

Ultrasound UPPER ARTERIAL DOPPLER

Patient Position	Supine with arm in various positions
Indications	Evaluation of the upper extremity arteries to assess for plaque morphology, location, and severity. Pre-procedural assessment for planning of intervention. Follow-up of bypass grafts. Evaluation of aneurysm, pseudoaneurysm and arterial-venous fistula. Evaluation of arterial trauma.
Contraindications	Presence of casts or bandages
Procedure	Spectral Doppler waveforms and velocity measurements must be documented from the below vessels. Document if vessel was visualized, patent, if the waveform is triphasic, biphasic, or monophasic, and document the presence of a focal stenotic lesion. PSV/EDV are needed at each level. ***If stenosis is detected, obtain velocities proximal to, at, and distal to stenosis.***
	- Document axial & sagittal presence of calcification, plaque, arterial thrombosis, aneurysm, pseudoaneurysm or lesions.
	- ALL PSV measurements on spectral tracings must be obtained using an angle > 60 degrees. If following up on a stenosis, use the same angle that was used previously. Remember to angle with the jet and not the vessel wall.
	-The entire arterial system must be evaluated and images of the following are required. Additional images of pathology as needed.
	A. Subclavian Artery (medial & lateral)
	B. Axillary Artery
	C. Brachial Artery (prox, mid, distal)
	D. Radial Artery
	D. Ulnar Artery
	Document the presence of an AV Fistula or graft or any other surgeries involving the affected arm/neck.
	Variations in technique during the assessment of peripheral vascular interventions (stents) must be documented in tech comments.