

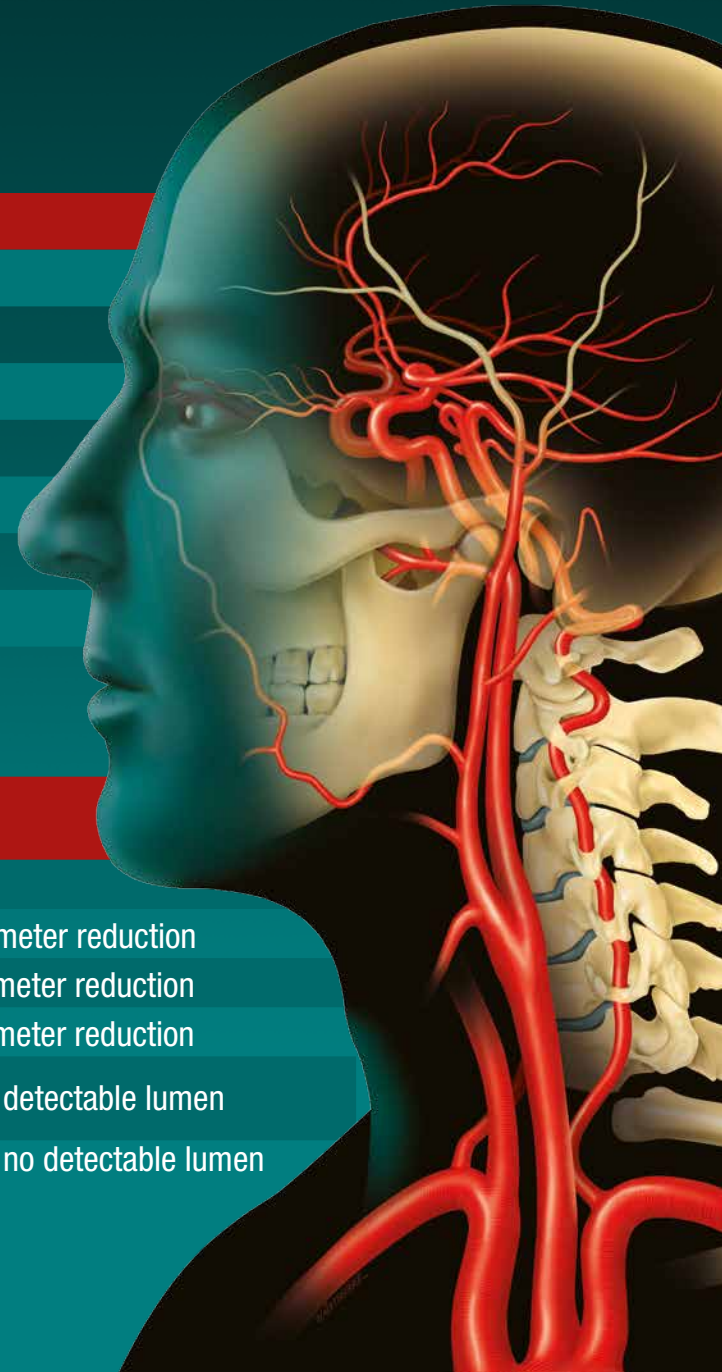
Doppler Sonography

Transcranial Normal Adult Values

Vessel	Window	Depth	Mean Velocity	
Arteria Cerebri Media (MCA)	Temporal window	30-60 mm	55 +/- 12 cm/sec	←
Arteria Cerebri Anterior (ACA)	Temporal window	60-80 mm	50 +/- 11 cm/sec	→
Arteria Cerebri Posterior (PCA)	Temporal window	60-70 mm	39 +/- 10 cm/sec	←
		60-70 mm	40 +/- 10 cm/sec	→
Arteria Basilaris (BA)	Occipital window	80-120 mm	41 +/- 10 cm/sec	→
Arteria Vertebralis (VA)	Occipital window	60-90 mm	38 +/- 10 cm/sec	→
Arteria Ophthalmica (OA)	Orbital window	40-60 mm	21 +/- 5 cm/sec	←

Ultrasound Consensus Criteria for Carotid Stenosis

Stenosis Range	ICA PSV	ICA/CCA PSV Ratio	ICA EDV	Plaque
Normal	< 125 cm/s	< 2.0	< 40 cm/s	None
< 50 %	< 125 cm/s	< 2.0	< 40 cm/s	> 50 % diameter reduction
50 % - 69 %	125 - 230 cm/s	2.0 - 4.0	40 - 100 cm/s	≥ 50 % diameter reduction
70 % - near occlusion	> 230 cm/s	> 4.0	> 100 cm/s	≥ 50 % diameter reduction
Near occlusion	May be low or undetectable	Variable	Variable	Significant, detectable lumen
Occlusion	Undetectable	N/A	N/A	Significant, no detectable lumen



Transcranial Doppler Sonography

Circle of Willis & Acoustic Windows

