UPPER LIMB MUSCLES	ANATOMICAL LOCALISATION
Flexor digitorum Superficialis	Grasp wrist, point the index finger to biceps
C7 C8 T1	tendon, place needle ulnar to tip of finger a the
Middle and lower truncs	middle and upper third junction of the forearm
Lateral and medial cords	to get slip of muscle to middle finger, insert 2 cm
N medianus	deep to get to the muscle perpendicular to the
	skin
Flexor pollicis longus	At the mid forearm, below shaft of radius, ulnar
C7 C8 T1	side
Middle and lower truncs	
Lateral and medial cords	
N medianus (n interosseous anterior)	
Pronator Quadratus	Supinate hand with elbow bent, 2 finger breadth
C7 C8	proximal to midpoint form inter styloid process
Middle and lower trunks	line, insert needle from dorsal surface to avoid
Lateral and medial cord	nerves and vessels, penetrate interosseous
N medianus (n interosseous anterior)	membrane
Flexor pollicis brevis	1/3 <sup>rd</sup> of distance from ulnar aspect of first
C8 T1	metacarpophalangeal joint to pisiform bone, 1
Lower trunk	cm deep or 1/3 <sup>rd</sup> distance between the tubercle
Medial cord	to the trapezium and base of the middle finger
Ulnar and median	
Adductor pollicis	Hand pronated, at free edge of first web space
C8 T1	
Lower trunc	
Medial cord	
ulnar	
First dorsal interosseous	1 finger breath distal form the angel between 1st
C8 T1	and 2 <sup>nd</sup> metacarpal bones midway between first
Lower trunc	and 2 <sup>nd</sup> metacarpal, aim the needle toward the
Medial cord	head of the 2 <sup>nd</sup> MCP at 30 degrees angle
ulnar	
Abductor digiti minimi	Midway between distal wrist crease and distal
C8T1	palm crease in the ulnar edge of the hand
Lower trunk	
Medial cord	
ulnar	
Opponens digiti minimi	Midway between midpoint pisiforme and
C8T1	midpoint 5 <sup>th</sup> MCP
Lower trunk	
Medial cord	
ulnar	
Abductor pollicis brevis	Midway between trapezium just lateral to flexor
C8T1	carpi radialis attachment at the wrist and the
Lower trunk	radial MCP, insert needle just lateral to the
Medial cord	junction of the palmar and dorsal surface, aim
median	the needle toward the bulk of the muscle

UPPER LIMB MUSCLES	ANATOMICAL LOCALISATION
Opponens pollicis	Midway between radial aspect of 1st
C8T1	carpometacarpal and MCP 1. Straight in right
Lower trunk	next to the bone
Medial cord	
median	
Supinator	Lateral to the biceps brachii tendon on the radial
C5 C6 C7	tuberosity
Upper and middle trunk	
Posterior cord	
radial	
Extensor carpi ulnaris	Pronate hand, lateral to subcutaneous edge of
C7 C8	shaft of ulna at mid forearm
Middle and lower trunk	
Posterior cord	
Radial	
Posterior interosseus	
Extensor digitorum	Pronate hand, grasp forearm at wrist, drop index
C7 C8	finger at junction of proximal and mid third of
Middle and lower trunk	forearm, line up with lateral epicondyle
Posterior cord	
Radial	
Posterior interosseus	
Extensor indicis proprius	2 finger breath proximal to ulnar styloid and 1
C7 C8 Middle and lower trunk	finger breath radial to ulna in extensor forearm
Posterior cord	(same as pronator quadratus insertion point) aim the needle proximally
Radial	the fleedie proximally
Posterior interosseus	
Extensor pollicis longus	Distal 1/3th of extensor forearm, along radial
C7 C8	border of ulna
Middle and lower trunk	border or diffe
Posterior cord	
Radial	
Posterior interosseus	
Extensor pollicis brevis	4 fingerbreadths above radial styloid, 1 cm ulnar
C7 C8	to the edge of the radius
Middle and lower trunk	
Posterior cord	
Radial	
Posterior interosseus	
Abductor pollicis longus	4 fingerbreadths above radial styloid on the
C7 C8	radius
Middle and lower trunk	
Posterior cord	
Radial	
Posterior interosseus	

UPPER LIMB MUSCLES	ANATOMICAL LOCALISATION
Flexor carpi ulnaris	1/3th down ulna from olecranon, 2
C8 T1	fingerbreadth volar to subcutaneaous edge of
Lower trunk	shaft of ulna
Medial cord	
ulnar	
Flexor digitorum profundus	Flex wrist, elbow; 4 finger breath from olecranon
C8 T1	off ulna, deep to FCU for ulnar portion, for
Lower trunk	median portion insert the needle deep toward
Medial cord	midpoint of arm
Ulnar and median	
Anterior interosseus	
Pronator teres	Midway point between medial epicondyle and
C6 C7	biceps tendon, 2 finger breath distal to cubital
Upper and middle trunks	crease on a line toward the radial styloid
Lateral cord	
median	
Flexor carpi radialis	Midway point between medial epicondyle and
C6 C7	biceps tendon at the cubital crease, 4 finger
Upper and middle trunks	breath distal along the line that joins the
Lateral cord	midpoint and the radial styloid
median	
Romboid	34 of the way down at the medial edge of the
C5	scapula with the needle angled along the course
Dorsal scapular	of the rhomboid toward the spine
Levator scapulae	In a line extending from the medial angle of the
C3C4 cervical nerve	scapula to the occipital protuberance
C5 dorsal scapular	approximately 2,5 cm from the scapula
Serratus anterior	In lateral decubitus position, mid axillary line and
C5 C6 C7	four fingerbreadths below the axilla. Insert
Long Thoracic	needle directly above the rib. Keep fingers in the
	intercostal spaces.
Infraspinatus	Mid part of spine of scapula, draw a line to the
C5C6	angle of scapula. Insert the needle 5 cm below
Upper trunc	the spine on this line
Suprascapular	
Supraspinatus	Sitting, half way point between medial and
C5C6	lateral border of scapular spine at the superior
Upper trunc	edge
Suprascapular	
Teres minor	Patient prone with forearm over the table, with
C56	arm in abduction 90 degrees and elbow bent, 2
Upper trunc	cm distance under acromion on the line to angle
Posterior cord	of scapula along lateral margin of scapula
axillary	

LIDDED LIMB MUICCLEC	ANIATONAICAL LOCALICATION
UPPER LIMB MUSCLES	ANATOMICAL LOCALISATION
Latissimus dorsi	One fingerbreadth lateral to inferior angle of
C567	scapula. Aim the needle toward posterior axillary
Upper/ middle trunc	fold.
Posterior cord	
thoracodorsal	
Subscapularis	Lateral decubitus position on the side of the
C567	muscle to be examined. Shoulder in external
Upper/ middle trunc	rotation and abduction. Midpoint of medial edge
Posterior cord	and deep to the scapula, aiming to hug the
Upper and lower subscapular	anterior surface of the scapula
Teres major	Arm over the examination table, with shoulder
C567	at 90 ° abduction and elbow bent in prone
Upper/ middle trunc	position. 1/3 distance from the lower angle at
Posterior cord	the lower margin of the scapula
Upper and lower subscapular	
Anterior deltoid	Medial edge of acromion, 3 finger breadths
C5 (C6)	below on a line towards the biceps tendon
Upper trunc	
Posterior cord	
Axillary nerve	
Middle deltoid	3 to 4 fingerbreadths below the distal end of
C5 (C6)	acromion. To the bulk of the muscle around
Upper trunc	shoulder toward deltoid tuberosity
Posterior cord	
Axillary nerve	
Posterior deltoid	Posterior edge of acromion, 3 fingerbreadth
C5 (C6)	below on a line toward olecranon
Upper trunc	
Posterior cord	
Axillary nerve	
Triceps lateral head	1/3th of the way above the elbow on the lateral
C6C7(C8)	side of the arm just posterior to the humerus
Upper and middle trunc (and lower trunc)	with elbow flexed and rested on the exam table
Posterior cord	with hand on the body in pronation, insert the
Radial nerve	needle perpendicular to the arm
Anconeus	Halfway between olecranon and medial
C7(C8)	epicondyle
Middle and lower trunc	
Posterior cord	
Radial nerve	
Brachialis	3 fingerbreadths proximal to the insertion of the
C5C6	biceps tendon on the tuberositas radii lateral to
Upper trunc	the biceps brachii
Lateral and posterior cord	
Musculocutaneus and radial	- C   111   11   12   13   13   13   13   1
Coracobrachialis	Four fingerbreadths distal to coracoid process off
C5C6	anterior axillary fold
Upper trunc	
Lateral cord	
musculocutaneous	

UPPER LIMB MUSCLES	ANATOMICAL LOCALISATION
Biceps brachii	Bulk of muscle in anterior mid arm, angle the
C5C6	needle proximally
Upper trunc	needle proximally
Lateral cord	
musculocutaneus	
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Brachioradialis	1 fingerbreadth lateral to biceps tendon and 2
(C5)C6	fingerbreadths distal to elbow crease
Upper trunc	
Posterior cord	
Radial nerve	
Extensor carpi radalis longus	4 fingerbreadths distal along the joining
(C5)C6(C7)	midpoint between lateral epicondyle and biceps
Upper and medial trunc	brachii tendon to the radial styloid at the wrist
Posterior cord	(forearm semipronated)
Radial nerve	