



Reason Stroke
Outcome Stenosis moderate, Occlusion

Right	Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Dense Mixed Disease length from BIF		0.96	0.35	< 40%
Bifurcation Plaque Dense Calcified Disease length from BIF				40% - 49%
Internal Plaque Dense Calcified Disease length from BIF		2.23	1.02	60% - 69%
		Pk ICA/Pk CCA = 2.3	Pk ICA/End CCA = 6.4	
External Plaque Normal Disease length from BIF		1.26		< 25%
Vertebral				
Subclavian	No Turbulence	Good signal	Triphasic	Widely Patent

Left	Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Mixed Disease length from BIF		0.60		< 40%
Bifurcation Plaque Mixed Disease length from BIF				40% - 49%
Internal Plaque Mixed Disease length from BIF				= 100%
		Pk ICA/Pk CCA = 0.0		
External Plaque Intimal Thickening Disease length from BIF		1.83		< 30%
Vertebral	Open Orthograde			
Subclavian	No Turbulence	Good signal	Triphasic	Widely Patent

Stenosis based on NASCET velocity criteria.

Joint recommendations for reporting carotid ultrasound investigations in the United Kingdom'. Oates et al. Eur J Vasc Endovasc Surg. 2009 Mar;37(3):251-61

Notes

CAROTID DUPLEX SCAN:

Dense and calcified plaques identified in the right internal carotid artery. The proximal ICA is obscured for 0.6cm by calcium shadowing. Turbulent flow and raised velocities noted distal to the obscured region suggestive of a 60-69% stenosis based on velocities in these region, however cannot rule out a greater stenosis. Total disease measures 1.4cm including the bifurcation. Distal ICA is patent.

Low volume flow noted at the origin of the left internal carotid artery. Vessel appears to occlude soon after, with no colour, spectral or power Doppler signal obtained within the vessel lumen.

Assessed by Sharifa Kiyegga

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Checked by



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Additional comment:
Antegrade flow identified in the right and left vertebral arteries.

SUGGEST VASCULAR SURGICAL OPINION IF APPROPRIATE.