

ULTRASOUND PROTOCOLS



Reviewed: 1/10/2025; 01/11/2024; 01/12/23; 01/29/22; 10/30/20

Carotid Ultrasound Protocol Guideline

Indication	Bruit, stenosis, TIA, CVA, syncope, lack of coordination
Prep	Patient supine
Procedure	<p>Grayscale – Longitudinal and Transverse</p> <ul style="list-style-type: none">• CCA Prox, Mid, and Distal• Carotid bulb• ECA• ICA <p>Color Doppler – Longitudinal</p> <ul style="list-style-type: none">• CCA Prox, Mid, and Distal• Carotid bulb• ECA• ICA• Vertebral <p>Color Spectral Doppler – Longitudinal</p> <ul style="list-style-type: none">• CCA Prox, Mid, and Distal – Enter the Distal CCA into the ratio• ICA Prox, Mid, and Distal – Enter the highest PSV and EDV into the ratio• ECA• Vertebral <p>Note: All PSV measurements on spectral tracings must be obtained using an angle < 60°. 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.</p> <p>Additional Images:</p> <ul style="list-style-type: none">• If a stenosis is detected, obtain velocities proximal to, at, and distal to stenosis. ***• If vertebral waveforms indicate vertebral steal, take additional images of the subclavian artery looking for a stenosis.