

Upper Extremity Arterial Doppler:

- Prep: None
- Basic Principles: Use appropriate linear transducer depending on patient body habitus. Evaluate the arterial system in grayscale, color and pulsed wave Doppler. Keep patients extremities comfortably warm. Obtain blood pressure in each arm.
- An evaluation of the following arterial segments should be performed as indicated below. At a minimum an angle corrected spectral Doppler waveform with peak velocity measurements should be obtained from the following sites:
 - Subclavian artery (supra and infraclavicular portions)
 - Axillary artery
 - Brachial artery
 - Radial artery
 - Ulnar artery
- Document waveforms as triphasic, biphasic or monophasic and note any spectral broadening.
- Document location, extent and characteristics of any atherosclerotic plaque.
- Record peak systolic velocities using an angle of 60 degrees or less.
- If significant stenosis is suspected or identified, document waveforms proximal to, at and distal to the lesion.
- Document any aneurysms, A-V fistulas or abnormal fluid collections.
 - When evaluating a bypass graft an attempt should be made to sample the full length of any bypass graft with Doppler, including graft inflow and outflow.