Interscalene

- Brachial Plexus - Nerve Roots
- Shoulder and proximal upper extremity innervation
- Landmarks
  - Middle of clavicle - find subclavian artery
  - Identify superior division, and trace cephalad to approximately Cricoid cartilage (C6).
  - Ideal image is “stop light” with nerve roots of C5, C6, and C7
- Superficial Cervical Plexus
  - Covers medial clavicle and neck which can be missed with an interscalene.

Superficial Cervical Plexus

- Covers medial clavicle and neck which can be missed with an interscalene.

Upper Extremity

Interscalene, Supraclavicular, Infraclavicular, Axillary
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Place probe in middle of clavicle. Scan lateral and medial until you see the subclavian artery.

The brachial plexus can have many variations:
- Long tail laterally
- Horseshoe over artery to medial side
- Condensed at artery

Supraclavicular

- Brachial plexus - Divisions
- Elbow, forearm, hand surgery
- Place probe in middle of clavicle. Scan lateral and medial until you see the subclavian artery.
- The brachial plexus can have many variations
  - Long tail laterally
  - Horseshoe over artery to medial side
  - Condensed at artery
Infraclavicular

- Brachial Plexus - Cords
- Elbow, forearm, hand surgery
- Patient supine with arm extended, head turned toward contralateral side
- Probe immediately caudal to lateral clavicle oriented with the transducer angled in groove between acromion and clavicle
  - This probe positioning allows the cords to be lateral to the axillary artery to help avoid arterial puncture
  - Pressure on the probe may be necessary with a steep needle angle
Axillary

- Brachial Plexus - Terminal Nerves
- Elbow, forearm, hand surgery
- Positioning
  - Patient supine, head turned towards contralateral side.
  - Shoulder abducted with arm level with shoulder, arm flexed 90° at elbow.
- Musculocutaneous nerve migrates away from median nerve (often it can be traced back to the median nerve). Lives in between biceps and coracobrachialis muscle.
- High variation between individuals where nerves are located around the axillary artery.

Axillary Block

[Diagram of Axillary Block]