviculare
- ♦ Lig. aromiocracoideum
 - ♦ Fornix art. glenohumeralis

Art. glenohumeralis



- ♦ **Lig. coracohumerale**
- ♦ **Lig. glenohumerale superius**
- ♦ **Lig. glenohumerale inferius**
- ♦ **Lig. transversum humeri**
- ♦ **M. biceps brachii, caput longum**
- ♦ **M. deltoideus**
- ♦ **M. pectoralis major**
- ♦ **M. latissimus dorsi**



Thieme Atlas of Anatomy vol. 1.



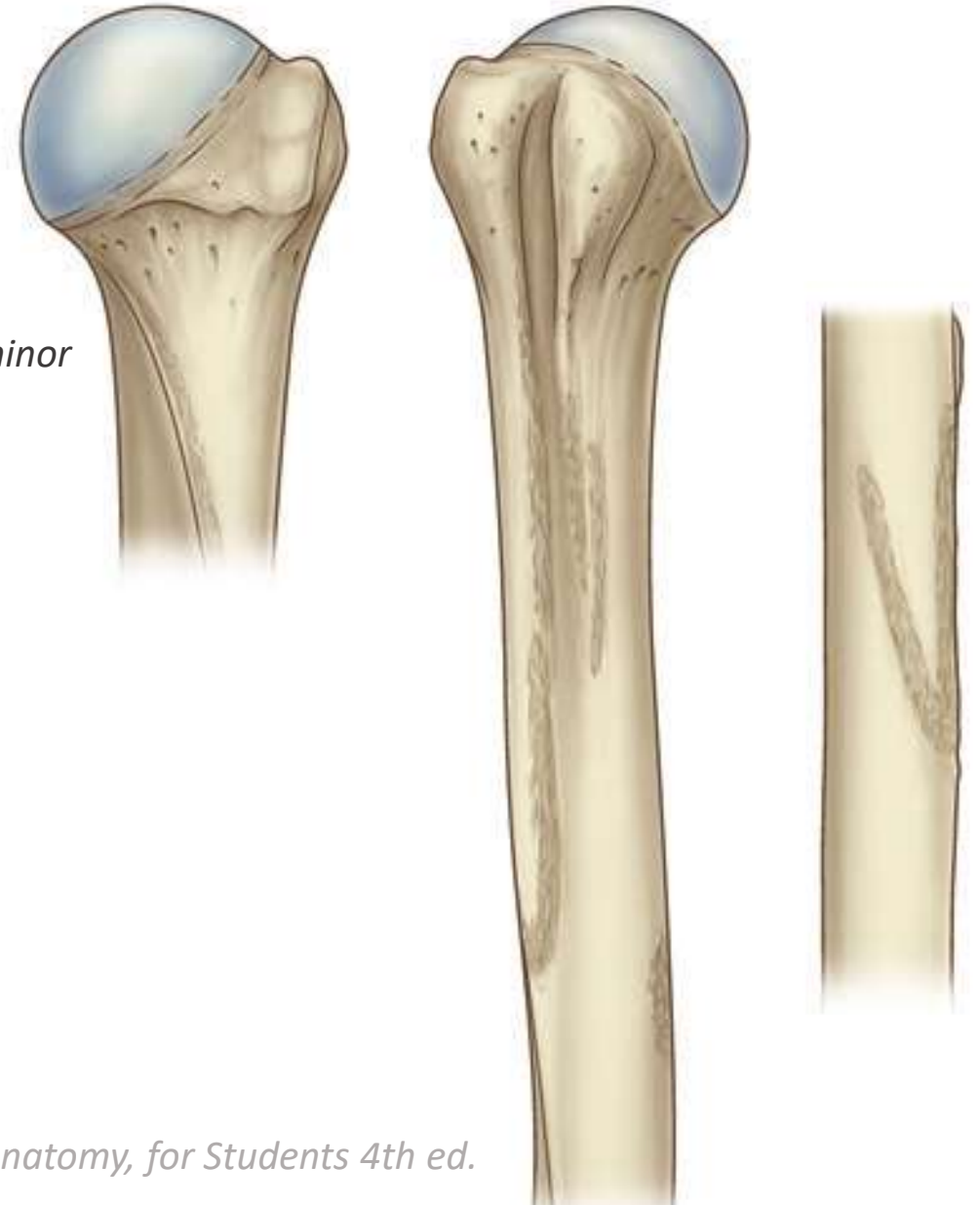


Thieme Atlas of Anatomy vol. 1.

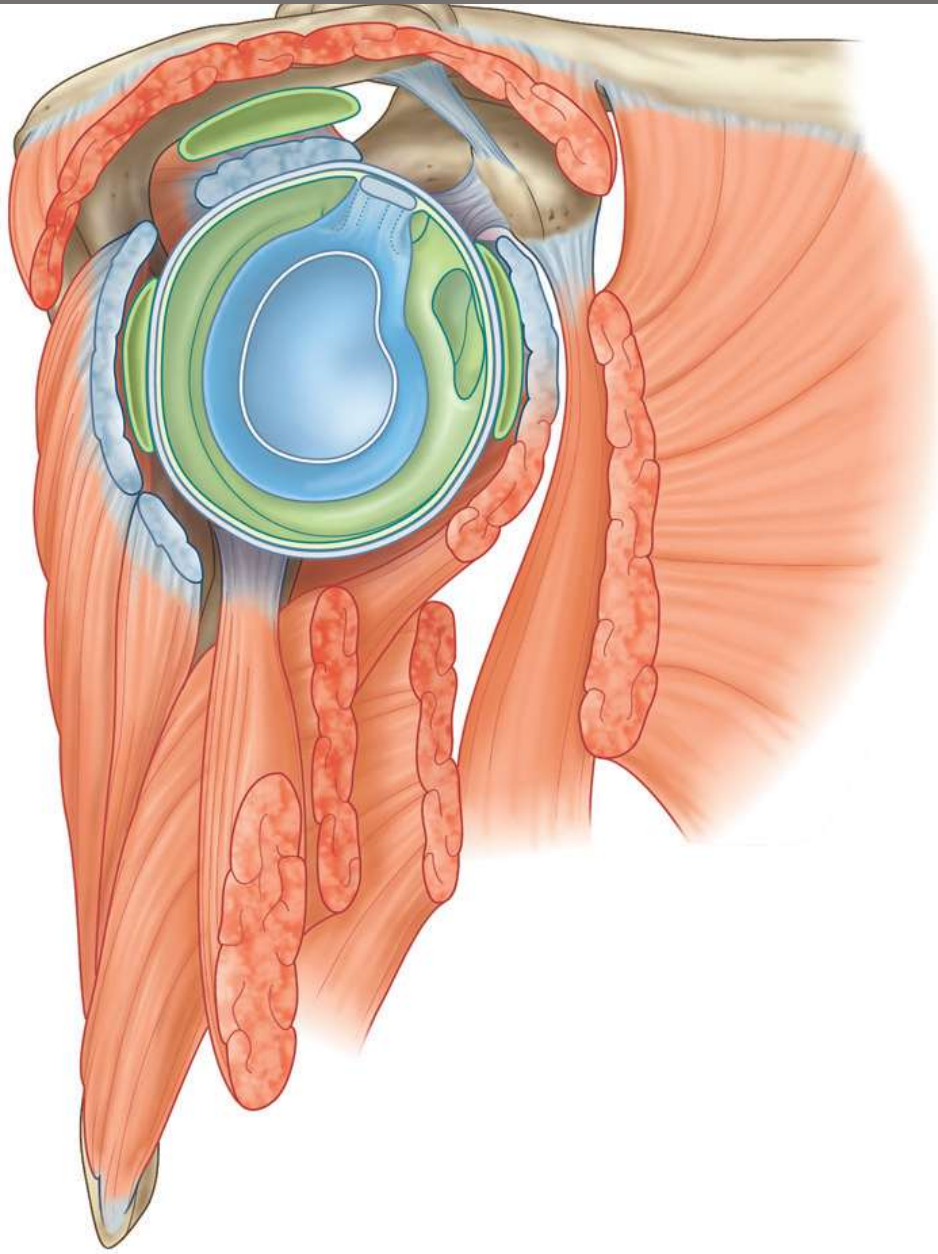


Proximální humerus

- ♦ **Facies articularis**
- ♦ **Collum anatomicum**
- ♦ **Collum chirurgicum**
- ♦ **Tuberculum majus** *m. supraspinatus , M. infraspinatus, M. teres minor*
- ♦ **Tuberculum minus** *m. subscapularis*
- ♦ **Sulcus intertubercularis**
 - ♦ *tendo capitis longi m. bicipitis brachii*
 - ♦ *m. latissimus dorsi*
- ♦ **Crista tuberculi majoris** *m. pectoralis major*
- ♦ **Crista tuberculi minoris** *m. teres major*
- ♦ **Tuberositas m. deltoidei** *m. deltoideus*
- ♦ **Tuberositas m. coracobrachialis** *m. coracobrachialis*

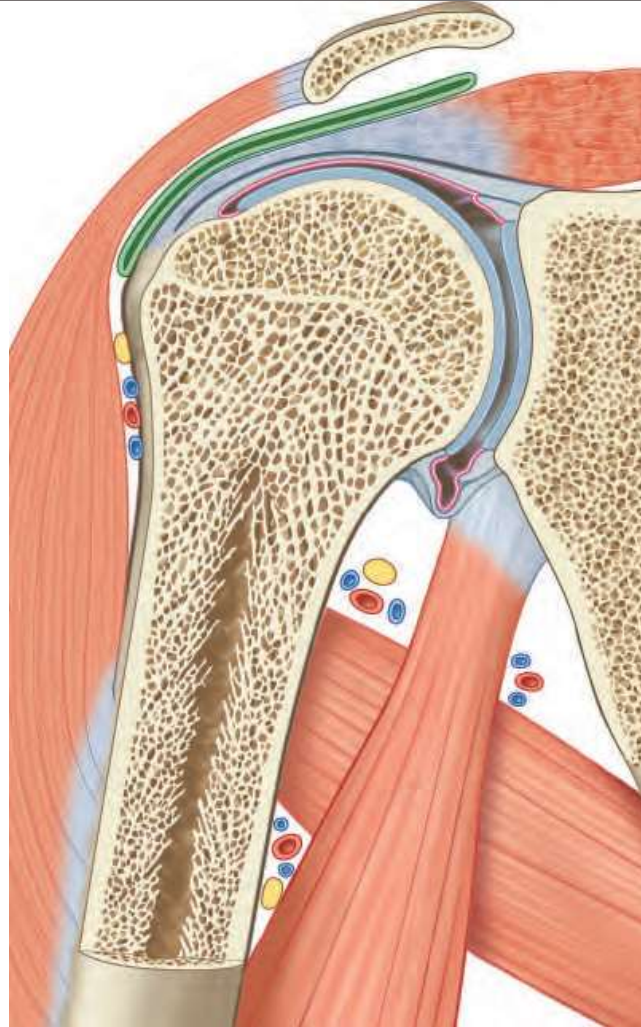
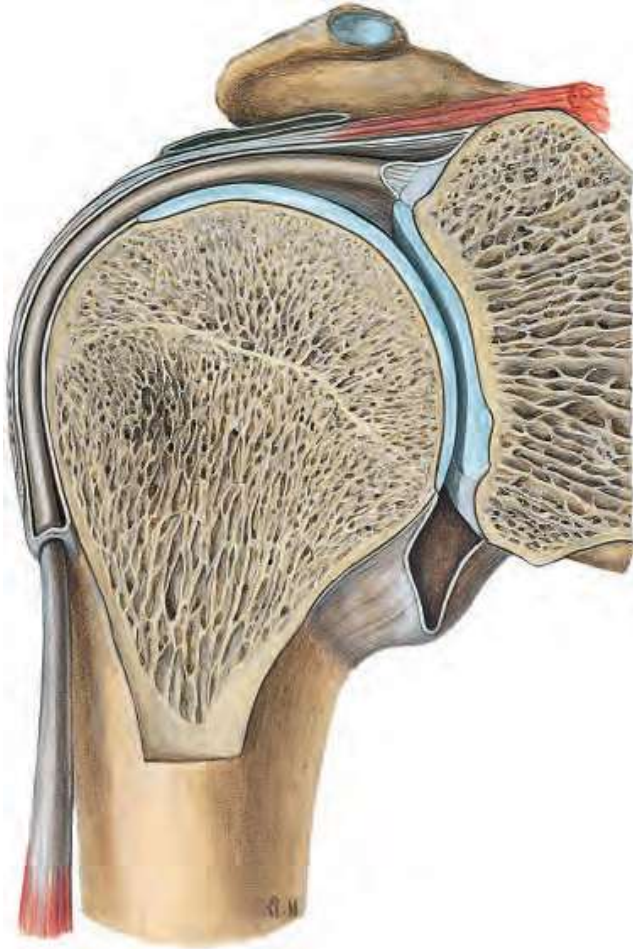


Art. glenohumeralis



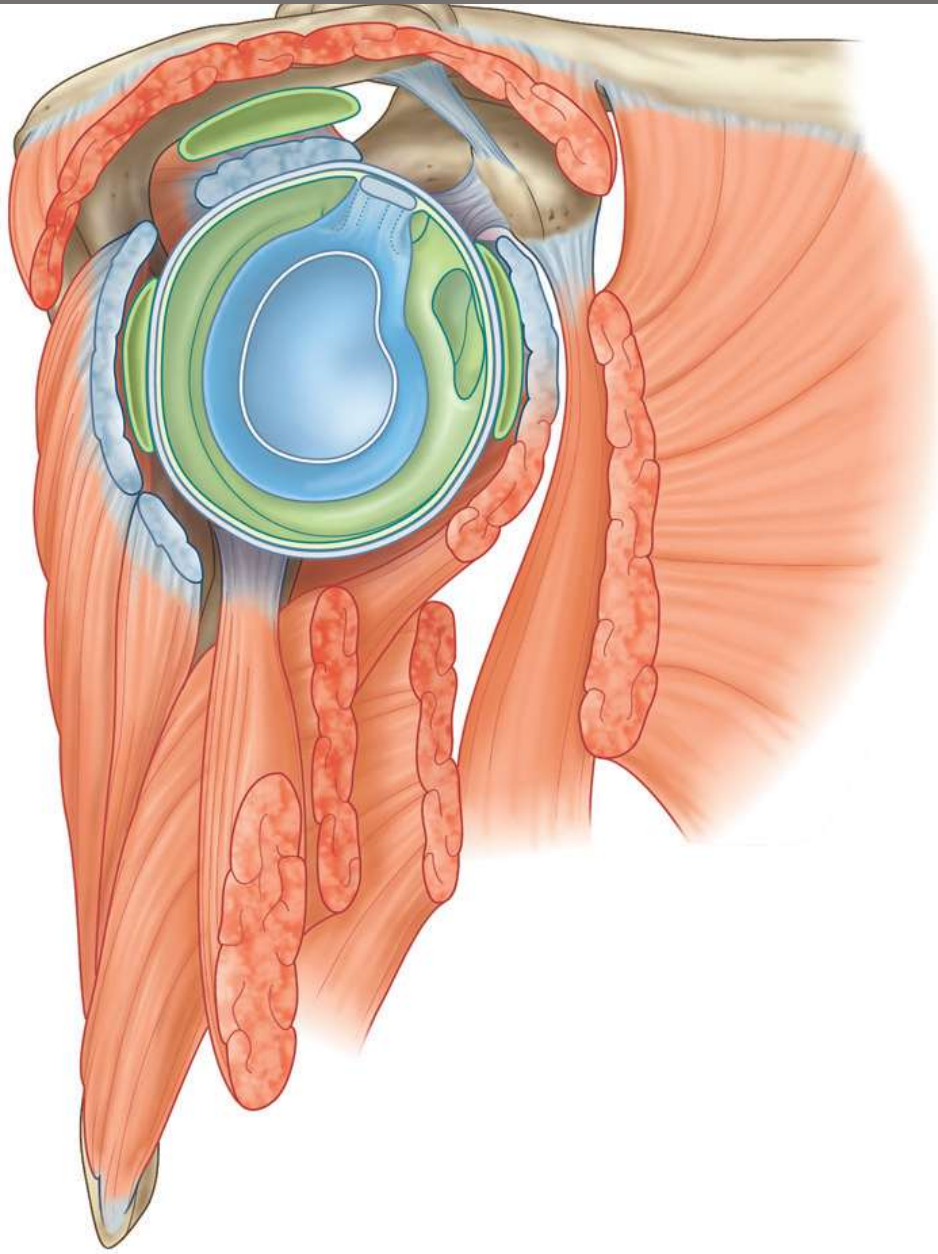
- ♦ Cavitas glenoidalis
- ♦ Labrum glenoidale
- ♦ Tendo m. bicipitis (caput longum)
- ♦ Capsula articularis
- ♦ **Musculi**
 - ♦ *M. deltoideus*
 - ♦ *M. pectoralis major*
 - ♦ *M. latissimus dorsi*
 - ♦ *M. teres major*
 - ♦ *M. biceps brachii* - caput breve
 - ♦ *M. triceps brachii* - caput longum
 - ♦ *M. supraspinatus*
 - ♦ *M. infraspinatus*
 - ♦ *M. teres minor*
 - ♦ *M. subscapularis*
- ♦ **Bursae subtendineae**

Art. glenohumeralis



- ♦ Cavitas glenoidalis
- ♦ Labrum glenoidale
- ♦ Tendo m. bicipitis (caput longum)
- ♦ Capsula articularis
- ♦ **Musculi**
 - ♦ *M. deltoideus*
 - ♦ *M. pectoralis major*
 - ♦ *M. latissimus dorsi*
 - ♦ *M. teres major*
 - ♦ *M. biceps brachii* - caput breve
 - ♦ *M. triceps brachii* - caput longum
 - ♦ *M. supraspinatus*
 - ♦ *M. infraspinatus*
 - ♦ *M. teres minor*
 - ♦ *M. subscapularis*
- ♦ **Bursae subtendineae**

Bursae mucosae omae

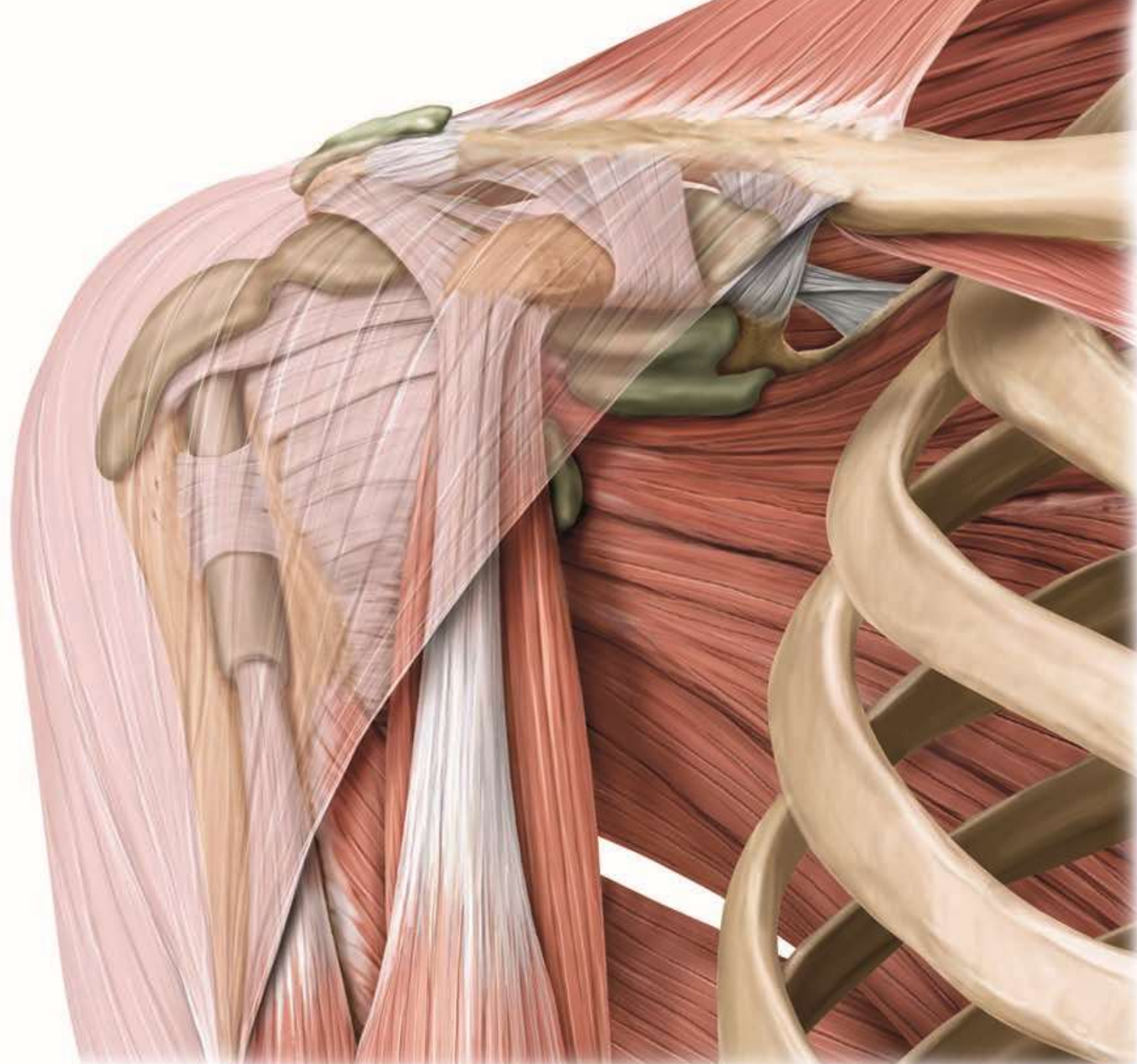


- ◆ Cavitas glenoidalis
- ◆ Labrum glenoidale
- ◆ Tendo m. bicipitis (caput longum)
- ◆ Capsula articularis
- ◆ Musculi
- ◆ Bursae
- ◆ *Bursae subacromialis /subdeltoidea*
- ◆ *Bursa m. subscapularis*
- ◆ *Bursa m. infraspinatis*

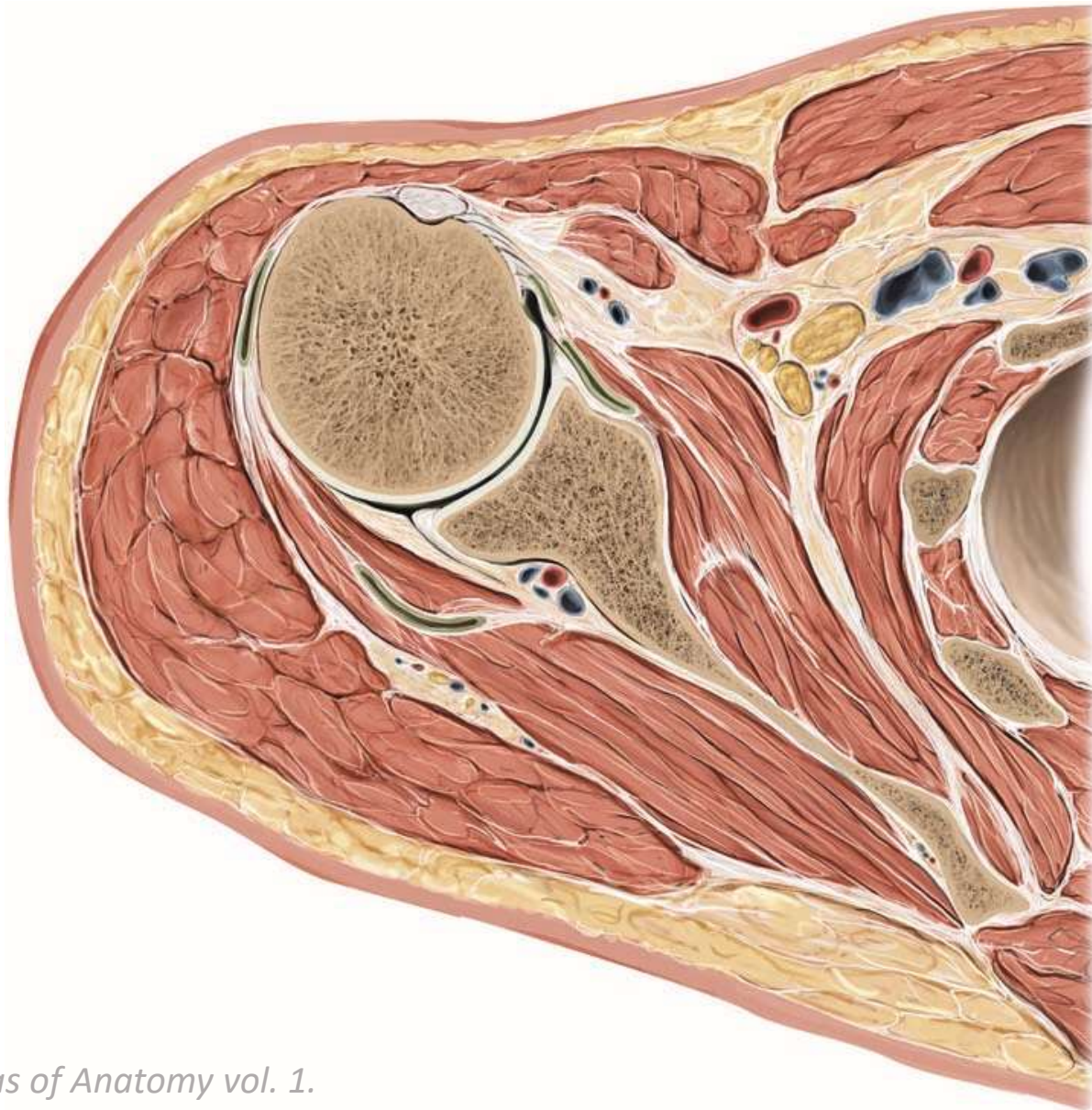


Thieme Atlas of Anatomy vol. 1.



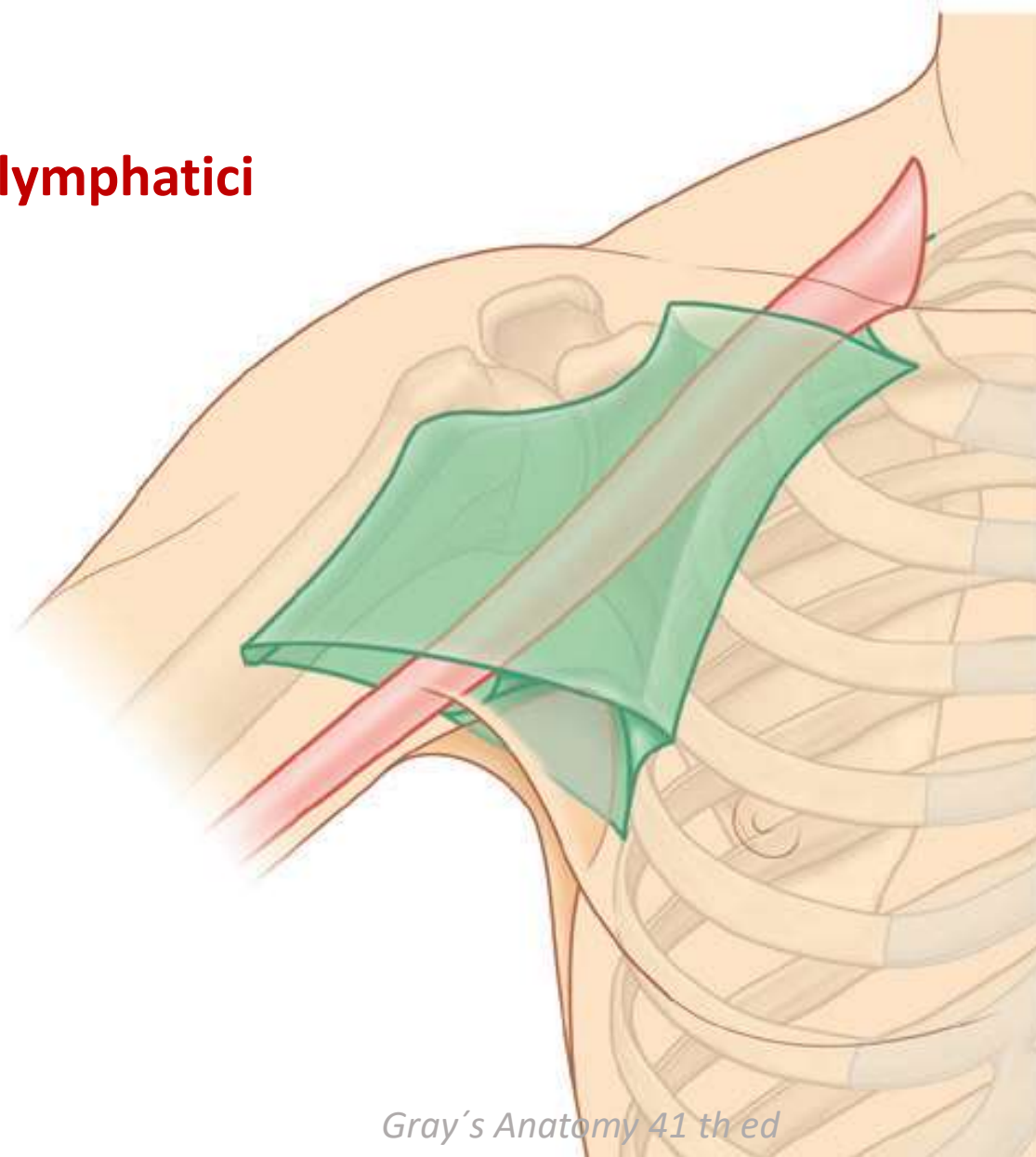


Axilla

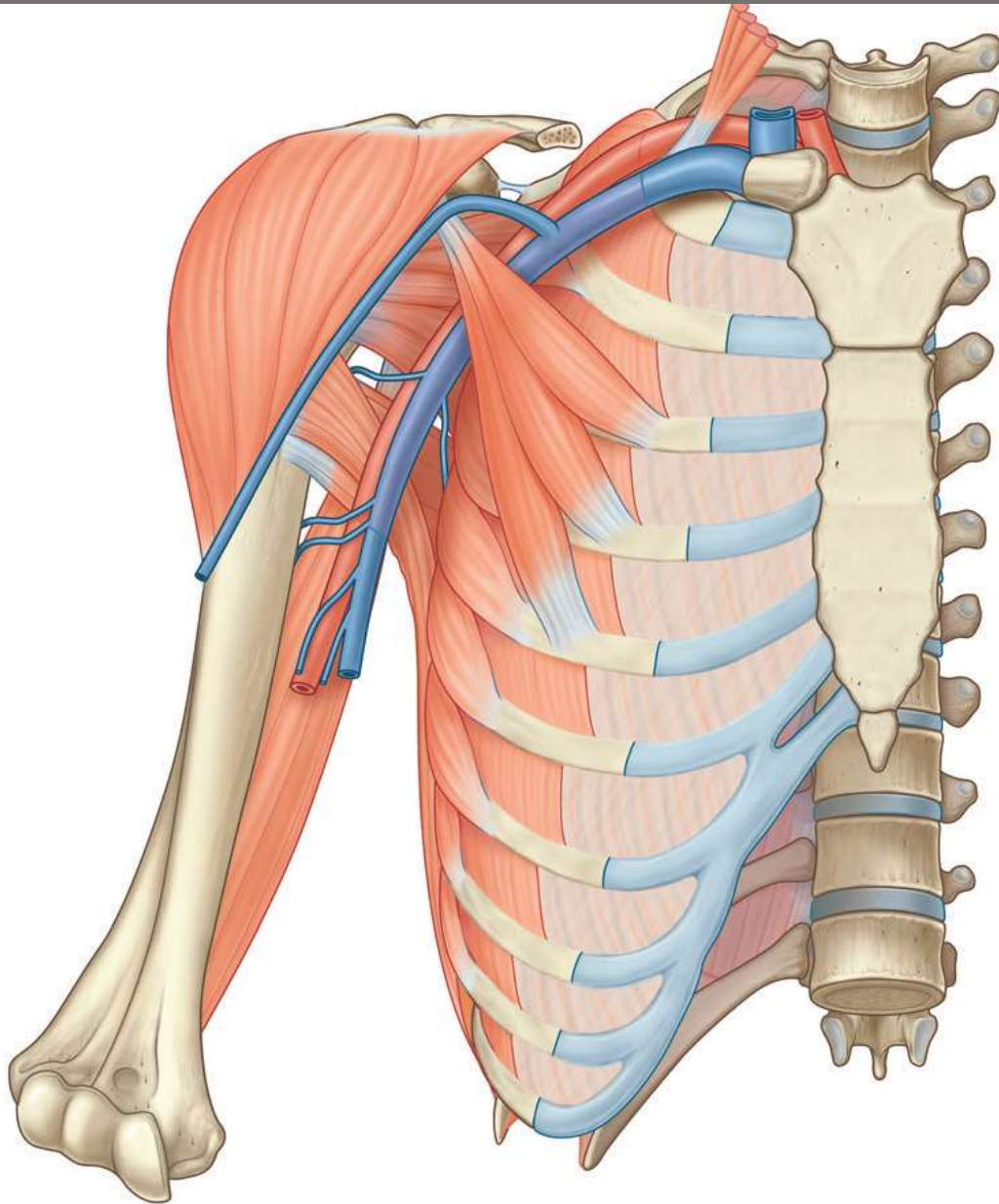


Axilla

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



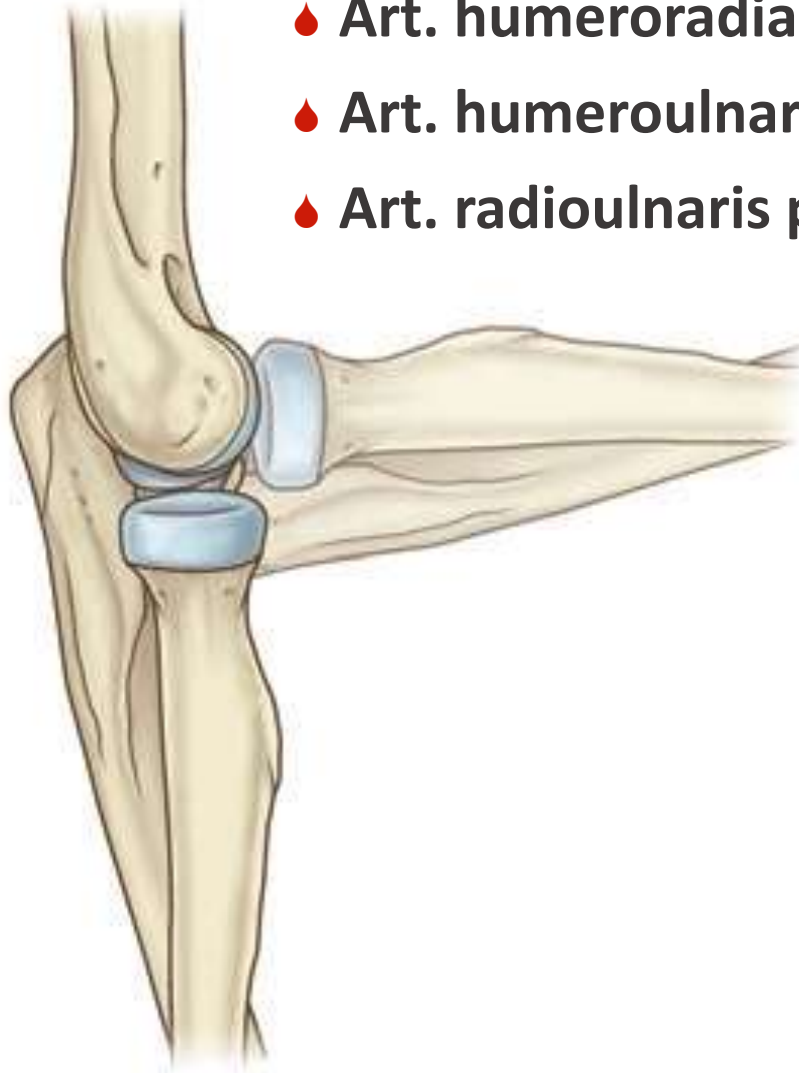
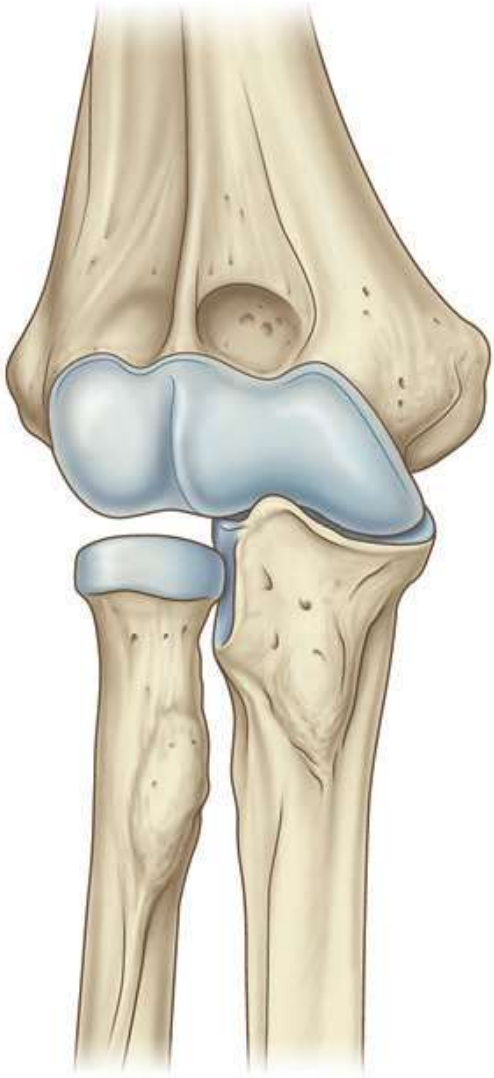
Axilla



- ♦ **Vena axillaris**
- ♦ **Arteria axillaris**
- ♦ **Nodi lymphatici**
 - ♦ *I nodi humerales + pectorales,*
 - ♦ *II - nodi centrales*
 - ♦ *III - nodi apicales, infraclaviculares*
- ♦ **Plexus brachialis**
 - ♦ **Horní část - divisiones**
 - ♦ *Přední a zadní oddíl*
 - ♦ **Střední část - fasciculi**
 - ♦ *medialis, lateralis, posterior*
 - ♦ **Dolní část - nervi**
 - ♦ *N. musculocutaneus*
 - ♦ *N. radialis*
 - ♦ *N. medianus*
 - ♦ *N. ulnaris*

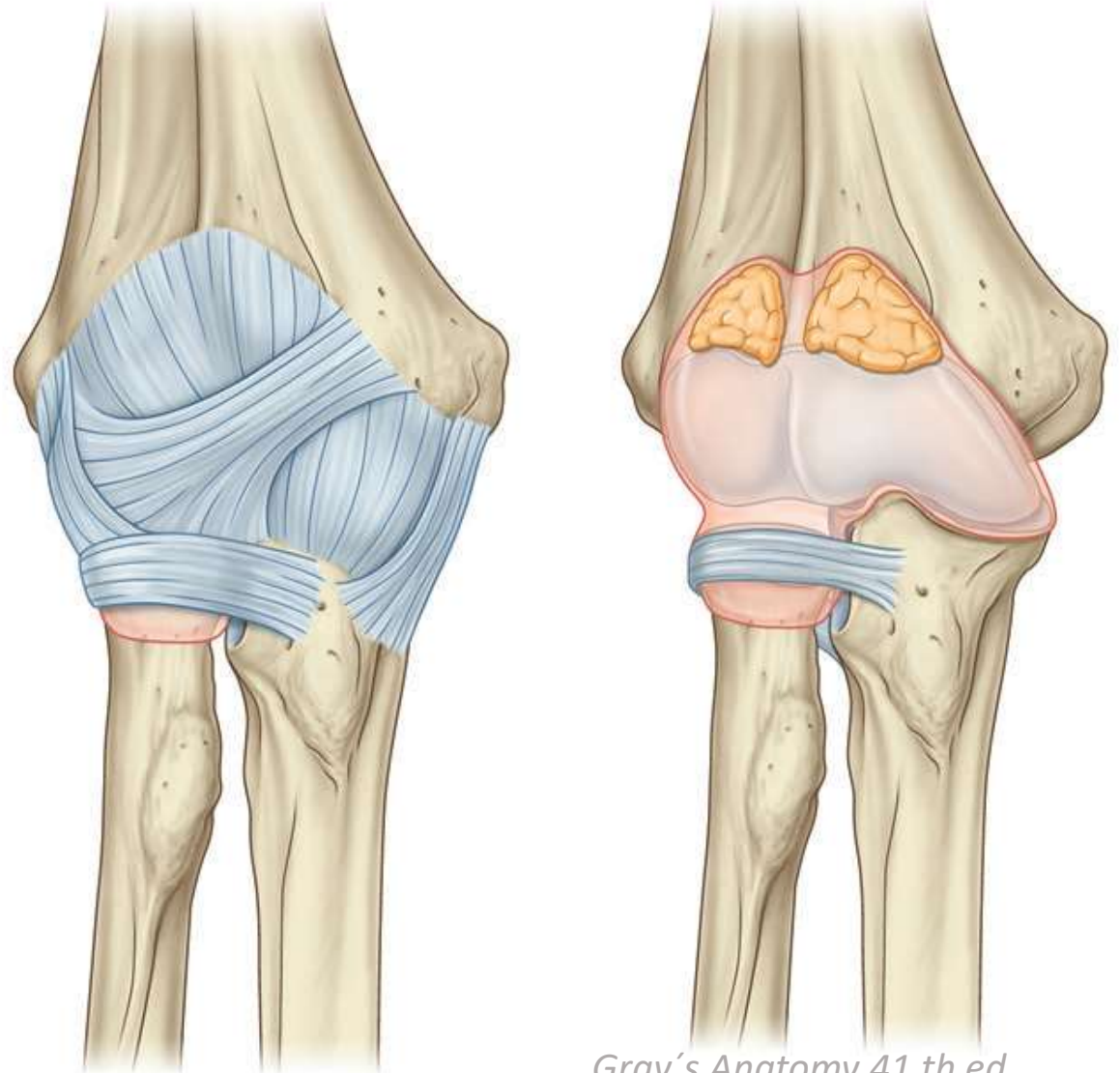
Art. cubiti

- Art. humeroradialis
- Art. humeroulnaris
- Art. radioulnaris proximalis



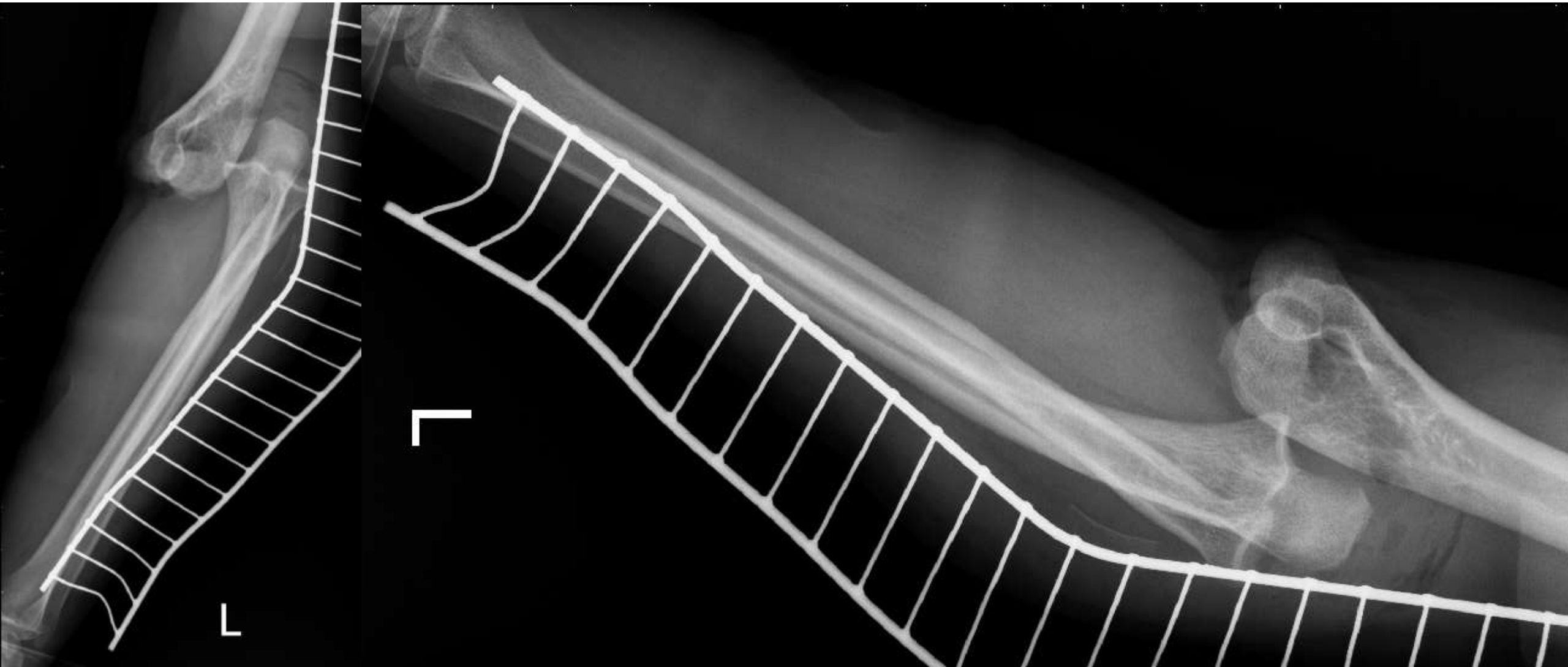
Art. cubiti

- Ligamentum collaterale radiale
- Ligamentum collaterale ulnare
- Ligamentum anulare radii
- Capsula articularis
- Corpus adiposum

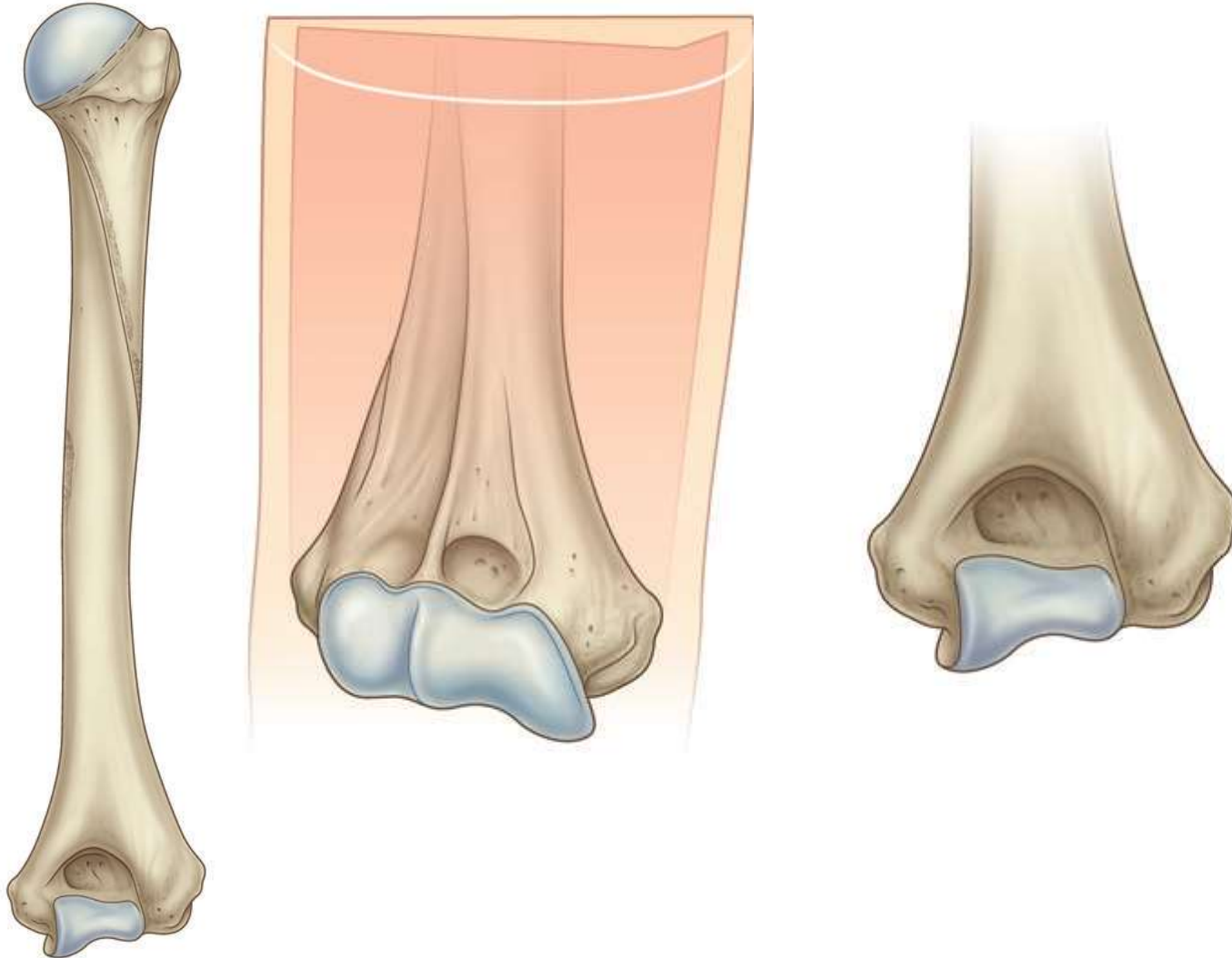




Luxace

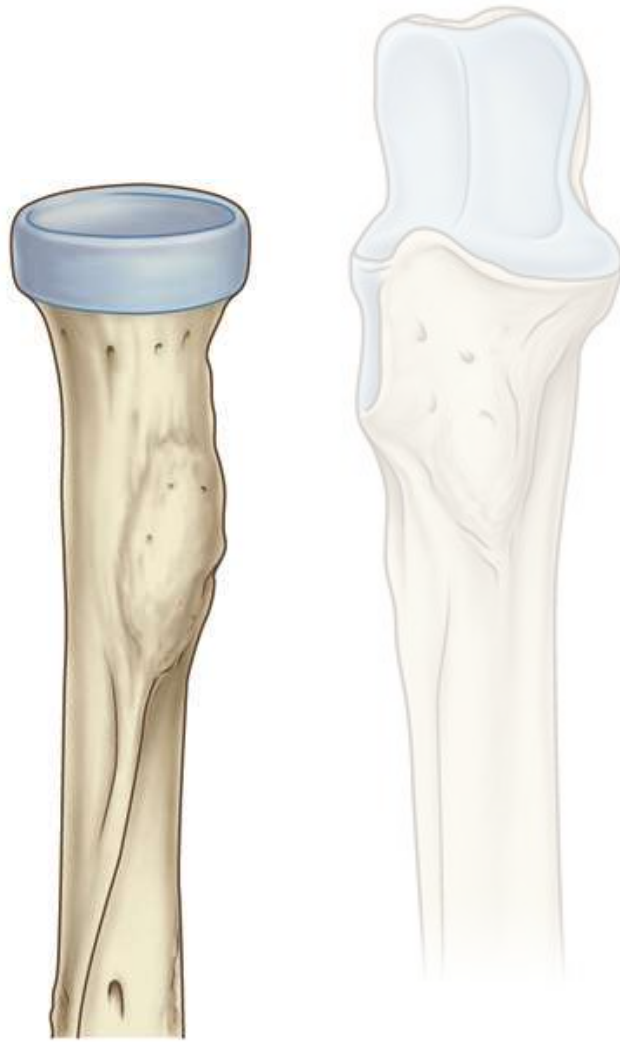


Distální část humeru



- ♦ **Sulcus nervi radialis**
- ♦ **Condylus humeri**
- ♦ **Epicondylus humeri lateralis**
- ♦ **Epicondylus humeri medialis**
- ♦ **Capitulum humeri**
- ♦ **Fossa radialis**
- ♦ **Trochlea**
- ♦ **Fossa coronidea**
- ♦ **Fossa olecrani**
- ♦ **Sulcus nervi ulnaris**

Radius a ulna



- ♦ **Caput**

- ♦ **Fovea radii**

- ♦ *Capitulum humeri*

- ♦ **Circumferentia articularis**

- ♦ *Incissura radialis*

- ♦ **Collum radii**

- ♦ **Tuberositas radii**

- ♦ *M. biceps brachii*

- ♦ **Linea obliqua**

- ♦ **Margo interosseus**

- ♦ *Membrana interossea*

- ♦ **Foramen nutricium**

Radius a ulna



♦ Olecranon

♦ *M. triceps brachii*

♦ Processus coronoideus

♦ Incissura trochlearis humeri

♦ *Trochlea humeri*

♦ Incissura radialis

♦ *Circumferentia articularis radii*

♦ Tuberositas ulnaris

♦ *M. brachialis*

♦ Foramen nutricium

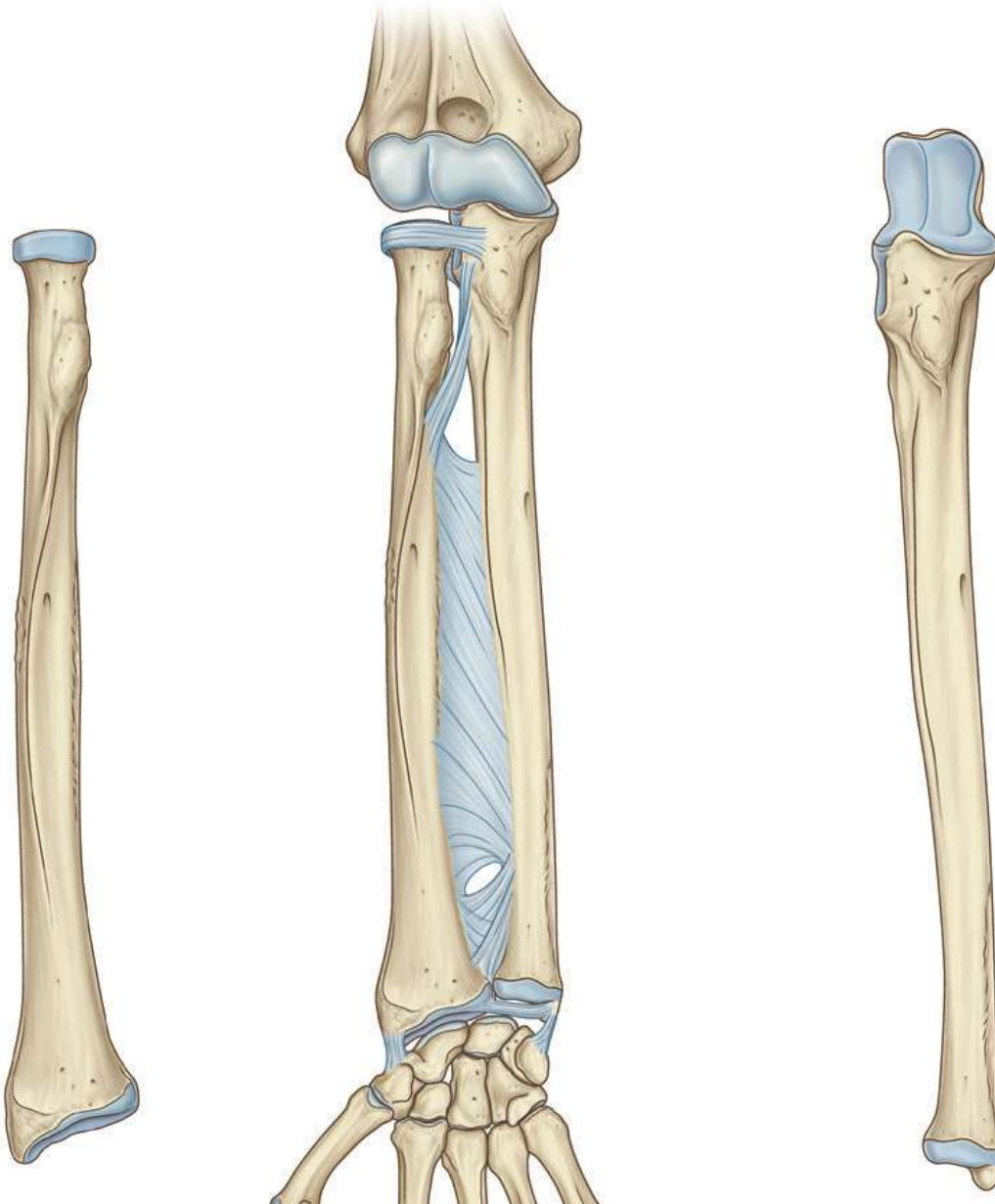
♦ Crista m. supinatoris

♦ Margo intertarsosseus

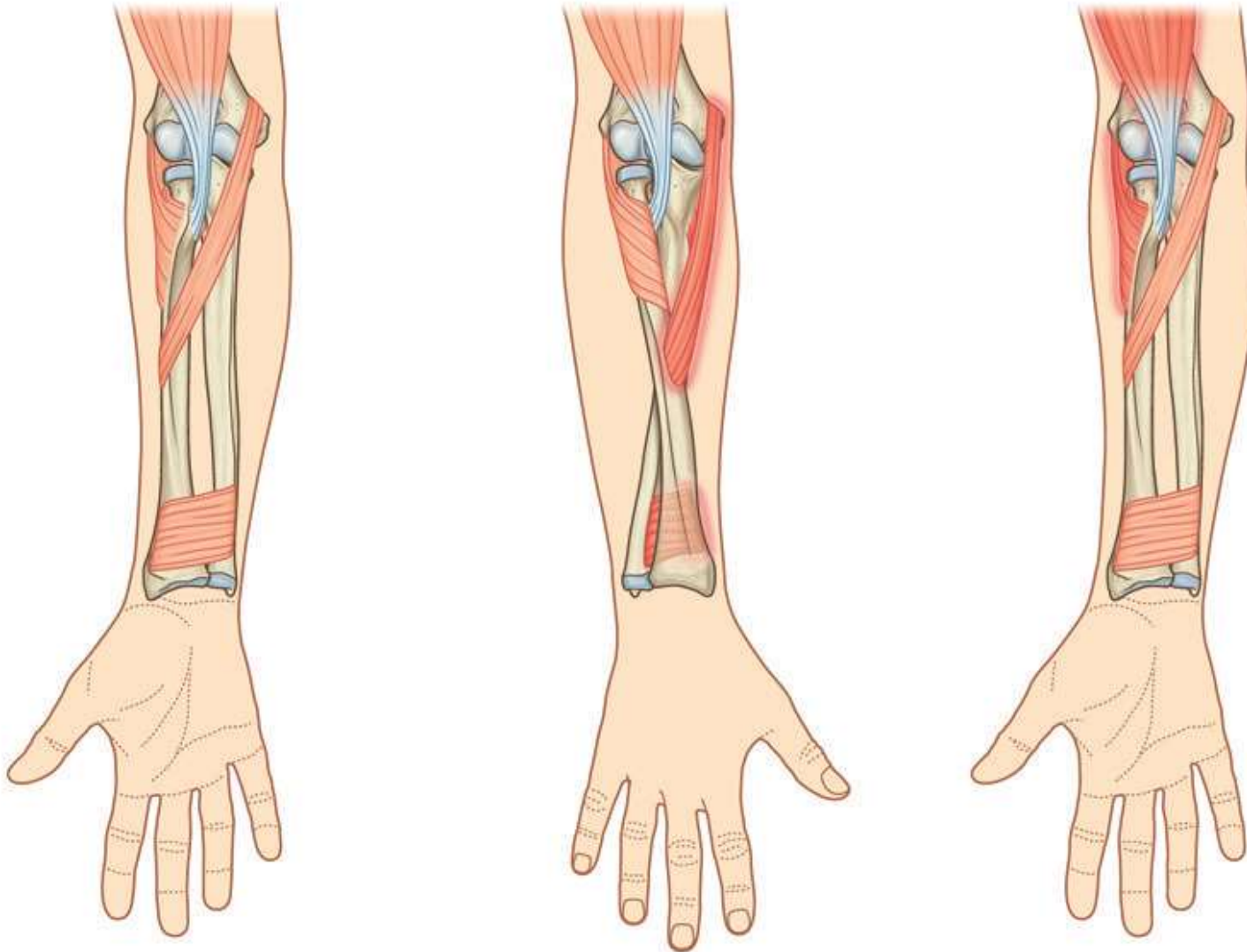
♦ *membrana interossea*

Antebrachium

- Ulna
- Radius
- Chorda obliqua
- Membrana interossea
- Apertura a. interosseae



Pronace a supinace



- Rotace radii kolem ulny

- dva a dva svaly

- M. pronator teres*

- M. pronator quadratus*

- Kontrakce - pronace

- M. supinator*

- M. biceps brachii*

- Kontrakce - supinace

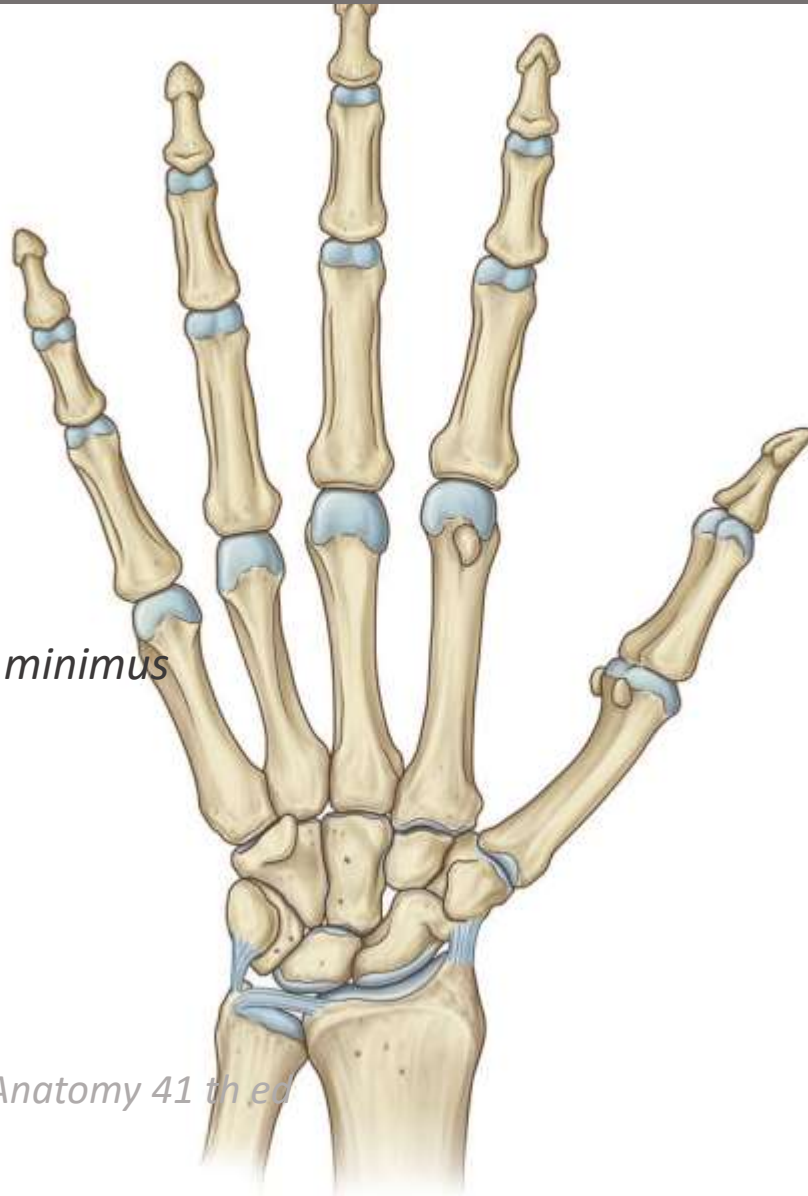
Carpus et manus

🔥 Carpus

- 🔥 *Ossa carpea (carpi)*
- 🔥 *Metacarpi I. - V.*

🔥 Manus

- 🔥 *Pollex*
- 🔥 *Digiti*
 - 🔥 *index, medius, annularis, minimus*
- 🔥 *Phalanges*
 - 🔥 *Proximales*
 - 🔥 *Mediae (II. - V.)*
 - 🔥 *Distales*

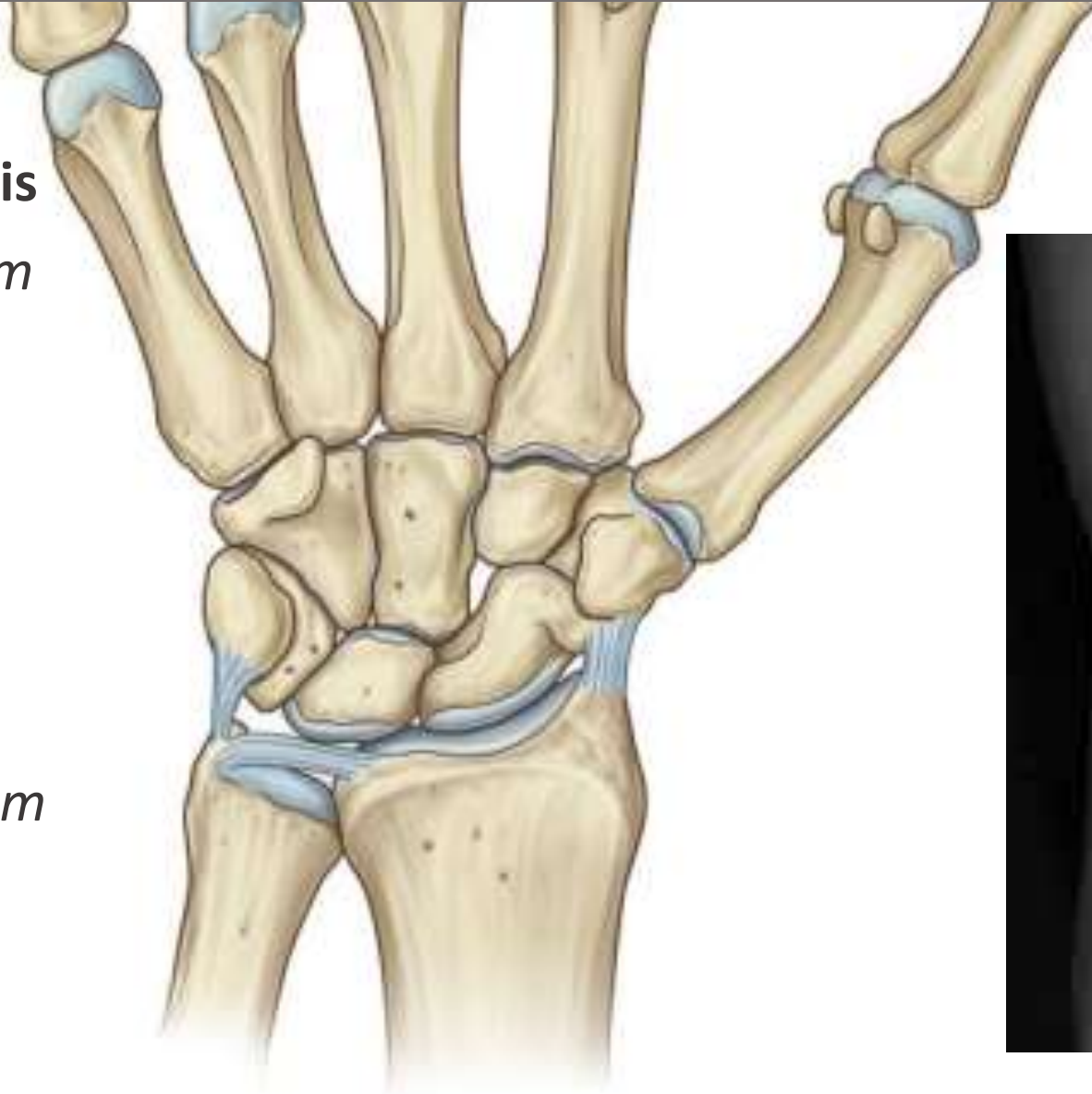


Gray's Anatomy 41th ed



Ossa metacarpi

- ♦ **Linea proximalis**
- ♦ *Os scaphoideum*
- ♦ *Os lunatum*
- ♦ *Os triquetrum*
- ♦ *Os pisiforme*
- ♦ **Linea distalis**
- ♦ *Os trapezium*
- ♦ *Os trapezoideum*
- ♦ *Os capitatum*
- ♦ *Os hamatum*





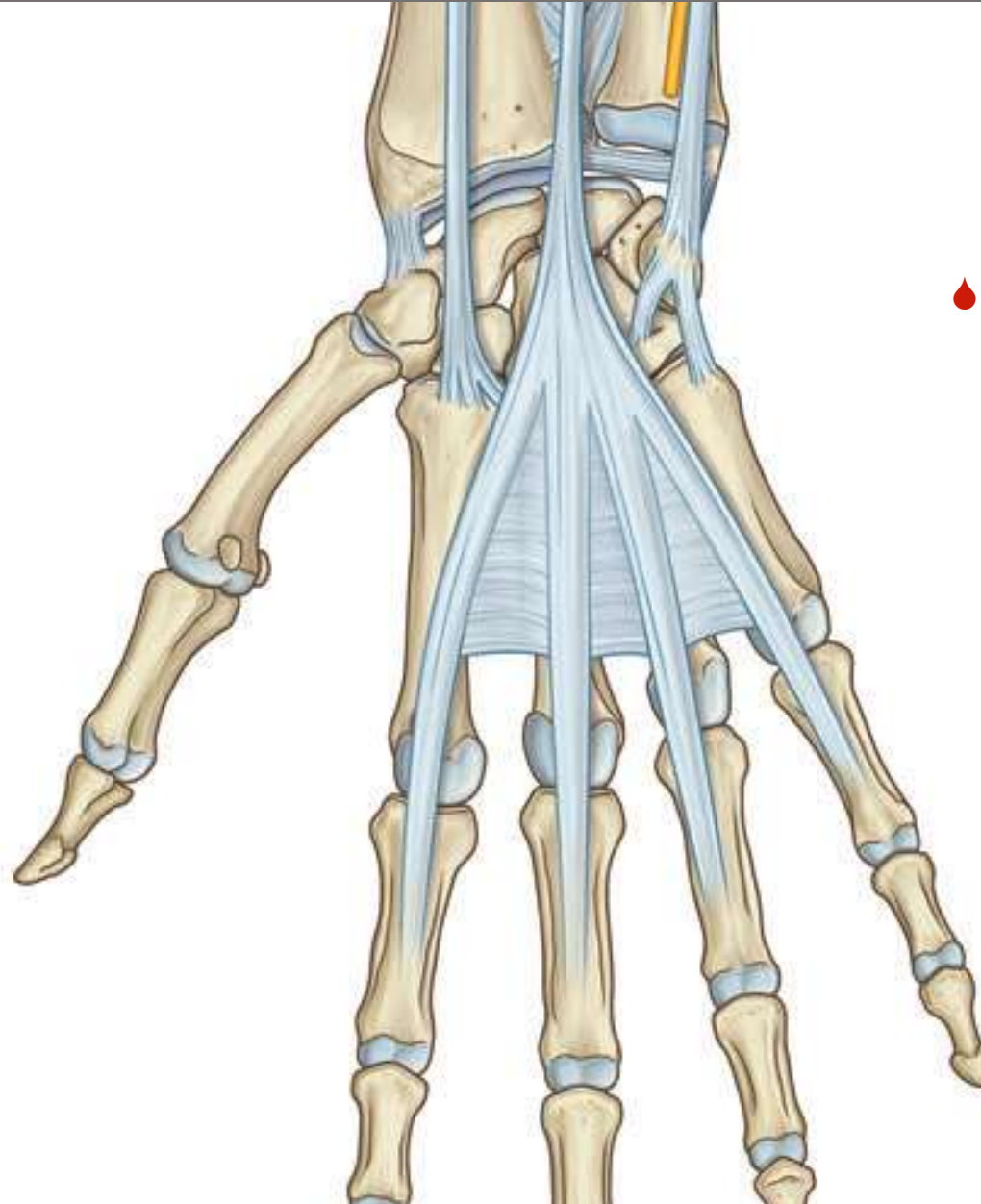


- **Linea proximalis**
- *Os scaphoideum*
- *Os lunatum*
- *Os triquetrum*
- *Os pisiforme*
- **Linea distalis**
- *Os trapezium*
- *Os trapezoideum*
- *Os capitatum*
- *Os hamatum*



- **Linea proximalis**
- *Os scaphoideum*
- *Os lunatum*
- *Os triquetrum*
- *Os pisiforme*
- **Linea distalis**
- *Os trapezium*
- *Os trapezoideum*
- *Os capitatum*
- *Os hamatum*

Svalové úpony



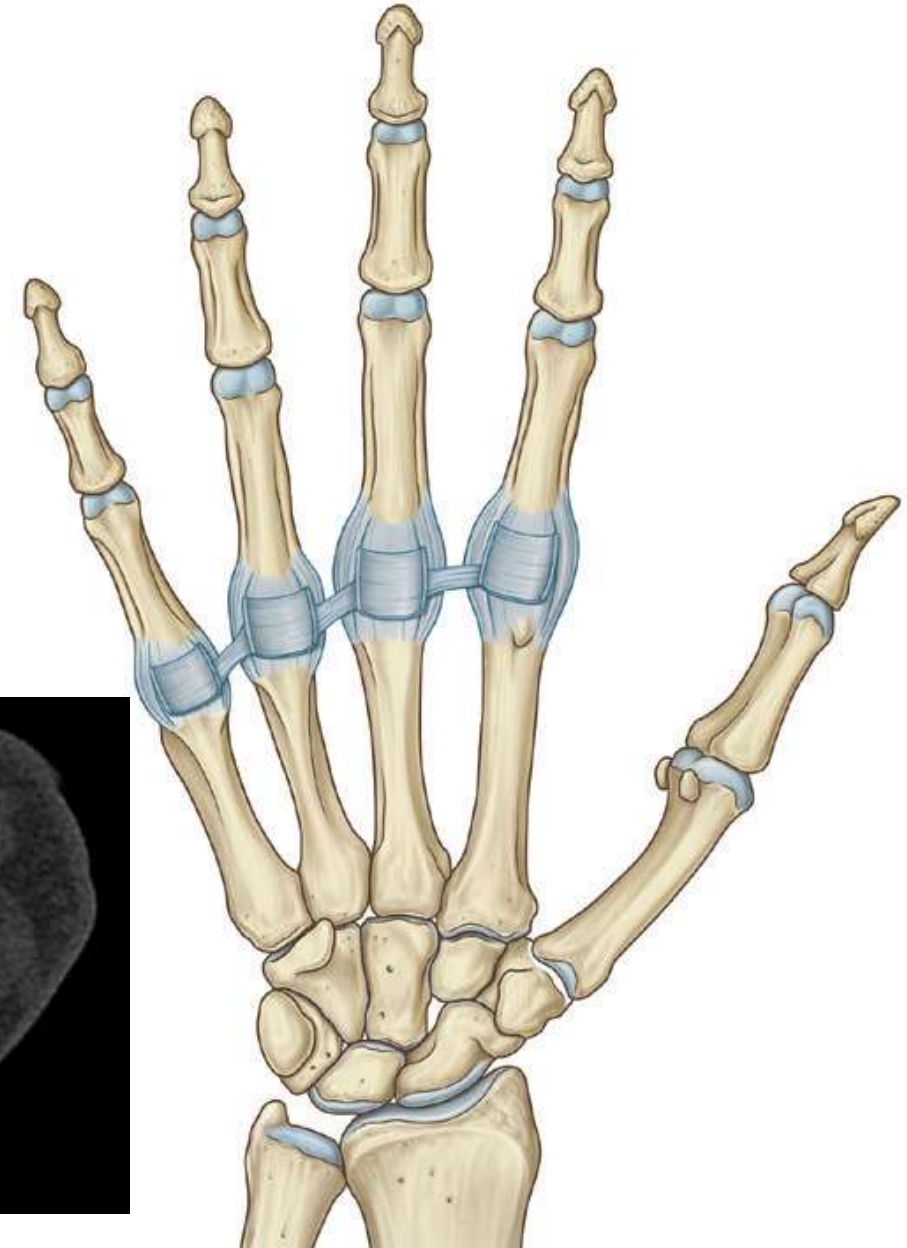
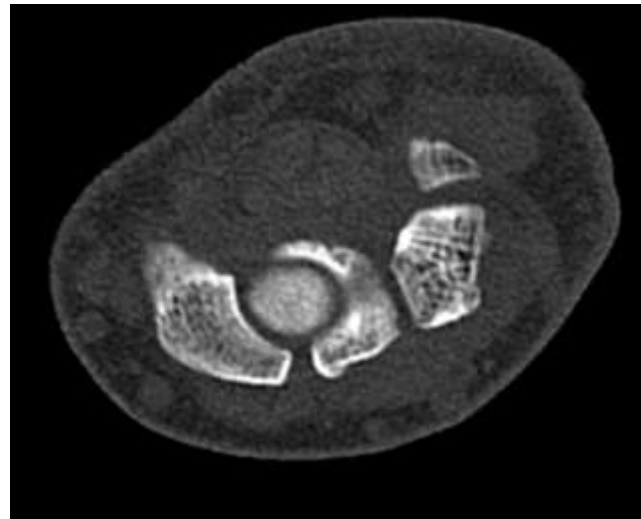
♦ ***M. flexor carpi ulnaris***

- ♦ *Olecranon a dorsum ulnae*
- ♦ *Epiconylus medialis humeri*
- ♦ *Os pisiforme*
- ♦ *Lig. pisohamatum*
- ♦ *Lig. pisocarpeum*

Articulationes carpi et manus

- ♦ Art. interphalangeales distales
- ♦ Art. interphalangeales proximales
- ♦ Art. carpometacarpea pollicis (sellaris)
 - ♦ *Lig. collateralia*
- ♦ Art. carpometacarpeae II-V (amphiarthrosis)
 - ♦ *Ligg. palmares (laminae fibrocartilagineae palmares)*
 - ♦ *Ligg. collateralia*
 - ♦ *Ligg. metacarpalia transversa profunda*
- ♦ Art. mediocarpea (art. spheroides)
 - ♦ *Ligg. intercarpalia*
- ♦ Art. radiocarpea- discus
- ♦ Art. radioulnaris distalis
 - ♦ *Radius - incisura ulnaris*

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Retinaculum flexorum

- ♦ **Spojení laterálního a mediálního hřebene karpu**

- ♦ *Tuberculum ossis trapezii*
- ♦ *Os pisiforme*
- ♦ *U - prostor*

- ♦ **Pod retinakulem**

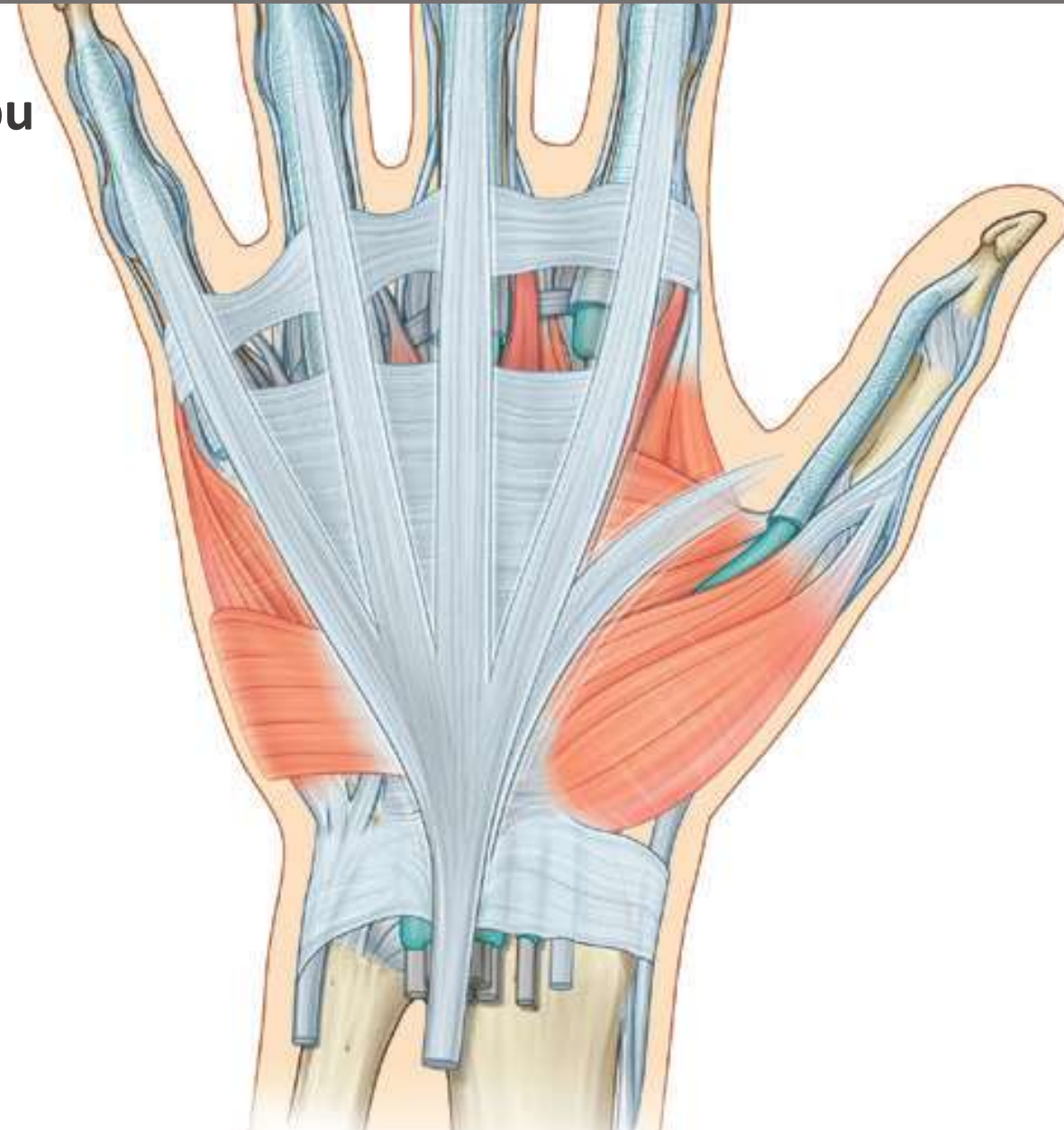
- ♦ *N. medianus*
- ♦ *Mm. flexores digitorum superf. et prof. (T)*
- ♦ *M. flexor pollicis longus (T)*

- ♦ **V retinakulu**

- ♦ *M. flexor carpi radialis (T)*

- ♦ **Nad retinakulem**

- ♦ *N. ulnaris*
- ♦ *A. ulnaris*
- ♦ *M. palmaris longus (T)*



mm. Flexores profundi et superficiales



M. flexor digitorum superficialis - phalanges medii II., III., IV., V.

M. flexor digitorum profundus - phalanges distales II., III., IV., V.

Palma manus

♦ **Aponeurosis palmaris**

- ♦ *Trojúhelníkovité ztluštění hluboké fascie*
- ♦ *Ukotvení k retinaculum flexorum*
- ♦ *Pokračování šlach m. palmaris longus*
- ♦ **Pod palmární fascií nervy a cévy**

♦ **Fasciculi longitudinales**

- ♦ *Ukotvení do podkoží - střední část*
- ♦ *Ukotvení na dorsa prstů - postranní části*

♦ **Fasciculi transversi**

♦ **Fasciculi praetendinosi**

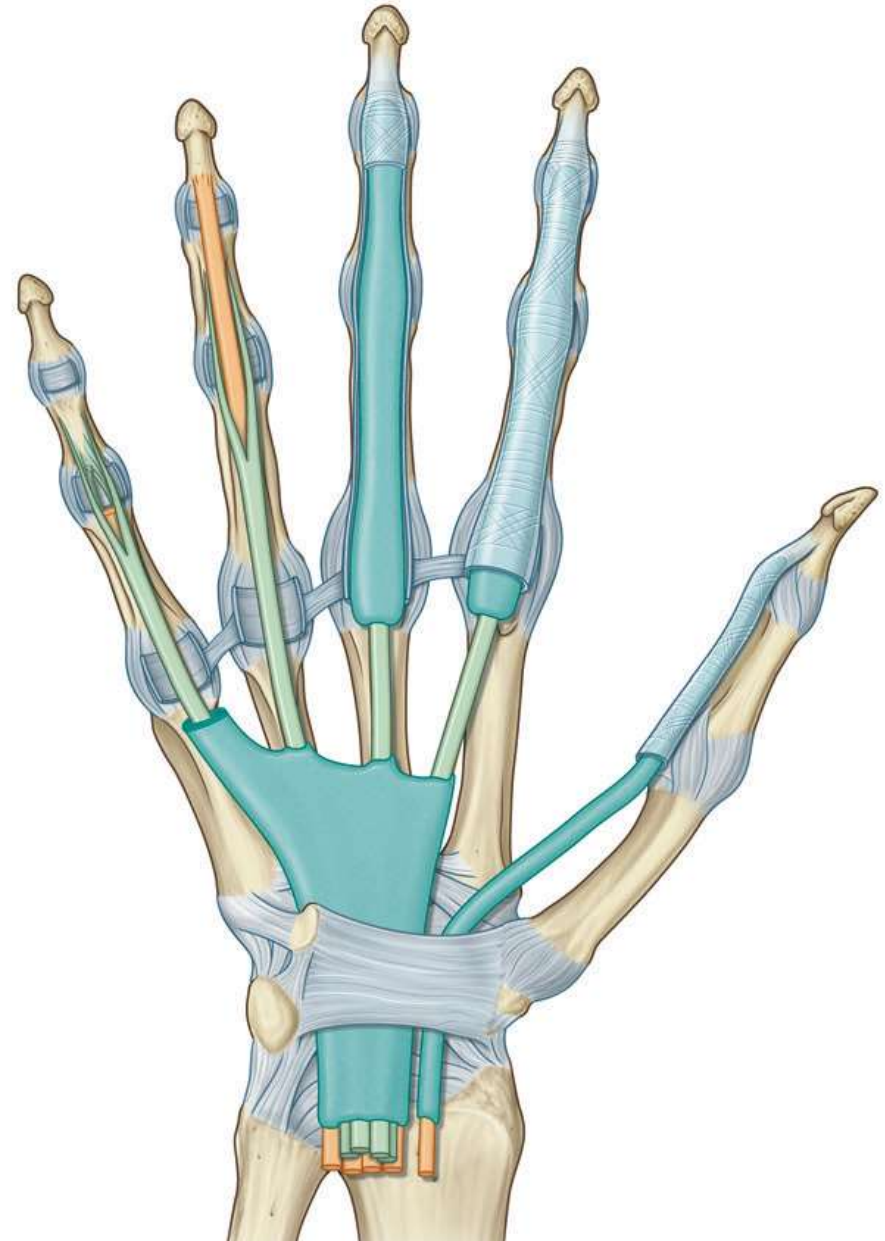
♦ **M. palmaris longus - tendines**

♦ **M. palmaris brevis - hypothenar**



Vaginae tendineae manus

- ♦ **Vagina synovialis mm. flexores**
- ♦ **Vagina synovialis m. flexoris pollicis**
- ♦ **Vagina synovialis digitorum**
- ♦ **Úpony šlach**
- ♦ **M. flexor digitorum superficialis**
 - ♦ *Rozvětvení šlach - úpony ve středním článku*
- ♦ **M. flexor digitorum profundus**
 - ♦ *Prochází rozvětvenou šlachou k distálnímu článku*



Membrum superius 1

Prof. MUDr. Jiří Ferda, Ph.D.