

BLOCK GuRU - Upper Limb

INTERSCALENE

SUPRACLAVICULAR

INFRACLAVICULAR

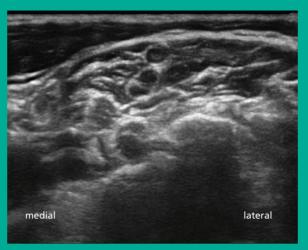
AXILLARY

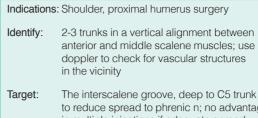








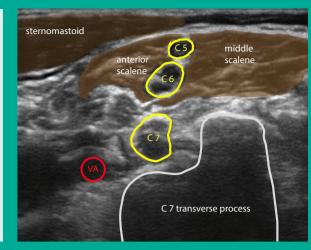




The interscalene groove, deep to C5 trunk to reduce spread to phrenic n; no advantage in multiple injections if adequate spread

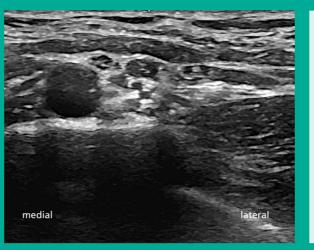
Scan up from supraclavicular region if necessary Tips:

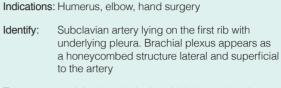
Intravascular injection or pneumothorax are major complications; beware the vertebral artery which lies deeper but within needle range; phrenic nerve or sympathetic blockade are common with large volume injection







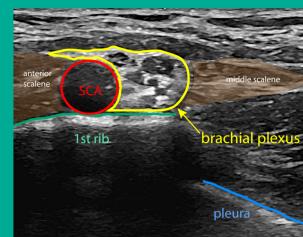




2-3 injections in the brachial plexus sheath, ensuring LA spread to the "corner pocket" between the artery and rib and any superficial

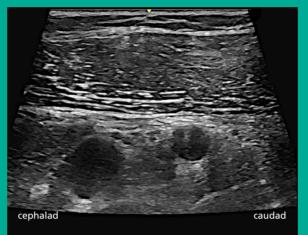
Keep the 1st rib in view beyond the needle tip to Tips: protect against pneumothorax

Pneumothorax: avoid needle tip beyond the 1st rib - keep tip in view throughout









Indications: Humerus, elbow, hand surgery

Pectoralis major & minor, axillary artery and vein, 3 cords arranged around the artery

Target: Posterior to artery and check spread to other cords, add injection to other cords if necessary

Arm abduction improves view and needle access beneath the clavicle but is not essential: plexus lies deeper than other approaches; pectoral muscles help anchor

Vessels, pneumothorax (keep in plane)









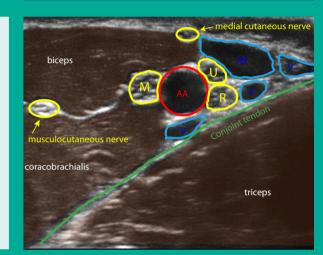
Indications: Elbow, forearm, hand surgery Axillary artery (sometimes multiple), veins (often multiple), conjoint tendon of teres major and

latissimus dorsi. 4 nerves (musculocutaneous. median, ulnar, radial) lie above that tendon Each nerve in turn, plus subcutaneous infiltration

for intercostobrachial n Scan distally to confirm nerve identity (median n stays with brachial artery, ulnar n moves medially and superficially to the cubital tunnel, radial n dives deep towards the triceps border of humerus with the profunda brachii artery); nerve stimulator can be used to confirm; considerable variation

in position of nerves; block radial before more superficial nerves to preserve ultrasound image

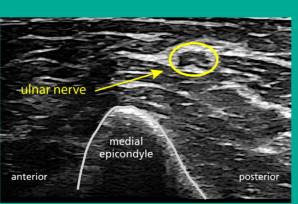
Intravascular injection (multiple vessels) - watch ultrasound for injectate spread on each injection, avoid intrafascicular nerve trauma

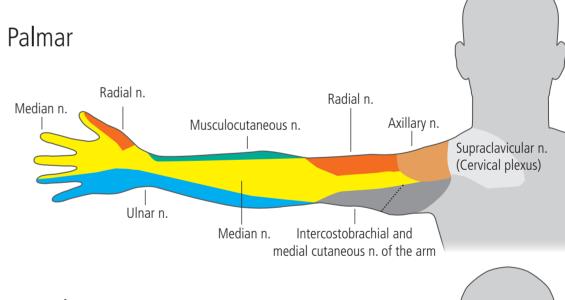


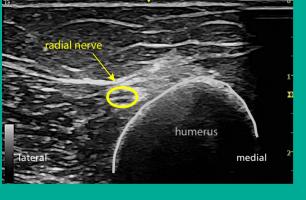








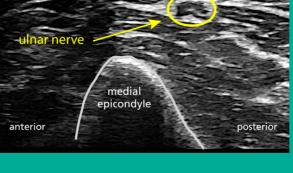


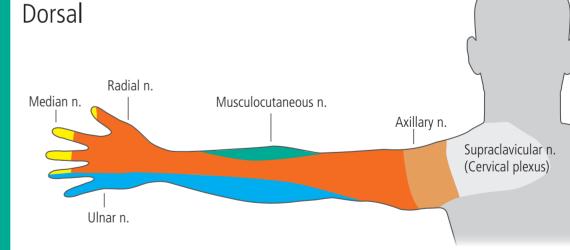




The nerve lies immediately medial to the

brachial artery just above the elbow skin





Proximal Flex the elbow, look for the rounded appearance of the nerve looping around the distal humerus

RADIAL

joint surface is visible

Radial nerve here has a characteristic ovoid

appearance (2 components + artery), elbow

MEDIAN

Proximal

Distal

Hyperechoic honeycombed structure in the centre of 3 fascial planes, scan down to the wrist to confirm

ULNAR Nerve lies on the medial side of the ulnar artery, scan proximally until they separate

Proximal Above the medial epicondyle before the nerve

enters the cubital tunnel

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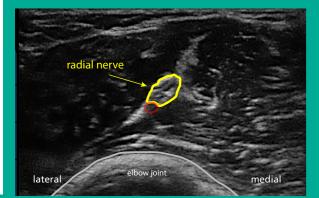


















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