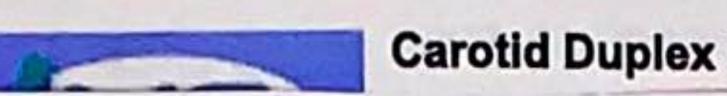
16/05/2022 10:01



Reason St	roke				
Outcome St	enosis moderate, Obscured	, Calcified, Poor imag	es		
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common			1.07	0.15	< 30%
Plaque Disease length from BIF	Intimal Thickening				
Bifurcation					< 50%
Plaque Disease length from BIF	Dense Mixed Calcified				
Internal			0.99	0.27	< 40%
Plaque	Dense Mixed				
Disease length from BIF		Pk ICA/	Pk CCA = 0.9	Pk ICA/End CCA	= 6.6
External			2.57		< 40%
Plaque	Dense Mixed				
Disease length from BIF					
Vertebral	Open Orthograde				
Subclavian	No Turbulence	Go	od Signal Triph	nasic	Widely Patent
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common			0.70	0.15	< 40%
Plaque	Dense Mixed				
Disease length from BIF					
Bifurcation					< 50%
Plaque	Dense Mixed Calcified				
Disease length from BIF					
Internal			1.98	0.48	60% - 69%
Plaque	Dense Mixed Calcified				
Disease length from BIF		Pk ICA/	Pk CCA = 2.8	Pk ICA/End CCA	= 13.2
External			1.84		< 40%
Plaque	Dense Mixed Calcified				
Disease length from BIF					
Vertebral	Open Orthograde				

Stenosis based on NASCET methods.

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Mixed, dense and calcified plaque identified in the right ICA forming a less than 40% stenosis. LEFT

The left proximal ICA was obscured for ~0.84cm due to acoustic shadowing. Velocities obtained distal to obscured region suggest moderate 60-69% stenosis, however unable to accurately grade or rule out greater stenosis. Total disease length ~1.2cm distal to bifurcation. Distal ICA is patent.

Suggest vascular surgical opinion, if appropriate.

David Barrett Assessed by Printed on 06/08/2022 at 3:01 pm

Carotid Duplex Examined 16/05/2022 10:01 Page 2 of 2

Suggest alternate imaging.

Assessed by David Barrett
Printed on 06/08/2022 at 3:01 pm



Reason Strol Outcome Sten	ke osis moderate, Obscured	, Calcified, Poor image	es			
Right		Diameter (cm)	PSV (m/s) ,	EDV (m/s)	Stenosi
Common			0.8	9	0.14	< 30%
Plaque Disease length from BIF	Intimal Thickening			,		
Bifurcation						< 40%
Plaque Disease length from BIF	Dense Mixed Calcified					
Internal			0.8	4	0.27	< 30%
Plaque Disease length from BIF	Intimal Thickening	Pk ICA/I	Pk CCA = 0.9		Pk ICA/End CCA	= 6.0
External						< 30%
Plaque Disease length from BIF	Intimal Thickening		1.2			\ 30 %
Vertebral	Not Identified					
Subclavian	No Turbulence	Goo	d Signal	Triphasio		Widely Patent
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from BIF	Intimal Thickening		0.97	7	0.15	< 30%
Bifurcation Plaque Disease length from BIF	Dense Mixed Calcified					40% - 49%
Internal			1.70		0.44	50% - 59%
Plaque Disease length from BIF	Dense Mixed Calcified	Pk ICA/F	k CCA = 1.8		Pk ICA/End CCA	
External			1.32	,		< 40%
Plaque Disease length from BIF	Dense Mixed Calcified		1.5			40-70
Vertebral	Not Identified					
Subclavian	No Turbulence	Good	d Signal	Biphasic		Widely Patent

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Intimal thickening identified in the right ICA forming a less than 30% reduction in luminal diameter.

LEFT

The origin of the left ICA was obscured for ~1.1cm due to acoustic shadowing. Velocities obtained distal are suggestive of a moderate 50-59% stenosis, however unable to accurately grade or rule out greater stenosis in obscured region. Where seen, mixed, dense and calcified plaque identified forming a less than 50% stenosis.

Assessed by	David Barrett
Printed on 06/08/2022	at 2:59 nm

Suggest vascular surgical opinion, if appropriate. Suggest alternate imaging.

Assessed by David Barrett
Printed on 06/08/2022 at 2:59 pm

Examined



Reason	TIA clinic					
Outcome	Stenosis moderate, Calcified	ed *				
Right		Diameter (cm) PSV (m/s)	EDV (m/s) Stenos			
Common		1.19	0.24 < 309			
Plaque Disease length from	Mixed BIF					
Bifurcation			50% - 599			
Plaque	Dense Mixed Calcified					
Disease length from	BIF					
Internal		1.66	0.29 50% - 599			
Plaque	. Dense Mixed Calcified					
Disease length from	BIF	Pk ICA/Pk CCA = 1.4	Pk ICA/End CCA = 6.9			
External		2.70	< 409			
Plaque	Dense Mixed ,					
Disease length from	BIF					
Vertebral	Open Orthograde					
Subclavian	No Turbulence	Good Signal	Triphasic Widely Patent			
Left		Diameter (cm) PSV (m/s)	EDV (m/s) Stenosi			
Common		1.28	0.24 < 30%			
Plaque	Mixed					
Disease length from	BIF					
Bifurcation			< 40%			
Plaque	Dense Mixed Calcified					
Disease length from	BIF					
Internal		1.04	0.21 < 40%			
Plaque	Dense Mixed Calcified					
Disease length from	BIF	Pk ICA/Pk CCA = 0.8	Pk ICA/End CCA = 4.3			
External		1.80	< 30%			
Plaque	Mixed					
Disease length from	BIF					
Vertebral	Open Orthograde					
Subclavian	` No Turbulence	Good Signal	Biphasic Widely Patent			

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Mixed, dense and calcified plaque identified in the right carotid bifurcation forming a 50-59% stenosis based on greyscale and colour flow imaging. Disease extends into the right ICA forming a 50-59% stenosis at the origin. Total disease length ~1cm including bifurcation. Distal ICA is patent.

LEFT

Mixed, dense and calcified plaque identified in the left ICA forming a less than 40% stenosis.

Suggest vascular surgical opinion, if appropriate.

David Barrett Assessed by Printed on 06/08/2022 at 2:40 pm

Reason	Stroke						
Outcome	Stenosis mild, Stenosis moderate, Calcified						
Right		Diameter (cm)	PSV (m/s	EDV (m/s) Stenosi		
Common Plaque Disease length from Bi	Mixed		0.50	0.1	2 < 40%		
Bifurcation Plaque Disease length from Bi	Dense Mixed				50% - 59%		
Internal Plaque Disease length from Bi	Mixed	DI- 70	1.78				
External Plaque Disease length from B	Mixed		A/Pk CCA = 3.6 3.53		50% - 59%		
Vertebral Subclavian	Open Orthograde No Turbulence	G	ood Signal	Biphasic	Widely Patent		
Left		Diameter (cm)	PSV (m/s)	EDV (m/s) Stenosis		
Common Plaque Disease length from Bi	Mixed		0.68	0.1	7 < 40%		
Bifurcation Plaque Disease length from Bi	Dense Mixed				< 40%		
Internal Plaque	Dense Mixed Calcified		0.70				
Disease length from Bi External Plaque Disease length from Bi	Intimal Thickening	Pk IC.	A/Pk CCA = 1.0 1.54		d CCA = 4.1 < 30%		
Vertebral	Open Orthograde						
Subclavian	No Turbulence		ood Signal	Biphasic	Widely Patent		

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Mixed and dense plaque identified in the right carotid bifurcation forming a 50-59% stenosis based on greyscale, colour flow imaging, and direct luminal diameter reduction measurements. Disease extends in the right proximal ICA forming a 40-49% stenosis. Distal ICA is patent.

Mixed plaque identified at the origin of the right ECA forming a 50-59% stenosis.

LEFT

Mixed, dense and calcified plaque identified in the left ICA forming a less than 50% stenosis.

Assessed by	David Barrett

Printed on 06/08/2022 at 2:53 pm

Deference

Examined

Suggest vascular surgical opinion, if appropriate.

Assessed by David Barrett
Printed on 06/08/2022 at 2:53 pm

Checked by

Reason	TIA clinic							
Outcome	Stenosis moderate, Intimal hyperplasia							
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosi			
Common Plaque Disease length from B	Mixed		0.42	0.11	< 30%			
Bifurcation Plaque Disease length from B	Mixed Soft				40% - 49%			
Internal Plaque	Mixed Soft		0.63	0.22	50% - 59%			
Disease length from B	IF	Pk ICA/Pk CCA = 1.5 Pk ICA/End CCA = 5.7						
Plaque Disease length from B	Mixed		0.73		< 30%			
Vertebral	Open Orthograde							
Subclavian	No Turbulence		Good Signal	Biphasic	Widely Patent			
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis			
Common Plaque Disease length from B	Mixed		0.57	0.17	< 30%			
Bifurcation Plaque Disease length from B	Intimal Hyperplasia				< 40%			
Internal Plaque Disease length from B	Intimal Hyperplasia	DI: TO	0.45 A/Pk CCA = 0.8	0.14 Pk ICA/End C	< 40%			
Plaque Disease length from B	Mixed		0.94		< 30%			
Vertebral	Open Orthograde							
			Good Signal	Triphasic				

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

*Prev L CEA.

RIGHT

Mixed and echolucent ?soft plaque identified in the right ICA forming a 50-59% stenosis based on greyscale, colour flow imaging and direct luminal diameter reduction measurements. However, no raised velocities noted ?due to soft smooth plaque. Total disease length ~1.4cm including bifurcation. Distal ICA is patent. LEFT

Intimal hyperplasia identified in the left ICA forming a less than 40% stenosis.

Assessed by

David Barrett

Printed on 06/08/2022 at 2:50 pm

Suggest vascular surgical opinion, if appropriate.

Assessed by David Barrett
Printed on 06/08/2022 at 2:50 pm



Reason	Routine				
Outcome	Stenosis severe, Calcified				
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from E	Mixed		1.17	0.25	< 30%
Bifurcation Plaque Disease length from E	Dense Mixed				< 30%
Internal Plaque Disease length from E	Mixed	Pk ICA	1.00 /Pk CCA = 0.9	0.25 Pk ICA/End CCA =	< 30%
External Plaque Disease length from E	Mixed		1.91		< 30%
Vertebral	Open Orthograde				
Subclavian	No Turbulence	Go	ood Signal Trip	hasic	Widely Patent
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from E	Mixed		1.00	0.11	< 40%
Bifurcation Plaque Disease length from E	Dense Mixed Calcified				< 50%
Internal Plaque Disease length from E	Dense Mixed Soft Calci		0.19 /Pk CCA = 0.2	Pk ICA/End CCA =	96% - 99%
External Plaque Disease length from E	Mixed		1.27		< 30%
Vertebral	Open Orthograde				
Subclavian	No Turbulence	G	ood Signal Trip	hasic	Widely Patent

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Mixed plaque identified in the right ICA forming a less than 30% stenosis.

LEFT

Mixed, dense, calcified and echolucent ?soft plaque identified in the left ICA forming a 96-99% stenosis along its length with low flow PSV 19cm/s ?trickle flow identified. Trickle flow extends into the distal ICA.

Assessed by

David Barrett

Printed on 06/08/2022 at 2:49 pm

Reason S	roke				
Outcome S	enosis severe, Occlusion, Ob	scured, Calcified,	Poor images, Sul	oclavian Steal	
Right		Diameter (cm)	PSV (m/s	EDV (I	n/s) Stenosi
Common			0.67		< 50%
Plaque	Dense Mixed				
Disease length from BIF					
Bifurcation					50% - 59%
Plaque	Dense Mixed Calcified				
Disease length from BIF					
Internal					= 100%
Plaque	Dense Mixed Calcified				- 100 %
Disease length from BIF		Pk I	CA/Pk CCA = 0.0		
External					2004
Plaque	National desired		1.09		< 30%
Disease length from BIF	Mixed				
Vertebral	Open Oscillatory				
Subclavian	Moderate Turbulence		Good Signal	Triphasic	4ild/Moderate Stenosis
Left		Diameter (cm)	PSV (m/s)	EDV (n	n/s) Stenosis
Common			0.00		< 40%
Plaque	Dense Mixed		0.09		~ 40 70
Disease length from BIF					
Bifurcation	Dance Missed Calaified				< 0%
Plaque Disease length from BII	Dense Mixed Calcified but is obscur	hor			
	but is obscur	eu .			
Internal			0.41	. *	< 0%
Company of the Compan	Dense Mixed Calcified		na (n), nea _ a c		
Plaque	but to about	ed PK IS	CA/Pk CCA = 4.6		
Plaque Disease length from BII	but is obscur				
Disease length from BII	but is obscur		0.32		< 0%
Disease length from BIF External Plaque	Mixed		0.32		< 0%
Disease length from BII	Mixed		0.32		< 0%
Disease length from BIF External Plaque	Mixed		0.32		< 0%

If marked * ALWAYS read full notes.

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

- *Previous known right ICA occlusion on CT and duplex ultrasound (June 2021)
- *Previous ~70-79% stenosis of left ICA on CT and duplex ultrasound (June 2021).

RIGHT

The right internal carotid artery appears chronically occluded with no colour, spectral or power Doppler signal obtained within the vessel lumen.

Turbulent waveforms noted proximal right subclavian artery, with oscillatory vertebral artery flow noted, indicative of right partial subclavian steal syndrome.

Assessed by

David Barrett

Printed on 06/08/2022 at 2:48 pm



Mixed, dense and calcified plaque identified in the right carotid bifurcation forming a 50-59% stenosis based on greyscale and colour flow imaging.

LEFT

*Very challenging assessment of left carotid system due to heavy calcification and acoustic shadowing. Very low/absent damped flow noted in proximal and distal common carotid artery (PSV 9cm/s), ?due to severe proximal stenosis ?increase in proximal stenosis severity since previous assessment (June 2021) due to decrease/absence of flow observed in CCA.

Severely turbulent flow noted in left proximal subclavian artery (PSV 404cm/s) and vertebral artery (PSV 263cm/s) ?severe proximal stenosis.

The left carotid bifurcation, ICA and ECA origins were obscured for ~1.02cm due to acoustic shadowing unable to accurately grade.

Where seen, flow in the mid ICA appears damped and slightly oscillatory PSV 41cm/s, ?oscillatory due to severe proximal stenosis.

Retrograde and low resistant flow noted in ECA ?high grade proximal stenosis/occlusion of proximal ECA.

SUGGEST ALTERNATE IMAGING. SUGGEST VASCULAR SURGICAL OPINION.



Reason	Stroke				*
Outcome	Stenosis mild, Calcified, disea	se - mild			
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosi
Common			0.86		< 40%
Plaque Disease length from B	Mixed				
Bifurcation					< 50%
Plaque Disease length from B	Dense Mixed Calcified				
Internal			1.00	0.19	< 50%
Plaque	Dense Mixed Calcified				
Disease length from B	IF	Pk ICA	/Pk CCA = 1.2		
External			1.07		< 30%
Plaque Disease length from B	Mixed IF				
Vertebral	Open Orthograde				
Subclavian	No Turbulence	. Go	od Signal Trip	hasic	Widely Patent
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common			0.71	0.10	< 30%
Plaque Disease length from B	Mixed				
Bifurcation					< 50%
Plaque Disease length from B	Dense Mixed Calcified IF				
Internal			1.08	0.17	40% - 49%
Plaque	Dense Mixed Calcifled				
Disease length from B	IF	Pk ICA	/Pk CCA = 1.5	Pk ICA/End CCA	= 10.8
External Plaque	Mixed		1.32		< 30%
Disease length from B	1F				
Vertebral	Open Orthograde				
Subclavian	No Turbulence	Go	od Signal Biph	nasic	Widely Patent

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Mixed, dense and calcified plaque identified in the right ICA forming a less than 50% stenosis.

LEFT

Mixed, dense and calcified plaque identified in the left ICA forming a 40-49% stenosis.

Assessed by

David Barrett

Printed on 06/08/2022 at 2:47 pm

Reason	Routine				
Outcome	Stenosis moderate, Obscured	, Calcified			
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from B	Dense Mixed Calcified		0.66	0.10	< 50%
Bifurcation Plaque Disease length from B	Dense Mixed Calcified				< 50%
Internal Plaque Disease length from B	Dense Mixed Calcified	Pk ICA	1.43 /Pk CCA = 2.2	0.43 Pk ICA/End CCA	50% - 59% = 14.3
External Plaque Disease length from B	Dense Mixed Calcified		3.12		50% - 59%
Vertebral	Open Orthograde				
Subclavian	No Turbulence	Go	od Signal Trip	hasic	Widely Patent
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from E	Dense Mixed Calcified		0.93	0.18	< 40%
Bifurcation Plaque Disease length from B	Dense Mixed Calcified				< 50%
Internal Plaque Disease length from B	Dense Mixed Calcified	Pk ICA	0.66 /Pk CCA = 0.7	0.19 Pk ICA/End CCA	< 50% = 3.7
External Plaque Disease length from B	Dense Mixed Calcified		1.04		< 50%
Vertebral	Open Orthograde				
Subclavian	No Turbulence	G	od Signal Biph	nasic	Widely Patent

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

The right proximal ICA was obscured for ~1.3cm due to acoustic shadowing. Velocities distal to obscured region are suggestive of a moderate 50-59% stenosis, however unable to rule out greater stenosis in obscured region. Disease length ~2cm including bifurcation. Distal ICA is patent. Where seen, mixed, dense and calcified plaque identified in the right ICA forming a less than 50% stenosis.

LEFT .

Mixed, dense and calcified plaque identified in the left ICA forming a less than 50% stenosis.

Assessed by	David Barrett
Printed on 06/08/20	22 at 2:46 pm

Reason	Routine			
Outcome	Stenosis mild, Calcified			
Right		Diameter (cm) PSV (m	/s) EDV (m/s)	Stenosi
Common		0	.62 0.07	< 40%
Plaque Disease length from I	Dense Mixed Calcified			
Bifurcation				40% - 49%
Plaque Disease length from	Dense Mixed Calcified			
Internal		1	.03 0.23	40% - 49%
Plaque Disease length from	Dense Mixed Calcified	Pk ICA/Pk CCA = 1.7	Pk ICA/End CC	A = 14.7
External		1	.59	. < 50%
Plaque Disease length from	Dense Mixed Calcifled			
Vertebral	Open Orthograde			
Subclavian	No Turbulence	Good Signal	Triphasic	Widely Patent
Left		Diameter (cm) PSV (m.	/s) EDV (m/s)	Stenosis
Common		0	.97 0.09	< 40%
Plaque Disease length from	Dense Mixed Calcified BIF			
Bifurcation				< 50%
Plaque Disease length from	Dense Mixed Calcified BIF			
Internal		0	.77 0.21	< 50%
Plaque Disease length from	Dense Mixed Calcified BIF	Pk ICA/Pk CCA = 0.8	Pk ICA/End CCA	A = 8.6
External		1	.27	< 40%
Plaque Disease length from	Dense Mixed Calcified BIF			
Vertebral	Open Orthograde			
		Good Signal	Biphasic	Widely Patent

Carotid Duplex

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Mixed, dense and calcified plaque identified in the right carotid bifurcation and ICA forming a 40-49% stenosis.

LEFT

Mixed, dense and calcified plaque identified in the left ICA forming a less than 50% stenosis.

David Barrett Assessed by Printed on 06/08/2022 at 2:45 pm



Reason - TIA	clinic				
Outcome Ste	nosis moderate, Calcified				
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosia
Common			0.91	0.15	< 40%
Plaque Disease length from BIF	Dense Mixed				
Bifurcation					50% - 59%
Plaque Disease length from BIF	Dense Mixed Calcified				
Internal			1.40	0.38	50% - 59%
Plaque	Dense Mixed Calcified				
Disease length from BIF		Pk ICA	A/Pk CCA = 1.5	Pk ICA/End CCA	= 9.3
External			1.83		< 40%
Plaque Disease length from BIF	Dense Mixed				
Vertebral	Open Orthograde				
Subclavian	No Turbulence	G	ood Signal Trip	ohasic	Widely Patent
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common			0.78	0.15	< 40%
Plaque	Dense Mixed				
Disease length from BIF					
Bifurcation		1			< 40%
Plaque	Dense Mixed				*
Disease length from BIF					
Internal			1.04	0.26	< 30%
Plaque	Mixed				
Disease length from BIF		Pk ICA	V/Pk CCA = 1.3	Pk ICA/End CCA	= 6.9
External			1.73		< 40%
Plaque	Dense Mixed				
Disease length from BIF					
Vertebral	Open Orthograde				
Subclavian	No Turbulence	G	ood Signal Trip	hasic	Widely Patent

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Mixed, dense and calcified plaque identified in the right carotid bifurcation forming a 50-59% stenosis. Disease extends into proximal ICA forming a 50-59% stenosis at the origin of the ICA, based on greyscale, colour flow imaging, velocities obtained, and direct luminal diameter reduction measurements. Disease length ~1.94cm including bifurcation. Distal ICA is patent.

LEFT

Mixed and dense plaque identified in the left ICA forming a less than 30% stenosis.

Assessed by	David Barrett
Printed on 06/08/202	22 at 2:43 pm

Suggest vascular surgical opinion, if appropriate.

Assessed by David Barrett
Printed on 06/08/2022 at 2:43 pm

Checked by

Reason	ΓIA clinic						
Outcome	Stenosis mild, Stenosis severe, Calcified						
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis		
Common Plaque Disease length from Bi	Dense Mixed		1.21	0.26	< 40%		
Bifurcation Plaque Disease length from B	Dense Mixed Calcified				40% - 49%		
Internal Plaque	Dense Mixed Calcified		0.96	0.33	40% - 49%		
Disease length from B	IF	Pk ICA	/Pk CCA = 0.8	Pk ICA/End CCA	= 3.7		
External Plaque Disease length from B	Mixed		2.06		< 40%		
Vertebral	Open Orthograde						
Subclavian	No Turbulence	Go	od Signal Tr	iphasic	Widely Patent		
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis		
Common Plaque Disease length from B	Dense Mixed		1.12	0.25	< 40%		
Bifurcation Plaque Disease length from B	Dense Mixed Calcified				< 50%		
Internal Plaque	. Dense Mixed		0.90	0.40	< 40%		
Disease length from B		Pk ICA	/Pk CCA = 0.8	Pk ICA/End CCA	= 3.6		
External Plaque Disease length from B	Mixed Soft		4.61		70% - 79%		
Vertebral	Open Orthograde						
Subclavian	No Turbulence	Go	od Signal Tr	iphasic	Widely Patent		

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Mixed, dense and calcified plaque identified in the carotid bifurcation and proximal ICA forming a 40-49% stenosis.

LEFT

Mixed and dense plaque identified in the left ICA forming a less than 40% stenosis.

Additional comments: Mixed and echolucent ?soft plaque identified in the left external carotid artery forming a 70-79% stenosis.

Assessed by	David Barrett
Printed on 06/08/202	22 at 2:41 pm

	op CABG				
Outcome Sten	osis moderate, Obscured	I, Calcified, Poor image	S		
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from BIF	Dense Mixed		0.83	0.18	< 40%
Bifurcation Plaque Disease length from BIF	Dense Mixed Calcified				< 50%
Internal Plaque Disease length from BIF	Dense Mixed Calcified	Pk ICA/F	1.08 ok CCA = 1.3	0.47 Pk ICA/End CCA =	< 50% 6.0
External Plaque Disease length from BIF	Mixed		1.38		< 30%
Vertebral	Open Orthograde				•
Subclavian	No Turbulence	Goo	d Signal Trip	nasic	Widely Patent
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from BIF	Dense Mixed		0.92	0.25	< 40%
Bifurcation Plaque Disease length from BIF	Dense Mixed Calcified				< 50%
Internal			2.62 *	0.88	< 0%
Plaque	Dense Mixed Calcified	PL TCA/E	P CCA = 2 8	Pk TCA/End CCA =	10.5
Plaque Disease length from BIF External Plaque	Dense Mixed Calcified Mixed	Pk ICA/F	k CCA = 2.8 1.68	Pk ICA/End CCA =	
Plaque Disease length from BIF External		Pk ICA/F		Pk ICA/End CCA =	10.5

Stenosis based on NASCET methods. If marked * ALWAYS read full notes.

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

*Challenging assessment due to heavily calcified arteries bilaterally - some poor images obtained. RIGHT

Mixed, dense and calcified plaque identified in the right ICA forming a less than 50% stenosis.

LEFT

The left distal ICA is obscured for ~0.4cm due to acoustic shadowing. Velocities obtained in the distal ICA (~2.2cm distal to bifurcation) are suggestive of a moderate stenosis (60-69%) however very poor views obtained - unable to accurately grade distal region. Mixed, dense and calcified plaque identified in the proximal ICA forming a less than 50% stenosis.

Assessed by	David Barrett		
Printed on 06/08/2022	2 at 2:40 pm		

Suggest alternate imaging to confirm left distal ICA stenosis.

Suggest vascular surgical opinion, if appropriate.



Reason Str	oke		Aller Late		
Outcome Ste	nosis severe, Occlusion, C	Calcified			
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosi
Common Plaque Disease length from BIF	Mixed		0.63	0.12	< 30%
Bifurcation Plaque Disease length from BIF	Dense Mixed Calcified				< 40%
Internal Plaque Disease length from BIF	Dense Mixed Calcified	Pk ICA	A/Pk CCA = 0.0	Pk ICA/End C	= 100% CA = 0.0
External Plaque Disease length from BIF	Mixed		1.78		< 30%
Vertebral	Open Orthograde				
Subclavian	No Turbulence	G	ood Signal	Triphasic	Widely Patent
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from BIF	Dense Mixed		0.85	0.21	< 40%
Bifurcation Plaque Disease length from BIF	Dense Mixed Calcified				< 40%
Internal Plaque	Dense Mixed Calcified		5.65	3.32	90% - 95%
Disease length from BIF		Pk ICA	A/Pk CCA = 6.6	Pk ICA/End C	CA = 26.9
Plaque Disease length from BIF	Mixed		1.17		< 30%
Vertebral	Open Orthograde				
Subclavian	No Turbulence	G	ood Signal	Triphasic	Widely Patent

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

The right internal carotid artery appears occluded with mixed, dense and calcified plaque - no colour, spectral or power Doppler signal obtained within the vessel lumen.

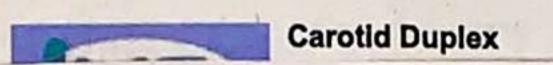
LEFT

Mixed, dense and calcified plaque identified in the left ICA forming a 90-95% stenosis based on greyscale, colour flow imaging, and velocities obtained. Disease length ~1.7cm including bifurcation. Distal ICA is patent.

Assessed by	David Barrett
Printed on 06/08/2022	at 2:38 pm

SUGGEST URGENT VASCULAR SURGICAL OPINION.

Assessed by David Barrett
Printed on 06/08/2022 at 2:38 pm



Reason	TIA clinic				
Outcome	Stenosis moderate, Calcified				
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from B	Intimal Thickening		1.09	0.14	< 30%
Bifurcation Plaque Disease length from B	Dense Mixed Calcified				< 50%
Internal Plaque Disease length from B	Dense Mixed Calcified	DL TCA	1.84 /Pk CCA = 1.7	0.42 Pk ICA/End C	60% - 69% CA = 13.1
External Plaque Disease length from B	Normal		1.53		< 25%
Vertebral Subclavian	Open Orthograde No Turbulence	G	ood Signal	Biphasic	Widely Patent
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from B	Intimal Thickening		1.04	0.12	< 30%
Bifurcation Plaque Disease length from B	Dense Mixed Calcified				< 50%
Internal Plaque Disease length from B	Dense Mixed Calcified	Pk ICA	1.20 A/Pk CCA = 1.2	0.17 Pk ICA/End C	< 50% CA = 10.0
External Plaque Disease length from B	Intimal Thickening		1.53		< 30%
Vertebral	Open Orthograde				
Subclavian	No Turbulence	G	ood Signal	Biphasic	Widely Patent

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Mixed, dense and calcified plaque identified in the right ICA forming a 60-69% stenosis based on greyscale, colour flow imaging, velocities obtained, and direct luminal diameter reduction measurements. Disease length ~1.5cm including bifurcation. Distal ICA is patent.

LEFT

Mixed, dense and calcified plaque identified in the left ICA forming a less than 50% stenosis.

Suggest vascular surgical opinion, if appropriate.

Assessed by

David Barrett

Printed on 06/08/2022 at 2:33 pm

Reason Str	oke				
Outcome Ca	lcified, disease - mild				
Right -		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from BIF	Intimal Thickening		0.51	0.12	< 30%
Bifurcation Plaque Disease length from BIF	Dense Mixed				< 30%
Internal			0.73	0.26	< 40%
Plaque Disease length from BIF	Dense Mixed Calcified	Pk ICA/Pk	CCA = 1.4	Pk ICA/End CCA =	6.1
External Plaque Disease length from BIF	Intimal Thickening		0.65		< 30%
Vertebral	Open Orthograde				
Subclavian	No Turbulence	Good	Signal Triph	asic	Widely Patent
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from BIF	Mixed		0.50	0.13	< 30%
Bifurcation	Mixed				< 30%
Plaque Disease length from BIF					
Disease length from BIF Internal			0.77	0.28	< 30%
Disease length from BIF	Mixed	Pk ICA/Pk	0.77 CCA = 1.5	0.28 Pk ICA/End CCA =	
Disease length from BIF Internal Plaque		Pk ICA/Pk			5.9
Disease length from BIF Internal Plaque Disease length from BIF External Plaque	Mixed	Pk ICA/Pk	CCA = 1.5		< 30% 5.9 < 30%

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Mixed, dense and calcified plaque identified in the right ICA forming a less than 40% stenosis.

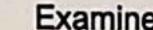
LEFT

Mixed plaque identified in the left ICA forming a less than 30% stenosis.

Assessed by

David Barrett

Printed on 06/08/2022 at 3:06 pm



Reason TI.	A clinic				
Outcome W	idely patent				
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from BIF	Normal		1.37	0.29	< 25%
Bifurcation Plaque Disease length from BIF	Normal				< 25%
Internal Plaque	Normal		1.33	0.32	< 25%
Disease length from BIF External Plaque Disease length from BIF	Normal	Pk ICA	/Pk CCA = 1.0 1.81	Pk ICA/End CCA =	4.6
Vertebral	Open Orthograde				
Subclavian	No Turbulence	Go	od Signal Tr	phasic	Widely Patent
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from BIF	Normal .		1.44	0.22	< 25%
Bifurcation Plaque Disease length from BIF	Normal				< 25%
Internal Plaque Disease length from BIF	Normal	Pk ICA	1.11 /Pk CCA = 0.8	0.29 Pk ICA/End CCA =	< 25% 5.0
External Plaque Disease length from BIF	Normal		1.58		. < 25%
Vertebral	Open Orthograde				
Subclavian	No Turbulence	Go	od Signal Tr	iphasic	Widely Patent

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

The right and left extra-cranial carotid arteries appear widely patent. No evidence of any plaque morphology, intimal dissection or other abnormality identified.

Reason	Routine		
Outcome	Widely patent		
Right		Diameter (cm) PSV (m/s)	EDV (m/s) Steno
Common		1.50	0.38 < 25
Plaque Disease length from B	Normal		
Bifurcation			< 25
Plaque Disease length from B	Normal		
Internal		1.15	0.34 < 25
Plaque	Normal		
Disease length from B	SIF	Pk ICA/Pk CCA = 0.8	Pk ICA/End CCA = 3.0
External		0.94	< 25
Plaque Disease length from B	Normal		
Vertebral	Open Orthograde		
Subclavian	No Turbulence	Good Signal	Triphasic Widely Pate
Left		Diameter (cm) PSV (m/s)	EDV (m/s) Steno
Common		1.53	0.35 < 25
Plaque	Normal		
Disease length from E	BIF		
Bifurcation			< 25
Plaque	Normal		
Disease length from E	BIF		
Internal		1.22	0.38 < 25
Plaque	Normal		
Disease length from E	BIF	Pk ICA/Pk CCA = 0.8	Pk ICA/End CCA = 3.5
External		1.13	< 25
Plaque	Normal		
Disease length from E	BIF		
Vertebral	Open Orthograde		

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

The right and left extra-cranial carotid arteries appear widely patent. No evidence of any plaque morphology, intimal dissection or other abnormality identified.

Reason TI	A clinic				
Outcome Ca	alcified, disease - mild				
Right .		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosi
Common Plaque Disease length from BIF	Intimal Thickening		0.87	0.16	< 30%
Bifurcation Plaque Disease length from BIF	Intimal Thickening				< 30%
Internal Plaque	Intimal Thickening		0.83	0.19	< 30%
Disease length from BIF		Pk ICA	/Pk CCA = 1.0	Pk ICA/End CCA =	5.2
External Plaque Disease length from BIF	Intimal Thickening		2.03		< 30%
Vertebral					
v Ci t CDi di	Open Orthograde				
Subclavian	No Turbulence	No	t Identified Tr	iphasic	Widely Patent
		Diameter (cm)	t Identified Tr	iphasic EDV (m/s)	
Subclavian Left	No Turbulence Intimal Thickening				Stenosis
Subclavian Left Common Plaque Disease length from BIF	No Turbulence Intimal Thickening Dense Mixed		PSV (m/s)	EDV (m/s)	Stenosis < 30%
Subclavian Left Common Plaque Disease length from BIF Bifurcation Plaque	No Turbulence Intimal Thickening Dense Mixed		PSV (m/s)	EDV (m/s)	Stenosis < 30%
Left Common Plaque Disease length from BIF Bifurcation Plaque Disease length from BIF Internal	Intimal Thickening Dense Mixed Dense Mixed Calcified	Diameter (cm)	PSV (m/s) 1.04	EDV (m/s) 0.23	Stenosis < 30% < 50%
Left Common Plaque Disease length from BIF Bifurcation Plaque Disease length from BIF Internal Plaque	Intimal Thickening Dense Mixed Dense Mixed Calcified Intimal Thickening	Diameter (cm)	PSV (m/s) 1.04	EDV (m/s) 0.23	Stenosis < 30% < 50% 4.2
Left Common Plaque Disease length from BIF Bifurcation Plaque Disease length from BIF Internal Plaque Disease length from BIF External Plaque	Intimal Thickening Dense Mixed Dense Mixed Calcified Intimal Thickening	Diameter (cm)	PSV (m/s) 1.04 /Pk CCA = 0.9	EDV (m/s) 0.23	Widely Patent Stenosis < 30% < 50% 4.2 < 30%

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Intimal thickening identified in the right ICA forming a less than 30% reduction in luminal diameter.

LEFT

Mixed, dense and calcified plaque identified in the left ICA forming a less than 50% stenosis.

Assessed by	David Barrett
Printed on 06/08/202	2 at 3:06 nm



Reason	TIA clinic				
Outcome	disease - mild				
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosi
Common			1.06	0.28	< 40%
Plaque	Mixed				
Disease length from BI					
Bifurcation					< 40%
Plaque	Dense Mixed				
Disease length from BI	IF .				
Internal			0.94	0.30	< 40%
Plaque	Mixed				
Disease length from BI	IF	Pk ICA/Pk	CCA = 0.9	Pk ICA/End CCA =	3.4
External			0.99		< 30%
Plaque	Mixed				
Disease length from BI	IF.				
Vertebral	Open Orthograde				
Actreptat	Open Grandy and				
Subclavian	No Turbulence	Good	Signal Triph	nasic	Widely Patent
		Good Diameter (cm)	Signal Triph PSV (m/s)	enasic EDV (m/s)	Widely Patent Stenosis
Subclavian Left					
Subclavian Left Common			PSV (m/s)	EDV (m/s)	Stenosis
Subclavian Left	No Turbulence Mixed		PSV (m/s)	EDV (m/s)	Stenosis
Left Common Plaque Disease length from BI	No Turbulence Mixed		PSV (m/s)	EDV (m/s)	Stenosis < 40%
Left Common Plaque Disease length from BI	No Turbulence Mixed IF		PSV (m/s)	EDV (m/s)	Stenosis < 40%
Left Common Plaque Disease length from BI	Mixed Mixed		PSV (m/s)	EDV (m/s)	Stenosis < 40%
Left Common Plaque Disease length from BI Bifurcation Plaque Disease length from BI	Mixed Mixed		PSV (m/s)	EDV (m/s)	Stenosis < 40%
Left Common Plaque Disease length from BI Bifurcation Plaque Disease length from BI Internal	Mixed IF Mixed IF		PSV (m/s) 0.83	EDV (m/s) 0.21	Stenosis < 40%
Left Common Plaque Disease length from BI Bifurcation Plaque Disease length from BI	Mixed IF Mixed IF Dense Mixed	Diameter (cm)	PSV (m/s) 0.83	EDV (m/s) 0.21	Stenosis < 40% < 40%
Left Common Plaque Disease length from BI Bifurcation Plaque Disease length from BI Internal Plaque Disease length from BI	Mixed IF Mixed IF Dense Mixed	Diameter (cm)	PSV (m/s) 0.83	EDV (m/s) 0.21	Stenosis < 40% < 40%
Left Common Plaque Disease length from BI Bifurcation Plaque Disease length from BI Internal Plaque Disease length from BI	Mixed IF Mixed IF Dense Mixed	Diameter (cm)	PSV (m/s) 0.83 CCA = 1.1	EDV (m/s) 0.21	< 40% < 30% 4.4
Left Common Plaque Disease length from BI Bifurcation Plaque Disease length from BI Internal Plaque Disease length from BI External	Mixed IF Mixed IF Dense Mixed IF Mixed	Diameter (cm)	PSV (m/s) 0.83 CCA = 1.1	EDV (m/s) 0.21	< 40% < 30% 4.4
Left Common Plaque Disease length from BI Bifurcation Plaque Disease length from BI Internal Plaque Disease length from BI External Plaque	Mixed IF Mixed IF Dense Mixed IF Mixed	Diameter (cm)	PSV (m/s) 0.83 CCA = 1.1	EDV (m/s) 0.21	< 40% < 30% 4.4

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Mixed plaque identified in the right ICA forming a less than 40% stenosis.

LEFT

Mixed and dense plaque identified in the left ICA forming a less than 30% stenosis.

Assessed by

David Barrett

Printed on 06/08/2022 at 2:52 pm

Reason	Stroke				
Outcome	Widely patent				
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common			1.11	0.13	< 25%
Plaque Disease length from B	Normal				
Bifurcation					< 25%
Plaque Disease length from B	Normal				
Internal			0.80	0.21	< 25%
Plaque	Normal		0.00		
Disease length from E	DIF	Pk ICA/	Pk CCA = 0.7	Pk ICA/End CCA = 6.2	
External			0.67		< 25%
Plaque	Normal				
Disease length from E	BIF				
Vertebral	Open Orthograde				
Subclavian	No Turbulence	Goo	d Signal Tripl	nasic W	idely Patent
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common			1.49	0.23	< 25%
Plaque	Normal		0		
Disease length from E	SIF				*
Bifurcation					< 25%
Plaque	Normal				
Plaque Disease length from E	SIF		0.93	0.25	< 25%
Plaque Disease length from E Internal Plaque	· Normal				
Plaque Disease length from E	· Normal	Pk ICA/I	0.93 2k CCA = 0.6	0.25 Pk ICA/End CCA = 4.0	
Plaque Disease length from E Internal Plaque Disease length from E External	Normal SIF	Pk ICA/I			
Plaque Disease length from E Internal Plaque Disease length from E External Plaque	Normal Normal	Pk ICA/I	Pk CCA = 0.6		
Plaque Disease length from E Internal Plaque Disease length from E External	Normal Normal	Pk ICA/I	Pk CCA = 0.6		
Plaque Disease length from E Internal Plaque Disease length from E External Plaque	Normal Normal	Pk ICA/I	Pk CCA = 0.6		

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

The right and left extra-cranial carotid arteries appear widely patent. No evidence of any plaque morphology, intimal dissection or other abnormality identified.

Assessed by

David Barrett

Printed on 06/08/2022 at 2:52 pm



Reason	TIA clinic			
Outcome	Calcified, disease - mild			
Right		Diameter (cm) PSV (m/s	EDV (m/s)	Stenosi
Common		1.42	0.33	< 30%
Plaque Disease length from B	Intimal Thickening			*
Bifurcation Plaque Disease length from B	Dense Mixed Calcified			< 40%
Internal		0.93	0.22	< 40%
Plaque Disease length from B	Dense Mixed Calcified	Pk ICA/Pk CCA = 0.7	Pk ICA/End CCA = 2.	8
External		1.50		< 30%
Plaque Disease length from E	Mixed			
Vertebral	Open Orthograde			4
Subclavian	No Turbulence	Good Signal	Triphasic	Widely Patent
Left		Diameter (cm) PSV (m/s	EDV (m/s)	Stenosis
Plaque Disease length from E	Intimal Thickening	1.39	0.28	< 30%
Plaque	Dense Mixed Calcified	1.39	0.28	< 50%
Plaque Disease length from E Bifurcation Plaque	Dense Mixed Calcified	1.0		
Plaque Disease length from E Bifurcation Plaque Disease length from E	Dense Mixed Calcified Dense Mixed Calcified			< 40%
Plaque Disease length from E Bifurcation Plaque Disease length from E Internal Plaque	Dense Mixed Calcified Dense Mixed Calcified Dense Mixed Calcified Dense Mixed Calcified	1.0	0.23 Pk ICA/End CCA = 3.	< 40%
Plaque Disease length from E Bifurcation Plaque Disease length from E Internal Plaque Disease length from E External Plaque	Dense Mixed Calcified Dense Mixed Calcified Dense Mixed Calcified Dense Mixed Calcified	1.0: Pk ICA/Pk CCA = 0.7	0.23 Pk ICA/End CCA = 3.	< 50% < 40%

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

Mixed, dense and calcified plaque identified in the right and left ICA forming a less than 40% stenosis bilaterally.

Assessed by David Barrett
Printed on 06/08/2022 at 2:36 pm



Reason	Stroke				
Outcome	Well vascularised mass, Calc	ified, disease - mild			
Right		Diameter (cm) P	SV (m/s)	EDV (m/s)	Stenosi
Common			0.79	0.15	< 30%
Plaque Disease length from	Mixed BIF				
Bifurcation					< 50%
Plaque Disease length from	Dense Mixed Calcified BIF				
Internal			1.01	0.28	< 40%
Plaque Disease length from	Dense Mixed Calcifled	Pk ICA/Pk CCA		Pk ICA/End CCA = 6.2	,
					< 30%
External Plaque	Mixed		0.66		\ 30 /c
Disease length from					
Vertebral	Open Orthograde				
Subclavian	No Turbulence	Good Signa	al Triph	nasic V	Videly Patent
Left		Diameter (cm) P	SV (m/s)	EDV (m/s)	Stenosis
Common			0.88	0.16	< 30%
Plaque	Mixed				
Disease length from	BIF				
Bifurcation					< 40%
Plaque	Dense Mixed Calcified				
Disease length from	BIF				
Internal			0.81	0.21	< 30%
Plaque	Mixed			DI- TOA (F-4 CCA - F -	T.V.
Disease length from	BIF	Pk ICA/Pk CCA	= 0.9	Pk ICA/End CCA = 5.3	
External Plaque Disease length from	Mixed BIF		- 0.81		< 30%
	Ones Outhornedo				
Vertebral	Open Orthograde				

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Mixed, dense and calcified plaque identified in the right ICA forming a less than 40% stenosis.

LEFT

Mixed plaque identified in the left ICA forming a less than 30% stenosis.

Additional comments: Enlarged vascularised mass noted in the right and left thyroid regions measuring ~1.6cm x 2.6cm and ~1.8cm x 1.9cm, respectively - suggest general ultrasound, if appropriate.

David Barrett Assessed by

Checked by

Printed on 06/08/2022 at 2:35 pm

Reason	TIA clinic				
Outcome	Cyst, disease - mild				
Right		Diamețer (cm)	PSV (m/s)	EDV (m/s)	Stenosi
Common Plaque Disease length from B	Intimal Thickening		0.96	0.17	< 30%
Bifurcation Plaque Disease length from B	Intimal Thickening				< 30%
Internal Plaque Disease length from B	Intimal Thickening	Pk ICA/Pk C	0.60 CA = 0.6	0.17 Pk ICA/End CCA =	< 30%
External Plaque Disease length from B	Intimal Thickening		0.82		< 30%
Vertebral	Open Orthograde				
Subclavian	No Turbulence	Good Sig	gnal Biph	asic	Widely Patent
Left		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosis
Common Plaque Disease length from B	Intimal Thickening		1.03	0.20	< 30%
Bifurcation Plaque Disease length from B	Intimal Thickening				< 30%
Internal Plaque Disease length from B	Dense Mixed	Pk ICA/Pk C	0.84 CA = 0.8	0.20 Pk ICA/End CCA =	< 40% 4.2
External Plaque Disease length from B	Intimal Thickening		0.91		< 30%
Vertebral	Open Orthograde				
Subclavian	No Turbulence	Good Sig	gnal Biph	asic	Widely Patent

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Intimal thickening identified in the right ICA forming a less than 30% reduction in luminal diameter.

LEFT

Mixed and dense plaque identified in the left ICA forming a less than 40% stenosis.

Additional comments: Non-vascularised echolucent/mixed echogenic ?cyst noted anterior to carotid bifurcation on right (~1.9cm x 3cm) and left (~1.1cm x 1.5cm) side - suggest general ultrasound, if appropriate.

David Barrett Assessed by Printed on 06/08/2022 at 2:32 pm

Reason Stro	oke				
Outcome dise	ease - mild				
Right		Diameter (cm)	PSV (m/s)	EDV (m/s)	Stenosi
Common Plaque Disease length from BIF	Mixed		1.07	0.29	< 30%
Bifurcation Plaque Disease length from BIF	Dense Mixed				< 40%
Internal Plaque Disease length from BIF	Mixed	DL TCA	1.13	0.32 Pk ICA/End CCA =	< 30%
External Plaque	Mixed	PKICA	Pk CCA = 1.1	PR ICA/Enu CCA -	< 30%
Disease length from BIF			*		
Vertebral	Open Orthograde				
	Open Orthograde No Turbulence	God	od Signal B	iphasic	Widely Patent
Vertebral		Diameter (cm)	od Signal B PSV (m/s)	iphasic EDV (m/s)	Widely Patent Stenosis
Vertebral Subclavian					
Vertebral Subclavian Left Common Plaque	No Turbulence		PSV (m/s)	EDV (m/s)	Stenosis
Vertebral Subclavian Left Common Plaque Disease length from BIF Bifurcation Plaque Disease length from BIF Internal Plaque	No Turbulence Mixed	Diameter (cm)	PSV (m/s) 1.32	EDV (m/s) 0.31	Stenosis < 30% < 40%
Vertebral Subclavian Left Common Plaque Disease length from BIF Bifurcation Plaque Disease length from BIF Internal Plaque Disease length from BIF External Plaque	Mixed Dense Mixed	Diameter (cm)	PSV (m/s) 1.32	EDV (m/s) 0.31	Stenosis < 30% < 40% < 40%
Vertebral Subclavian Left Common Plaque Disease length from BIF Bifurcation Plaque Disease length from BIF Internal Plaque Disease length from BIF External	Mixed Dense Mixed Dense Mixed	Diameter (cm)	PSV (m/s) 1.32 O.94 Pk CCA = 0.7	EDV (m/s) 0.31	Stenosis < 30% < 40%

Disease within large diameter carotid bulb is measured using direct diameter methods as recommended in Oates et al (2009).

Notes

CAROTID DUPLEX ASSESSMENT

RIGHT

Mixed plaque identified in the right ICA forming a less than 30% stenosis.

LEFT

Mixed and dense plaque identified in the left ICA forming a less than 40% stenosis.

Assessed by

David Barrett

Printed on 06/08/2022 at 2:29 pm