

# CAROTID DOPPLER ULTRASOUND

Name: .....

Sonographer: .....

Relevant clinical history: .....

Right	PSV (cm/s)	EDV (cm/s)	Spectral Broadening	Plaque Morphology
CCA Prox				
CCA Distal				
ICA Prox				
ICA Distal				
ECA				
Vertebral				

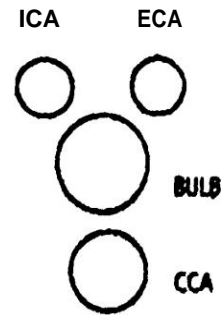
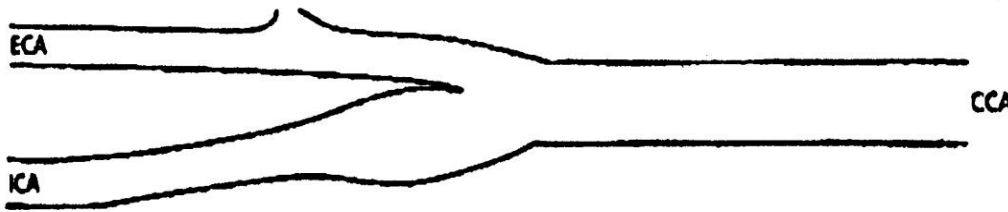
PSV ICA / Distal CCA Ratio : .....

B-mode diameter reduction Prox ICA..... %

IMT at distal CCA: ..... mm (normal <0.8mm)

Comments: .....

Antegrade flow in vertebral: Yes / No



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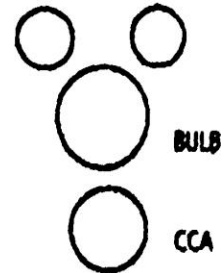
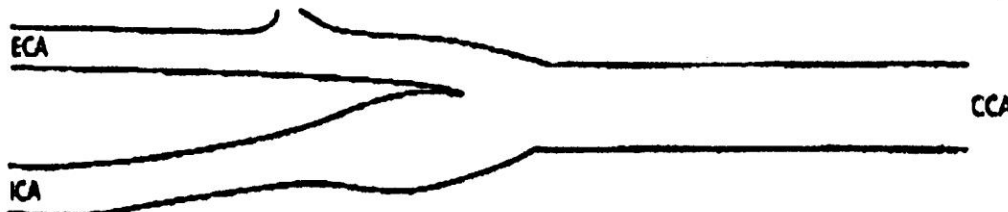
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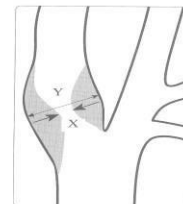
Antegrade flow in vertebral: Yes / No



Plaque Morphology: Echogenic, Hypoechoic, Mixed, Calcified, Indeterminate

Doppler Criteria for ICA Disease (ASUM 1998)

Stenosis Grading	ICA Waveform Criteria	Clinical Findings
Normal	<ul style="list-style-type: none"> <li>no visible plaque, normal spectrum/colour stream</li> <li>PSV &lt; 125cm/s, ICA/CCA &lt; 1</li> </ul>	Normal
1- 15% diam red	<ul style="list-style-type: none"> <li>intimal thickening / minor plaque, normal spect/colour stream</li> <li>PSV &lt; 125cm/s, ICA/CCA &lt; 1.3</li> </ul>	Minimal disease
16 - 49 % diam red	<ul style="list-style-type: none"> <li>plaque seen, some spectral broadening</li> <li>PSV &lt; 125cm/s ICA/CCA &lt; 2</li> </ul>	Moderate disease No haemodynamic significance
50 - 69 % diam red	<ul style="list-style-type: none"> <li>prominent plaque, colour flow disturbance, spectral broadening</li> <li>PSV &gt; 125cm/s EDV &lt; 110cm/s or ICA/CCA &gt; 2</li> </ul>	Prominent Disease Haemodynamically significant
70 -79 % diam red	<ul style="list-style-type: none"> <li>plaque filling most of ICA, marked spectral broadening</li> <li>PSV &gt; 270cm/s EDV &gt; 110cm/s ICA/CCA &gt; 3</li> </ul>	Severe Disease Haemodynamically significant
80 - 99 % diam red	<ul style="list-style-type: none"> <li>severe red of ICA lumen, marked spect broad, aliasing</li> <li>PSV &gt; 270cm/s EDV &gt; 140cm/s ICA/CCA &gt; 4</li> </ul>	Severe Disease / Critical stenosis Haemodynamically significant
100%	<ul style="list-style-type: none"> <li>no flow / no colour stream, no spectral info, terminal thump</li> </ul>	Occluded



ECST Diameter reduction method