

Brachial Plexus



SCRUBS

STUDENT COLLABORATIVE RESOURCES FOR UNDERSTANDING AND BRODY SUCCESS

Mission Statement

SCRUBS is a student-driven initiative that aims to develop supplemental resources for current and future cohorts that will pass through Brody. Members of **SCRUBS** participate in a variety of sub-committees working to create resources for students, by students. These resources aim to offer unique perspectives from students that have walked in the same shoes, developing resources that we wish we had been exposed to during our time in the course.

The hope is this organization will become a staple of the Brody student body, exemplifying the unique collaborative community that Brody offers. If this is a mission that aligns with your goals and you have the desire to help those that will come behind you, as well as a goal to leave your mark on Brody as a whole, we invite you to join the team!

Disclaimer

The resources that are included in this document are made by students and not the faculty. As such, there is the possibility for errors in our development, although this is mitigated via a team approach to development with multiple stages of vetting. If there is a contradiction with the coursework presented within your course, please go by the course documents. Additionally, **SCRUBS** aims to supply ***supplemental resources***, however these are in no way replacements to the instruction of the Brody faculty. Use these resources as a supplement, but not as your primary source for course material.

Organization

Composed of anterior rami fibers from C₅-T₁

Roots → **T**runks → **D**ivisions →

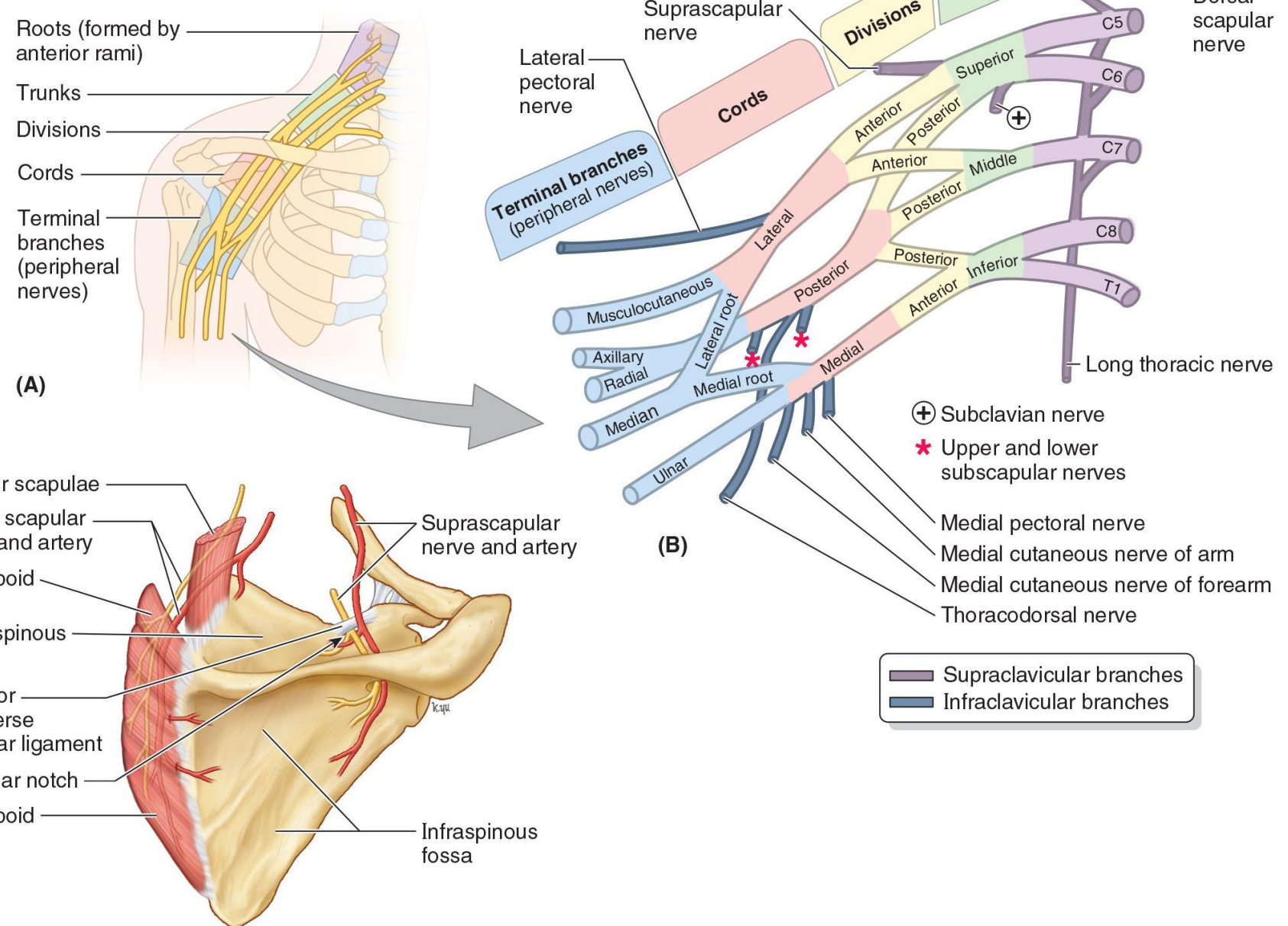
Cords → **B**ranches

Remember to drink cold beer

Anterior division: Supply pre-axial muscles

Posterior division: Supply post-axillary muscles

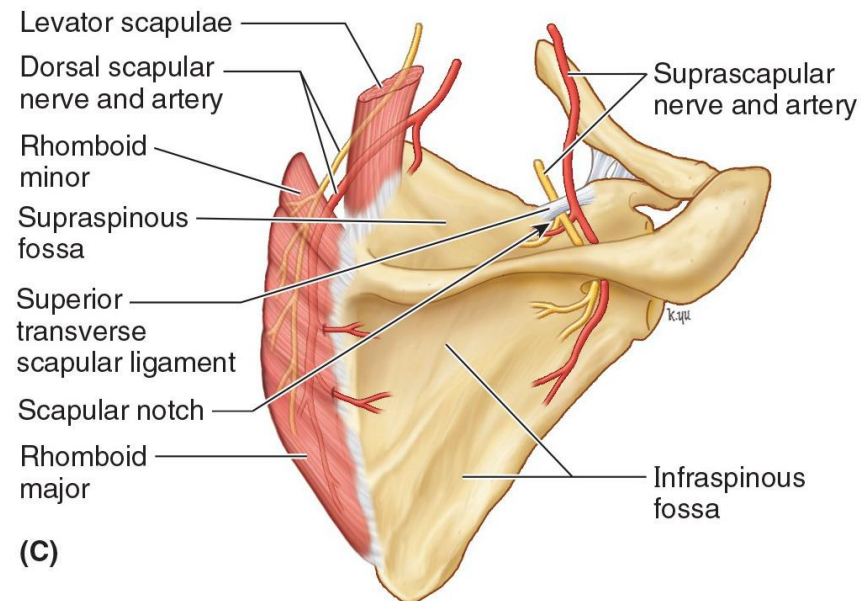
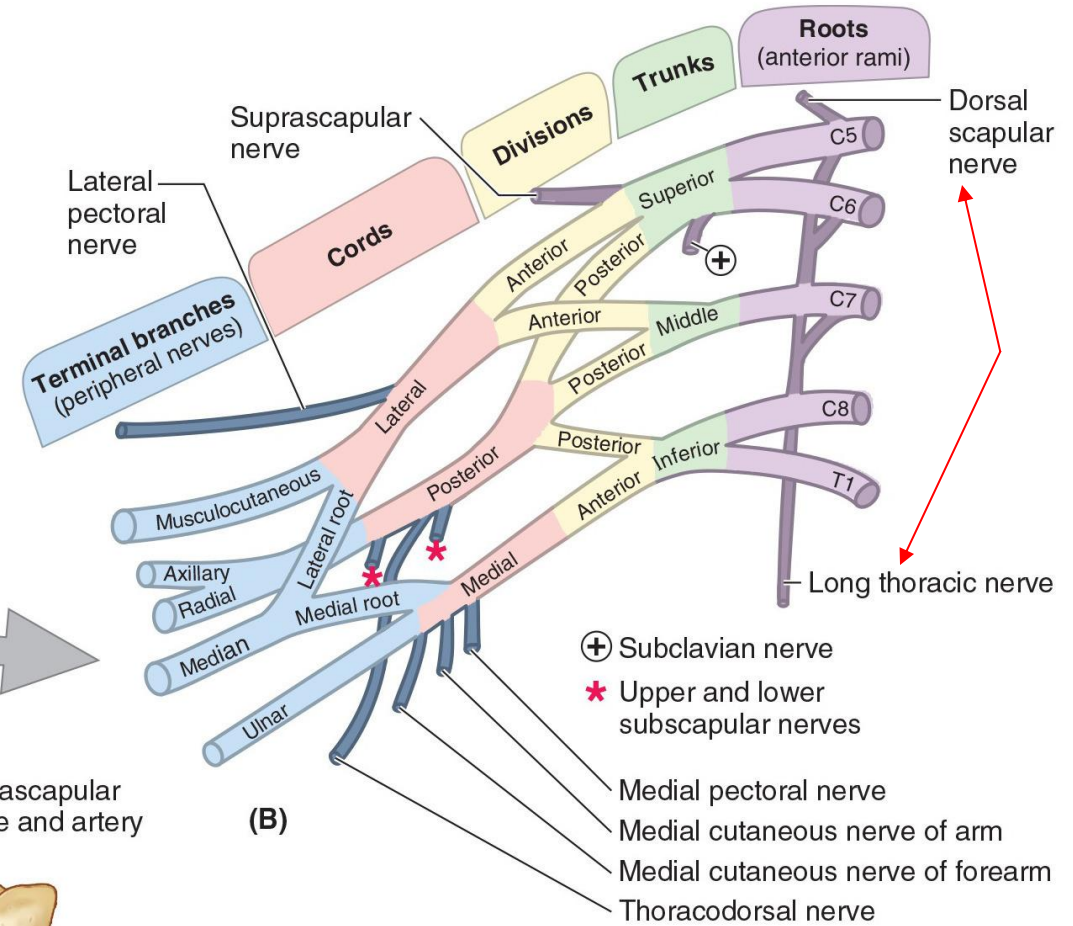
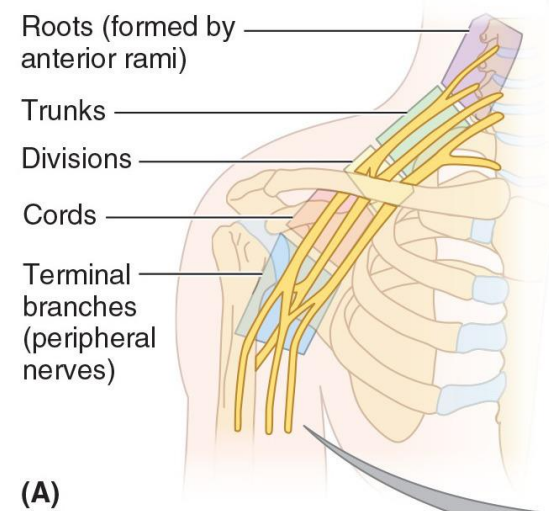
No parasympathetic fibers are contained in the brachial plexus, sympathetic fibers enter through the gray rami communicans



Roots

Nerves Directly Off the Roots

- Dorsal scapular nerve: C₅
- Levator scapulae, Rhomboids
- Long Thoracic Nerve: C₅-C₇
- Serratus Anterior



- Supraclavicular branches
- Infraclavicular branches

The Trunks

Superior Trunk: C₅-C₆

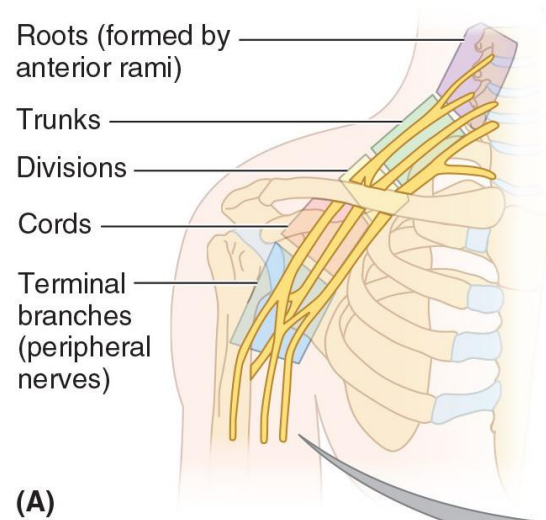
Middle Trunk: C₇

Inferior Trunk: C₈-T₁

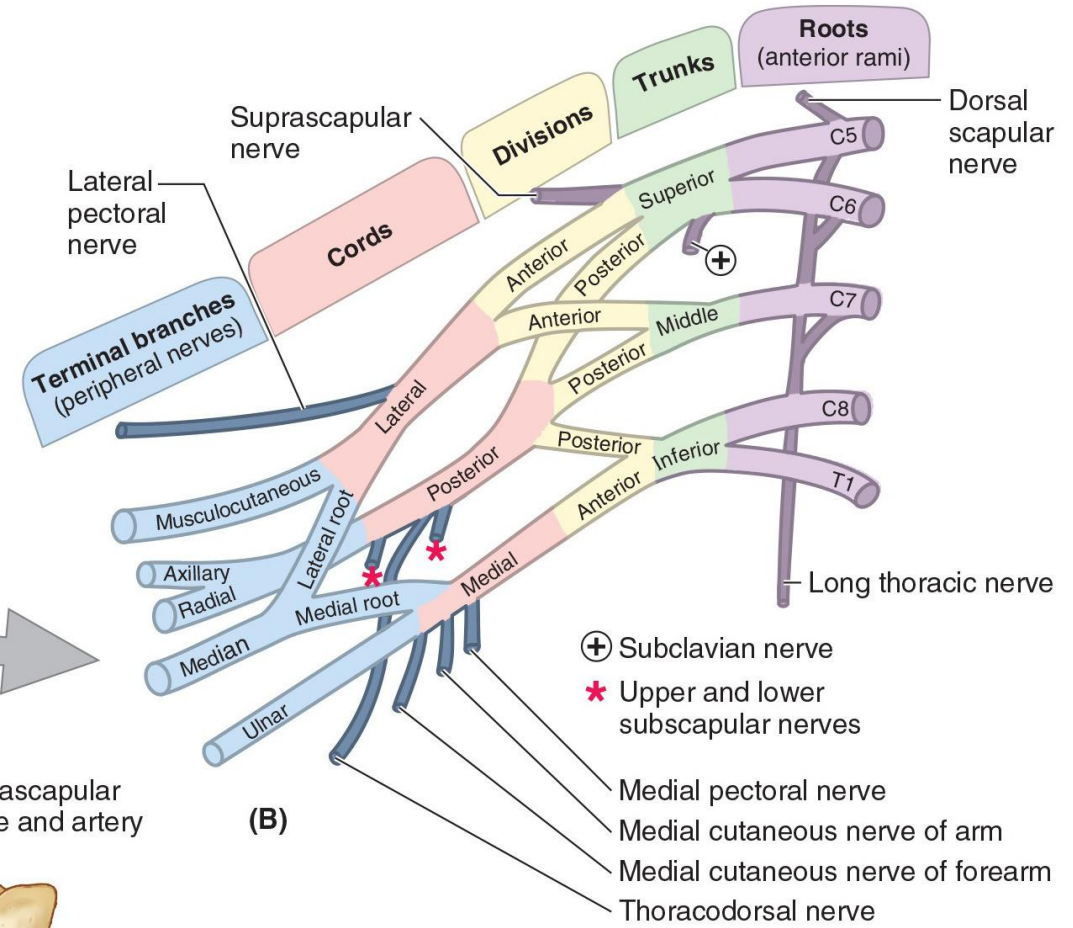
Nerves coming off the trunks
(Superior Trunk Only)

Suprascapular: C₅-C₆
Supraspinatus, Infraspinatus

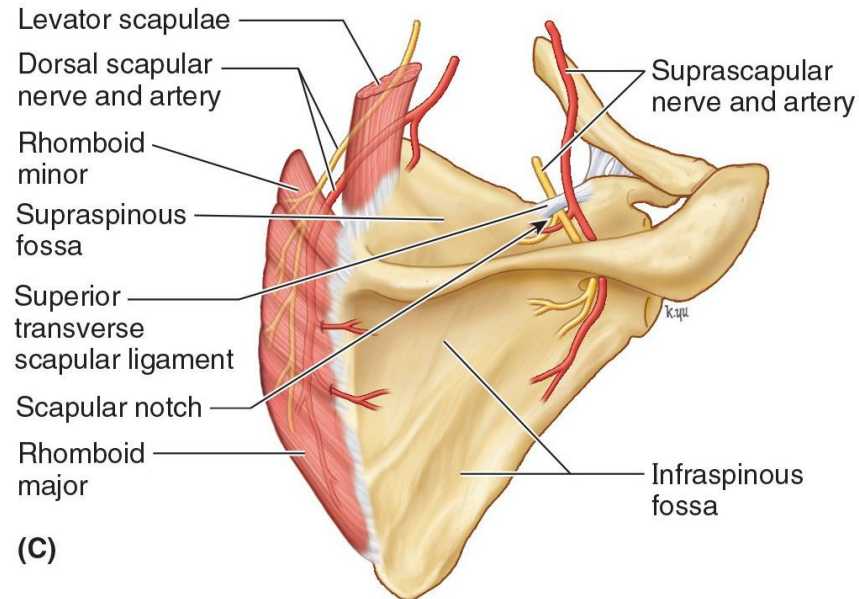
N. To Subclavius: C₅-C₆
Subclavius



(A)



(B)



(C)

Cords

Named based on relationship to axillary artery

Lateral Cord: C_5-C_7

Lateral Pectoral Nerve (C_5-C_7)
- Pectoralis Major (clavicular head)

Posterior Cord: C_5-T_1

Upper subscapular (C_5-C_6)
- Subscapularis

Thoracodorsal (C_6-C_8)
- Lat. Dorsi

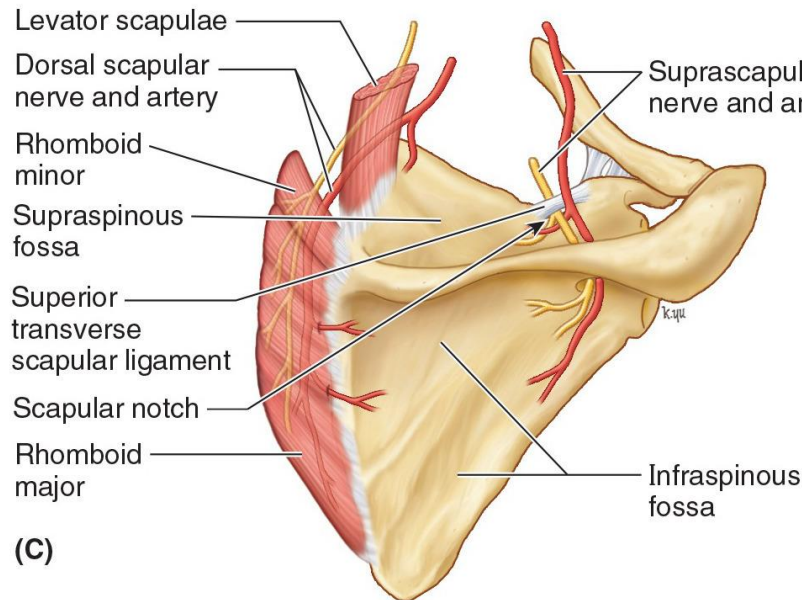
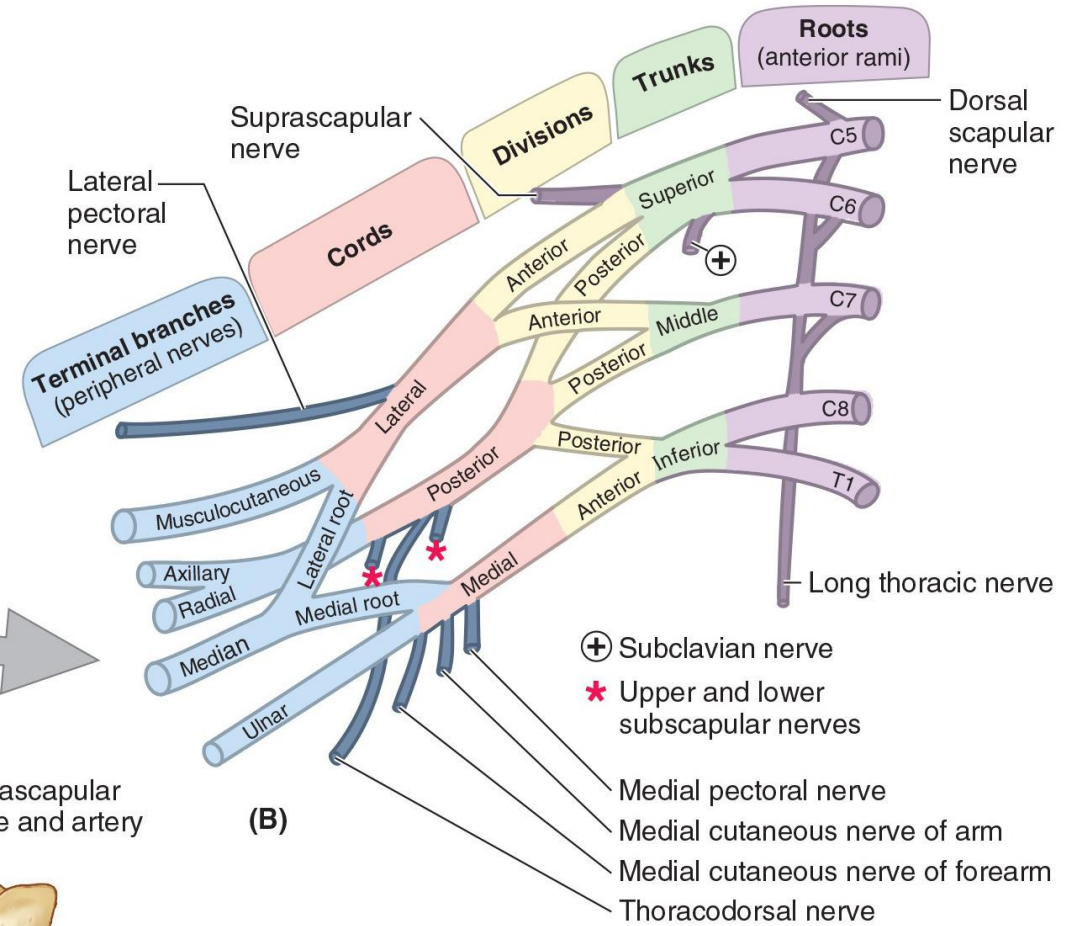
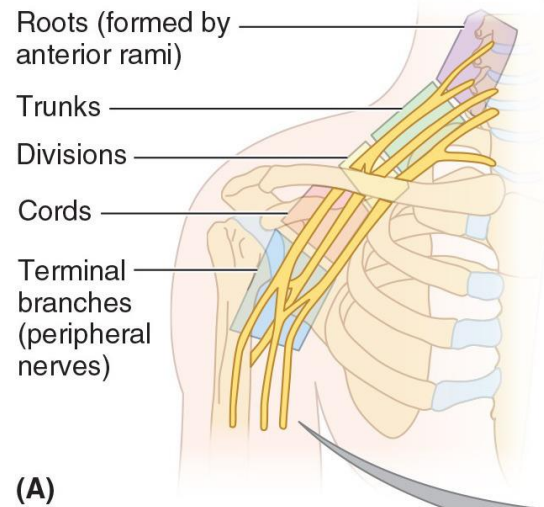
Lower Subscapular (C_5-C_6)
- Subscapularis & Teres Major

Medial Cord: C_8-T_1

Medial pectoral
- Pec Major (st.costal) & Minor

Medial brachial cutaneous
- Skin of this region

Medial antebrachial cutaneous
- Skin of this region



Terminal Branches

Musculocutaneous C₅-C₇

B. Brachii, Coracobrachialis, Brachialis & skin of lateral forearm

Axillary C₅-C₆

Deltoid, Teres minor, skin of lateral shoulder

Radial C₅-T₁

Extensor arm and forearm, skin of posterior brachium, antibrachium, and dorsum hand

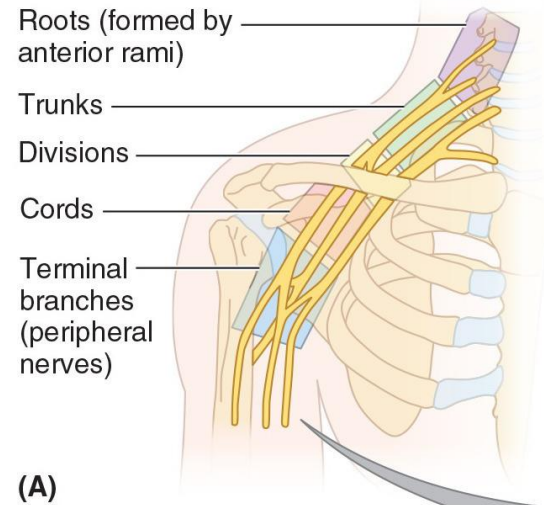
Median C₅-T₁

6.5 flexor forearm muscles, 5 hand, skin of palmar hand (lateral)

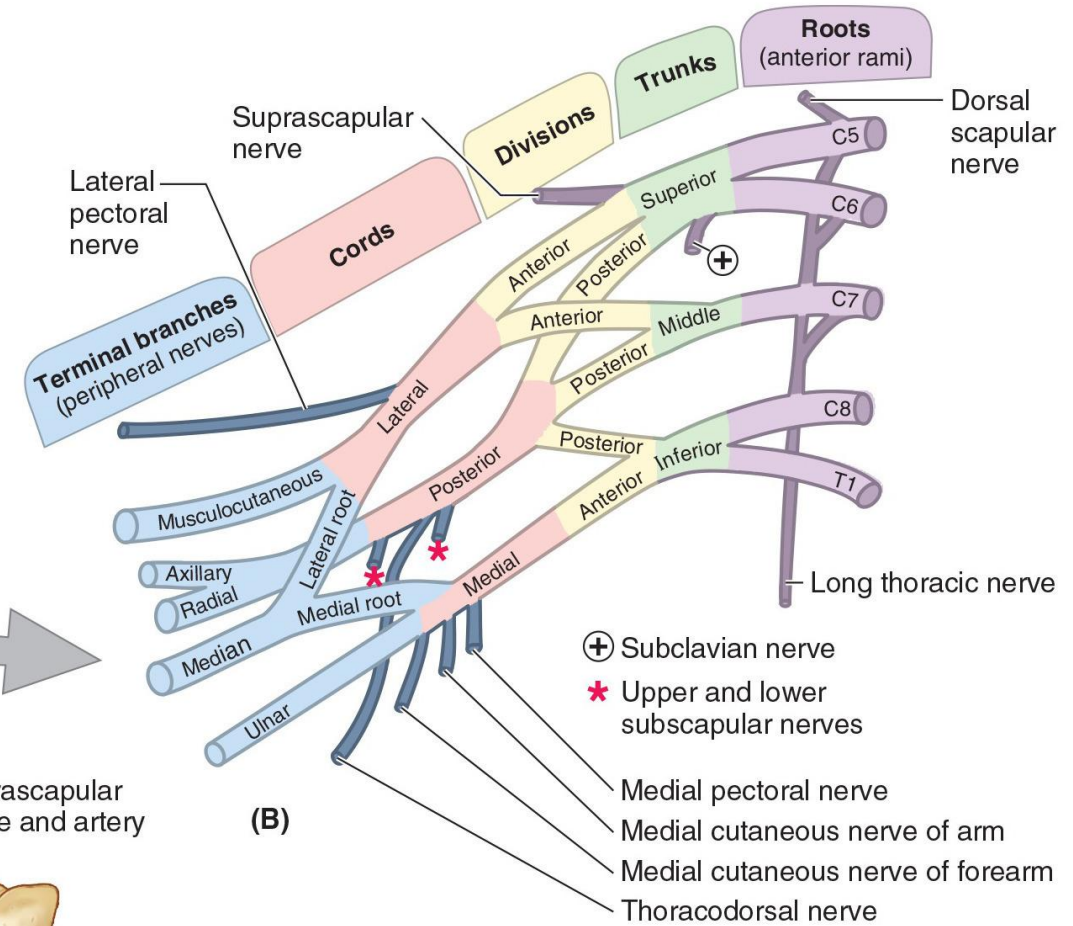
Ulnar C₈-T₁

1.5 flexor forearm, rest of hand, skin of palm (medial)

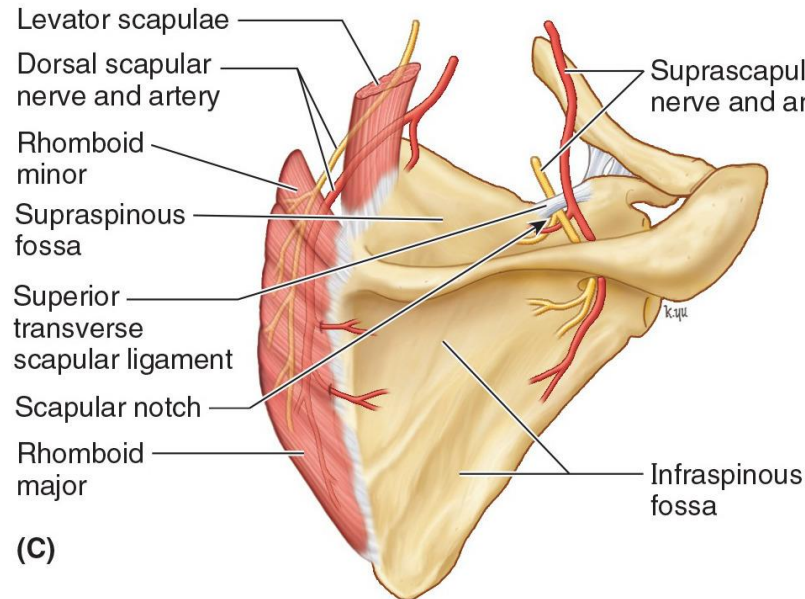
MARMU



(A)

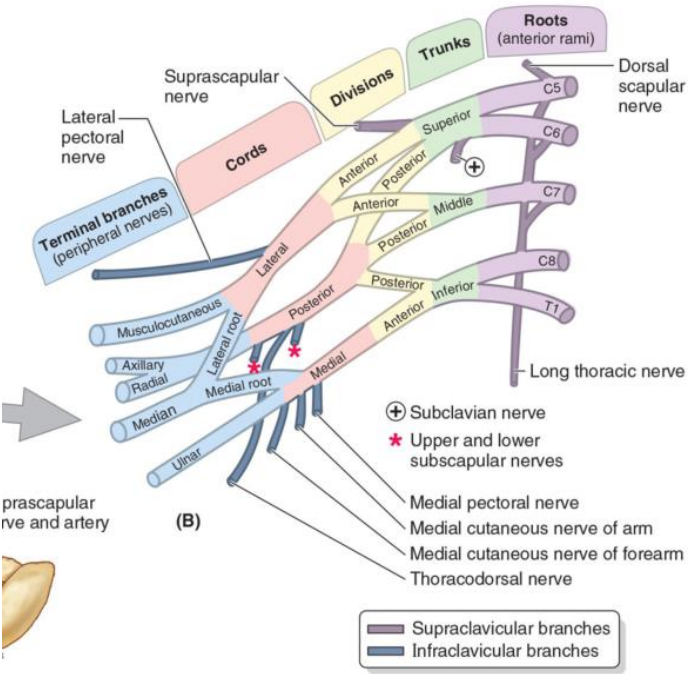


(B)

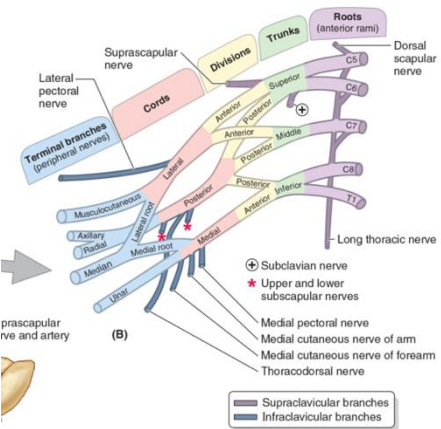
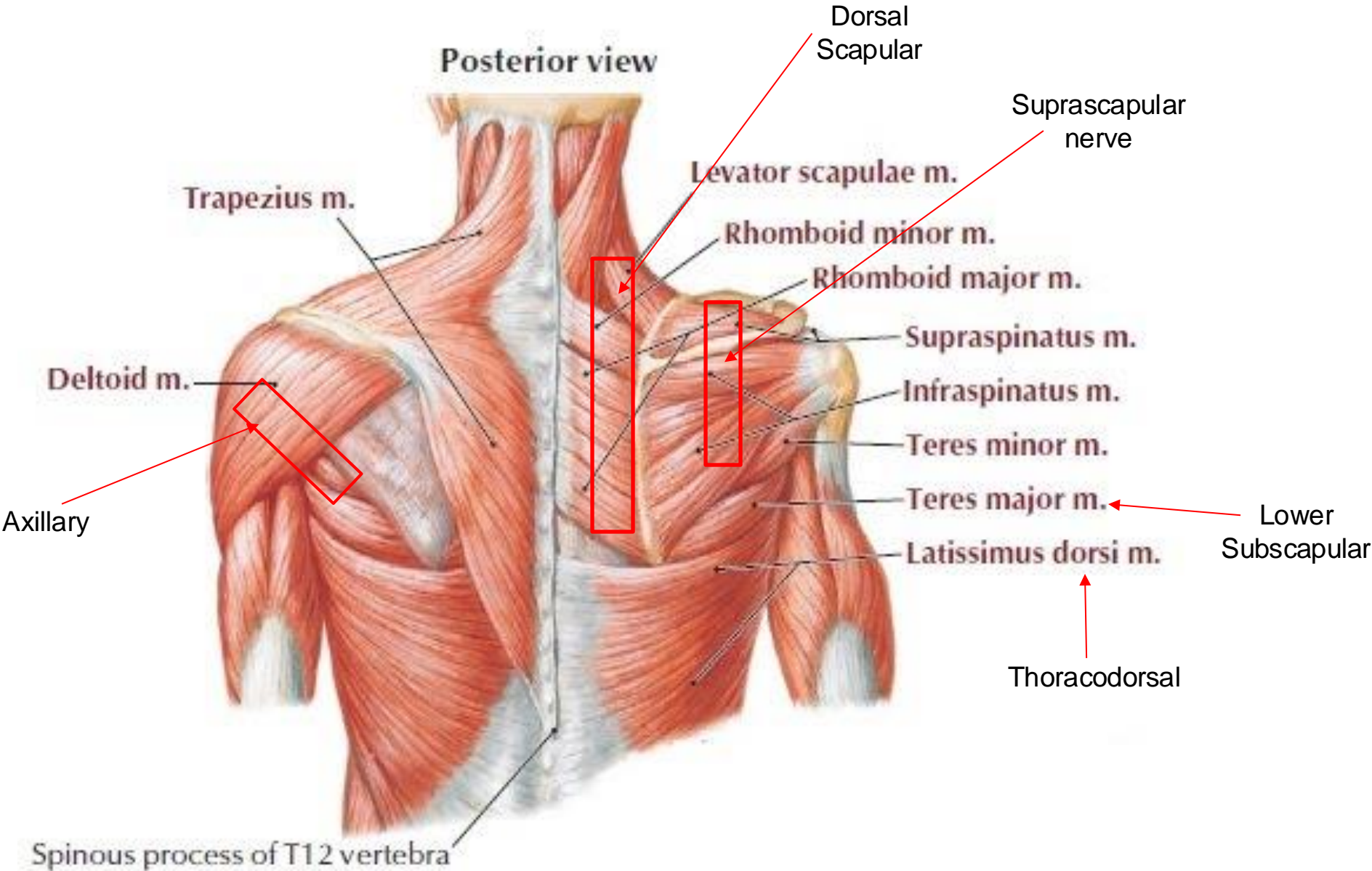


(C)

Quick Draw

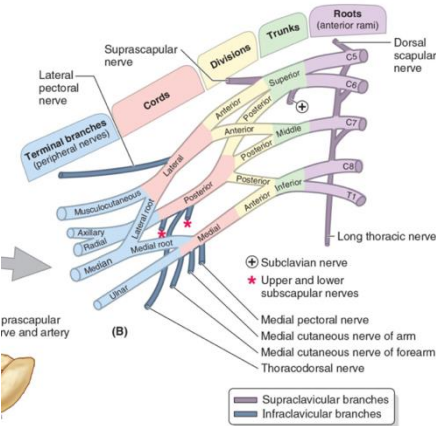
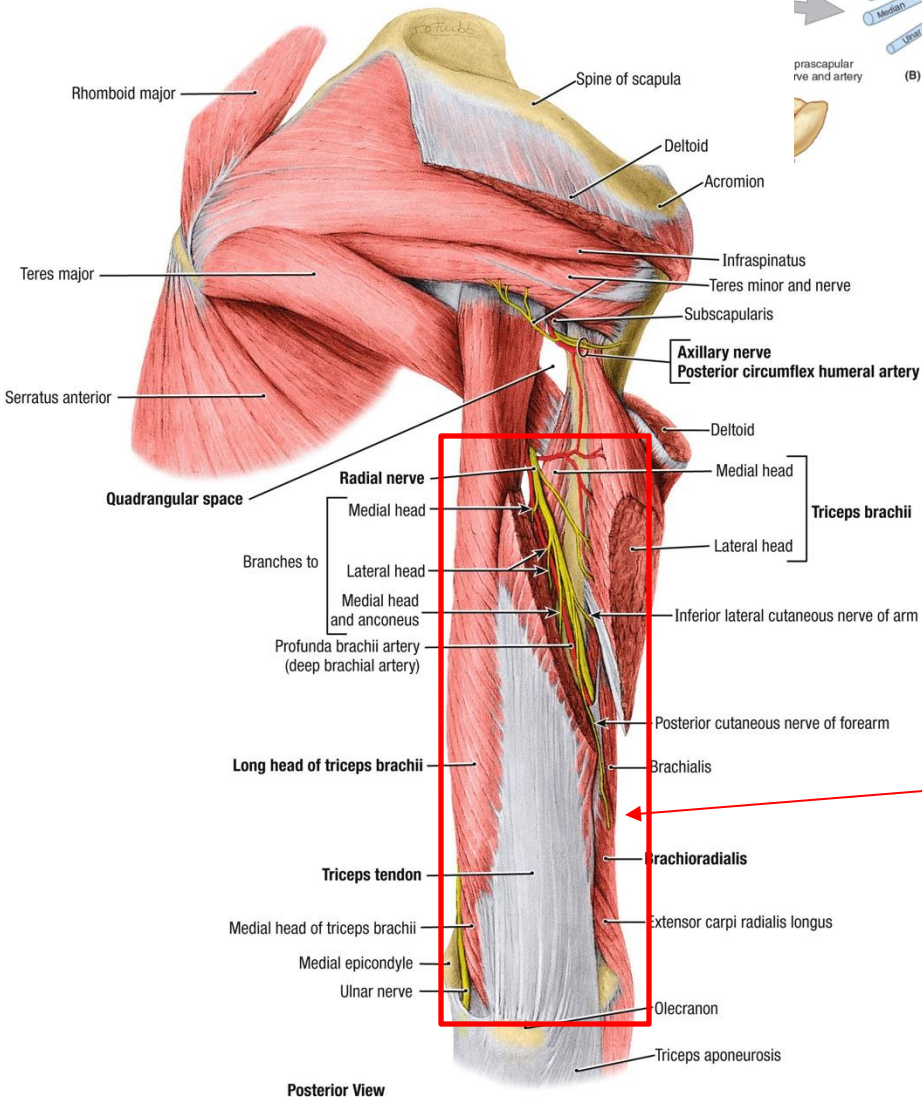
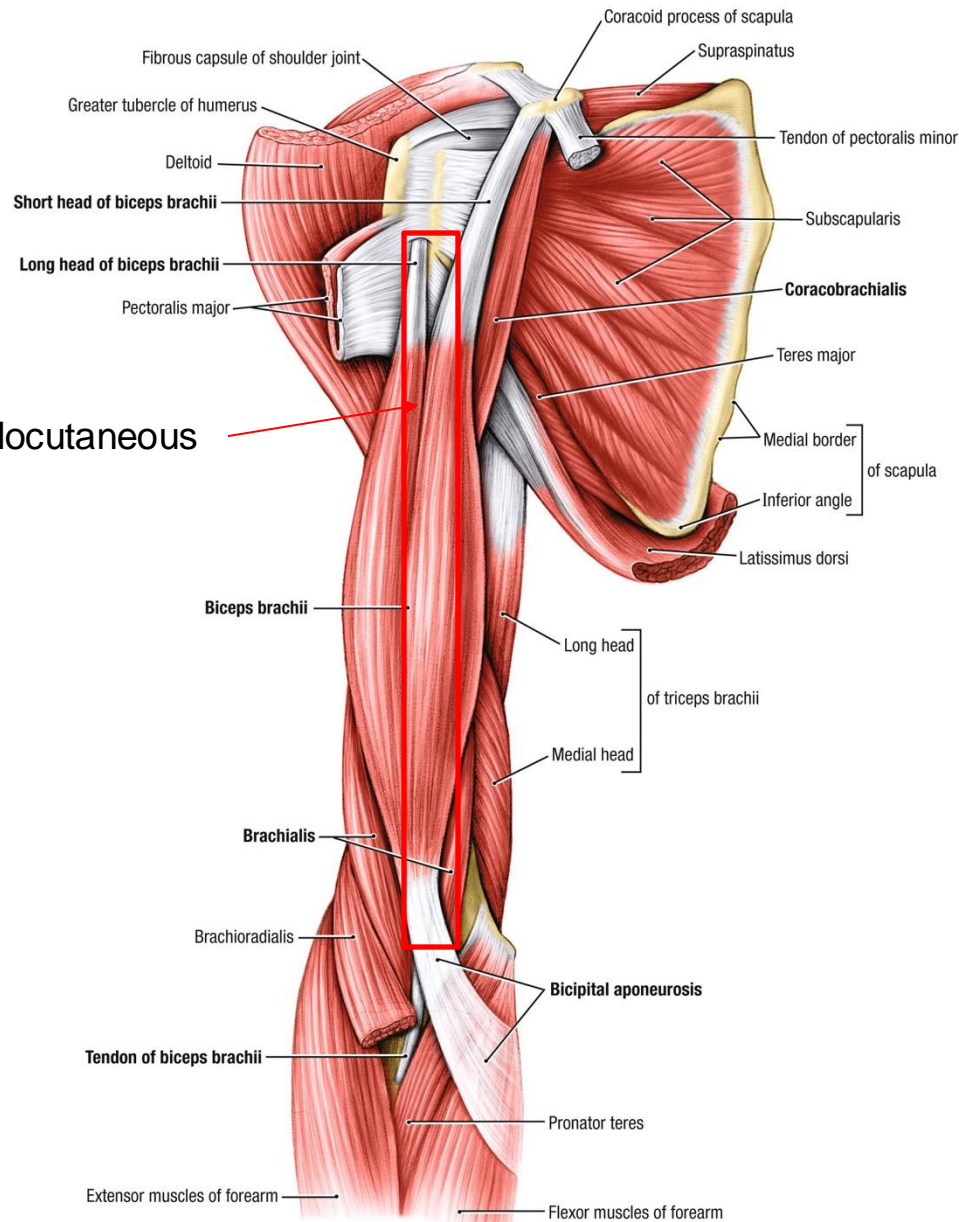


Regional Distribution



Regional Distribution

Musculocutaneous

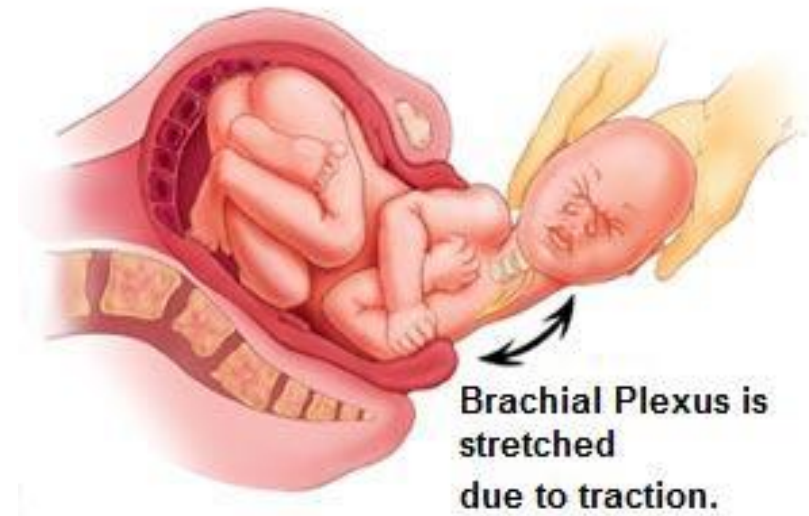
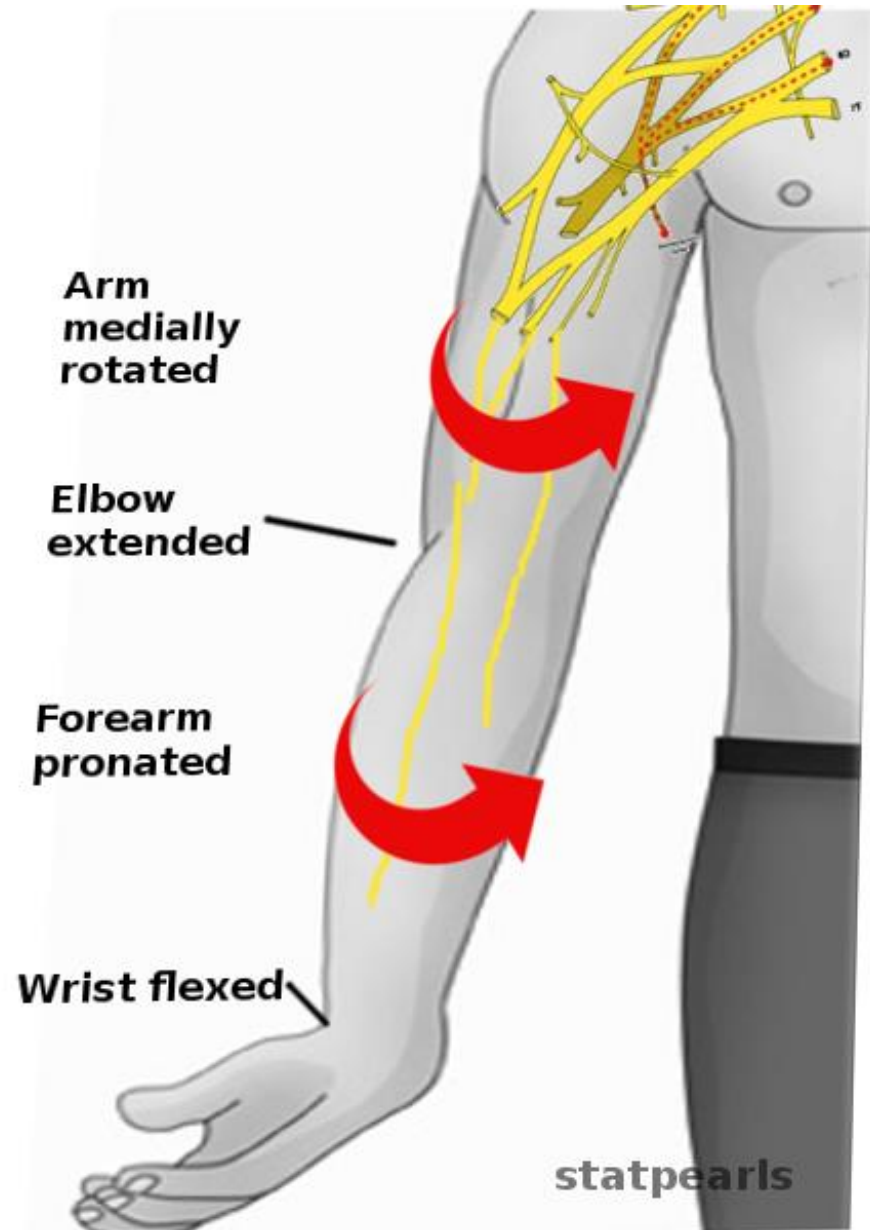


Radial Nerve

A. Anterior View

Posterior View

Upper Brachial Plexus Injury – Erb Duchene Paralysis



Lower Brachial Plexus Injury – Klumpke's Paralysis

