

Carotid & TCD scans

1	Carotid	08/12/23
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6	Carotid	30/11/23
7	Carotid	30/11/23
8	TCD	24/11/23
9	Carotid	24/11/23
10	Carotid	24/11/23
11	Carotid	16/11/23
12	Carotid	16/11/23
13	Carotid	02/11/23
14	Carotid	02/11/23
15	Carotid	02/11/23
16	Carotid	02/11/23
17	Carotid	01/11/23
18	Carotid	31/10/23
19	Carotid	27/10/23
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CAROTID DUPLEX:

SYMPTOMS: Loud pulsatile tinnitus for several months. Bilateral visual disturbance for several months

RISK FACTORS: Non reported.

Note: Slightly irregular heart rate.

RIGHT SIDE

Common carotid artery: normal 59/18cm/s

Carotid bifurcation: moderate atheroma

Internal carotid artery: Large calcified plaque (approx. 2.0cm in length) at origin causing a 70-89% stenosis (320/130cm/s R1=4 and R2=18). Distally free from atheroma.

External carotid artery: mild atheroma 55/4cm/s

Vertebral artery: normal 59/15cm/s

Subclavian artery: Irregular atheroma 116cm/s, triphasic

LEFT SIDE

Common carotid artery: normal 94/31cm/s

Carotid bifurcation: moderate atheroma

Internal carotid artery: Large calcified plaque at origin, <50% stenosis (88/33cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 62/7cm/s

Vertebral artery: normal 118cm/s

Subclavian artery: Irregular atheroma cm/s, triphasic

SUMMARY RIGHT SIDE: 70-89% STENOSIS IN THE INTERNAL CAROTID ARTERY. Normally positioned bifurcation

SUMMARY LEFT SIDE: <50% stenosis of the internal carotid artery

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICAp_{sv}/CCAp_{sv}, R2: ICAp_{sv}/CCAe_{dv} in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

SYMPTOMS: 6/12/23 episode of expressive aphasia.

RIGHT SIDE

Common carotid artery: normal 72/8cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (90/9cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 105/0cm/s

Vertebral artery: normal 35/3cm/s

Subclavian artery: normal 179cm/s

LEFT SIDE

Common carotid artery: normal 76/11cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (102/6cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 108/0cm/s

Vertebral artery: normal 83/13cm/s

Subclavian artery: normal 170cm/s

SUMMARY RIGHT SIDE: mild atheroma in the extracranial carotid arteries

SUMMARY LEFT SIDE: mild atheroma in the extracranial carotid arteries

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApsv/CCApsv, R2: ICApsv/CCAedy in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

RIGHT SIDE

Common carotid artery: normal 65/10cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (82/13cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 114/6cm/s

Vertebral artery: normal 39/6cm/s

Subclavian artery: normal 118cm/s

LEFT SIDE

Common carotid artery: mild atheroma 89/14cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (62/8cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 66/15/s

Vertebral artery: normal 49/10cm/s

Subclavian artery: normal 120cm/s

SUMMARY RIGHT SIDE: mild atheroma in the extracranial carotid arteries

SUMMARY LEFT SIDE: mild atheroma in the extracranial carotid arteries

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApsy/CCApsy, R2: ICApsy/CCAedy in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

RIGHT SIDE

Common carotid artery: mild atheroma 88/16cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (68/14cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 84/0cm/s

Vertebral artery: normal 62/5cm/s

Subclavian artery: normal 123cm/s

LEFT SIDE

Common carotid artery: mild atheroma 93/17cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (61/13cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 109/0cm/s

Vertebral artery: normal 49/7cm/s

Subclavian artery: normal 187cm/s

SUMMARY RIGHT SIDE: mild atheroma in the extracranial carotid arteries

SUMMARY LEFT SIDE: mild atheroma in the extracranial carotid arteries

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICAp_{sv}/CCAp_{sv}, R2: ICAp_{sv}/CCAe_{dv} in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

SYMPTOMS: Presented with facial droop and slurring of speech since 1-2 days noticed by daughter.

RIGHT SIDE

Common carotid artery: normal 63/11cm/s

Carotid bifurcation: moderate atheroma

Internal carotid artery: Large calcified plaque (approx. 1.8 cm in length) at origin causing a 50-69% stenosis (174/34cm/s R1=3 and R2=16, 2 out of 3 criteria agree). Distally free from atheroma.

External carotid artery: mild atheroma 161/0cm/s

Vertebral artery: normal 35/9cm/s

Subclavian artery: normal 95cm/s

LEFT SIDE

Common carotid artery: normal 86/17cm/s

Carotid bifurcation: moderate atheroma

Internal carotid artery: Large calcified plaque at origin, <50% stenosis (93/22cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 138/0 cm/s

Vertebral artery: normal 72/6cm/s

Subclavian artery: normal 125cm/s

SUMMARY RIGHT SIDE: 50-69% STENOSIS IN THE INTERNAL CAROTID ARTERY. Normally positioned bifurcation

SUMMARY LEFT SIDE: <50% stenosis of the internal carotid artery

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApsy/CCApsy, R2: ICApsy/CCAedy in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

SYMPTOMS: Cardiac pre-op CABG.

RIGHT SIDE

Common carotid artery: normal 66/22cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (75/32cm/s R1 <2 and R2<8)

External carotid artery: normal 78/12cm/s

Vertebral artery: normal 47/14cm/s

Subclavian artery: normal 92cm/s

LEFT SIDE

Common carotid artery: normal 64/20cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (82/34cm/s R1 <2 and R2<8)

External carotid artery: normal 68/8cm/s

Vertebral artery: normal 42/9cm/s

Subclavian artery: normal 100cm/s

SUMMARY RIGHT SIDE: mild atheroma carotid arteries

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICAp_{sv}/CCAp_{sv}, R2: ICAp_{sv}/CCAe_d in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

SYMPTOMS: Right sided numbness post cardiac surgery. ?TIA.

RIGHT SIDE

Common carotid artery: normal 57/23cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (68/26cm/s R1 <2 and R2<8)

External carotid artery: normal 60/12cm/s

Vertebral artery: normal 43/16cm/s

Subclavian artery: normal 81cm/s

LEFT SIDE

Common carotid artery: normal 70/27cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (74/31cm/s R1 <2 and R2<8)

External carotid artery: normal 79/15 cm/s

Vertebral artery: normal 39/15cm/s

Subclavian artery: normal 142cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApsv/CCApsv, R2: ICApsv/CCAedy in accordance with NASCET criteria and SVT recommendations.

TRANSCRANIAL DUPLEX:

RIGHT SIDE (TAMMV in cm/s)

Middle cerebral artery: 145

Distal internal carotid artery: 148

Anterior cerebral artery: 94

LEFT SIDE (TAMMV in cm/s)

Middle cerebral artery: 146

Distal internal carotid artery: 114

Anterior cerebral artery: 82

SUMMARY: All velocities within normal range.

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Technical quality: Good

Any queries please contact Vascular Science on 0117 34 27530

TCDi criteria for Time-Averaged Maximum Mean Velocities (TAMMV)

Normal <170cm/s (repeat in 1 yr)

Conditional 170-199cm/s (repeat in 6/52 to 3/12)

Abnormal >200cm/s (repeat in 1/52)

CAROTID DUPLEX:

SYMPTOMS: Cardiac pre-op (CABG)

RIGHT SIDE

Common carotid artery: normal 75/8cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (98/19cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 214/7cm/s

Vertebral artery: normal 67/13cm/s

Subclavian artery: normal 126cm/s

LEFT SIDE

Common carotid artery: normal 107/11cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (114/28cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 139/7cm/s

Vertebral artery: normal 58/18cm/s

Subclavian artery: normal 121cm/s

SUMMARY RIGHT SIDE: mild atheroma in the extracranial carotid arteries

SUMMARY LEFT SIDE: mild atheroma in the extracranial carotid arteries

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApsv/CCApsv, R2: ICApsv/CCAedy in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

SYMPTOMS: Left eye visual disturbance (flashing) for 5months.

RIGHT SIDE

Common carotid artery: normal 95/16cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (75/27cm/s R1 <2 and R2<8)

External carotid artery: normal 100/4cm/s

Vertebral artery: normal 50/8cm/s

Subclavian artery: normal 195cm/s

LEFT SIDE

Common carotid artery: normal 83/20cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (89/31cm/s R1 <2 and R2<8)

External carotid artery: normal 83/8cm/s

Vertebral artery: normal 57/18cm/s

Subclavian artery: normal 176cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApsy/CCApsy, R2: ICApsy/CCAedy in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

SYMPTOMS: 14.1.23 with left arm/leg weakness ongoing.

RIGHT SIDE

Common carotid artery: normal 91/20cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (79/20cm/s R1 <2 and R2<8)

External carotid artery: normal 60/5cm/s

Vertebral artery: normal 60/12cm/s

Subclavian artery: normal 119cm/s

LEFT SIDE

Common carotid artery: normal 76/17cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (100/27cm/s R1 <2 and R2<8)

External carotid artery: normal 100/5cm/s

Vertebral artery: normal 63/13cm/s

Subclavian artery: normal 91cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: mild atheroma in the extracranial carotid arteries

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApsv/CCApsv, R2: ICApsv/CCAedy in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

SYMPTOMS: Speech disturbance 13.11.23 lasting 20 mins

RISK FACTORS: HTN

RIGHT SIDE

Common carotid artery: normal 57/10cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (56/13cm/s R1 <2 and R2<8)

External carotid artery: normal 69/7cm/s

Vertebral artery: normal 32/0cm/s

Subclavian artery: normal 151cm/s

LEFT SIDE

Common carotid artery: normal 74/12cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (76/20cm/s R1 <2 and R2<8)

External carotid artery: normal 78/9cm/s

Vertebral artery: normal 45/10cm/s

Subclavian artery: normal 66cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApv/CCApv, R2: ICApv/CCAedy in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

SYMPTOMS: Episode of word finding difficulty and confusion lasting a couple of hours on 31/10/2023. Ongoing balance issues.

RISK FACTORS: Hypertension

RIGHT SIDE

Common carotid artery: mild atheroma 72/8cm/s

Carotid bifurcation: small calcified plaque

Internal carotid artery: small calcified plaque (approx. 1.3cm in length) at origin, <50% stenosis (cm/s R1 <2 and R2<8)

External carotid artery: normal 84/0cm/s

Vertebral artery: normal 42/10cm/s

Subclavian artery: normal 113cm/s

LEFT SIDE

Common carotid artery: normal 87/12cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (49/14cm/s R1 <2 and R2<8)

External carotid artery: normal 92/0cm/s

Vertebral artery: normal 78/10cm/s

Subclavian artery: normal 101cm/s

Comments: irregular heart rate noted during scan. Patient reported Atrial Fibrillation.

SUMMARY RIGHT SIDE: <50% stenosis of the internal carotid artery

SUMMARY LEFT SIDE: mild atheroma in the extracranial carotid arteries

Scanned by: M. Bitterlin, Junior Clinical Vascular Scientist

R. Fulls, Senior Clinical Vascular Scientist

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApsy/CCApsy, R2: ICApsy/CCAedy in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

SYMPTOMS: Episode of left sided facial droop and slurred speech on Tuesday night, lasting approx 15mins.

RIGHT SIDE

Common carotid artery: normal 66/14 cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (64/16 cm/s R1 <2 and R2<8)

External carotid artery: normal 69/6 cm/s

Vertebral artery: normal 57/14 cm/s

Subclavian artery: normal 126 cm/s

LEFT SIDE

Common carotid artery: normal 100/22 cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: Large smooth homogeneous plaque at origin (2cm in length), however <50% stenosis (75/21 cm/s R1 <2 and R2<8). Distally free from atheroma.

External carotid artery: mild atheroma 65/9 cm/s

Vertebral artery: normal 55/16 cm/s

Subclavian artery: normal 139 cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: <50% stenosis of the Internal Carotid Artery

Scanned by: J Elvin, Junior Clinical Vascular Scientist and R Fulls, Senior Clinical Vascular Scientist

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApsv/CCApv, R2: ICApsv/CCAedv in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

RIGHT SIDE

Common carotid artery: normal 37/9cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (46/15cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 67/13cm/s

Vertebral artery: normal 40/16cm/s

Subclavian artery: normal 125cm/s

LEFT SIDE

Common carotid artery: normal 47/13cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (44/15cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 49/9cm/s

Vertebral artery: normal 43/16cm/s

Subclavian artery: normal 131cm/s

SUMMARY RIGHT SIDE: mild atheroma in the extracranial carotid arteries

SUMMARY LEFT SIDE: mild atheroma in the extracranial carotid arteries

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApv/CCApv, R2: ICApv/CCAedv in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

RIGHT SIDE

Common carotid artery: normal 78/19cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (68/22cm/s R1 <2 and R2<8)

External carotid artery: Homogeneous, echolucent atheroma causing a STENOSIS (227/41cm/s)

Vertebral artery: Unable to detect vertebral flow

Subclavian artery: Damped monophasic Doppler waveforms indicate proximal subclavian stenosis/occlusion outside of field of ultrasound (22cm/s)

LEFT SIDE

Common carotid artery: normal 57/20 cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: Large mixed echogenic plaque (approx. 1.0cm in length) at origin causing a 70-89% STENOSIS (230/71cm/s R1=4 and R2=12).

Distally free from atheroma.

External carotid artery: mild atheroma 182/33cm/s

Vertebral artery: normal 47/19cm/s

Subclavian artery: normal 116cm/s, triphasic waveform.

SUMMARY RIGHT SIDE: Mild atheroma in the internal carotid artery. External carotid artery STENOSIS. ?proximal subclavian stenosis/occlusion outside of field of ultrasound. No Vertebral artery flow seen.

SUMMARY LEFT SIDE: 70-89% STENOSIS IN THE INTERNAL CAROTID ARTERY. Normally positioned bifurcation

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApvs/CCApvs, R2: ICApvs/CCAAdv in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

SYMPTOMS: ??occluded R ICA on MRI. Ongoing tinnitus.

RISK FACTORS: Ex-smoker. HTN. IHD.

RIGHT SIDE

Common carotid artery: Chronically occluded

Carotid bifurcation: Chronically occluded

Internal carotid artery: Chronically occluded. Multiple collateral vessels seen.

External carotid artery: patent with low resistance flow 29/5 cm/s

Vertebral artery: normal 109/24 cm/s

Subclavian artery: normal 56 cm/s

LEFT SIDE

Common carotid artery: mild atheroma 65/21 cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: large calcified plaque at origin (1.5 cm in length) causing a >90% stenosis (534/201 cm/s R1= 8 and R2 = 25) 2 out of 3 criteria agree. Distally free from atheroma.

External carotid artery: mild atheroma 115/13 cm/s

Vertebral artery: normal 62/15 cm/s

Subclavian artery: normal 139 cm/s

SUMMARY RIGHT SIDE: Chronically occluded Common and Internal Carotid arteries.

SUMMARY LEFT SIDE: > 90% stenosis of the Internal Carotid Artery.

Scanned by: J Elvin (Junior Clinical Vascular Scientist) and R Fulls (Senior Clinical Vascular Scientist).

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApsv/CCApsv, R2: ICApsv/CCAedy in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

Challenging scan with sub-optimal imaging due to patient movement/agitation and heavy breathing throughout.

RIGHT SIDE

Common carotid artery: moderate diffuse calcified atheroma throughout 56/0cm/s

Carotid bifurcation: moderate calcified atheroma

Internal carotid artery: Large smooth mixed echogenic but predominantly echolucent plaque (approx. 1.5cm in length) at origin causing a borderline 50% stenosis (118/13cm/s R1= 2). Distally free from atheroma. Unable to calculate R2 ratio due to 0 EDV in the CCA.

External carotid artery: mild atheroma 50/2cm/s

Vertebral artery: normal 56/9cm/s

Subclavian artery: normal 58cm/s

LEFT SIDE

Common carotid artery: moderate diffuse calcified atheroma throughout 56/8cm/s

Carotid bifurcation: moderate atheroma

Internal carotid artery: Large irregular calcified plaque (approx. 2cm in length) causing a 50-69% stenosis 2cm distal to the origin (136/29cm/s R1=2 and R2= 17). Distally free from atheroma.

External carotid artery: mild atheroma tortuous 92/0cm/s

Vertebral artery: not assessed due to patient movement and agitation

Subclavian artery: not assessed due to patient movement and agitation

SUMMARY RIGHT SIDE: borderline 50% STENOSIS IN THE INTERNAL CAROTID ARTERY. Normally positioned bifurcation

SUMMARY LEFT SIDE: 50-69% STENOSIS IN THE INTERNAL CAROTID ARTERY. Normally positioned bifurcation

Scanned by: M. Bitterlin, Junior Clinical Vascular Scientist and R. Fulls, Senior Clinical Vascular Scientist

Any queries please contact Vascular Science on 0117 34 27530.

CAROTID DUPLEX:

SYMPTOMS: Cardiac pre-op

Irregular heart rate noted.

RIGHT SIDE

Common carotid artery: normal 77/10cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (82/23cm/s R1 <2 and R2<8)

External carotid artery: normal 108/9cm/s

Vertebral artery: normal 33/9cm/s

Subclavian artery: normal 89cm/s

LEFT SIDE

Common carotid artery: normal 67/18cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (85/24cm/s R1 <2 and R2<8)

External carotid artery: normal 106/10cm/s

Vertebral artery: normal 37/10cm/s

Subclavian artery: normal 198cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApsy/CCApsy, R2: ICApsy/CCAedy in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

SYMPTOMS: Right sided hand weakness with dizziness and struggling to verbalise lasting 20-30 minutes on 22/10/23.

RISK FACTORS: Smoker (15-20 per day)

RIGHT SIDE

Common carotid artery: irregular calcified plaque throughout 104/10cm/s

Carotid bifurcation: moderate atheroma

Internal carotid artery: Large calcified plaque at origin, <50% stenosis (76/17cm/s R1 <2 and R2<8)

External carotid artery: stenosed with raised velocities 275/17cm/s

Vertebral artery: normal 47/17cm/s

Subclavian artery: calcified plaque with slightly raised velocities 249cm/s

LEFT SIDE

Common carotid artery: irregular calcified plaque throughout 93/10cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: mild atheroma (87/19cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 184/22cm/s

Vertebral artery: normal 34/12cm/s

Subclavian artery: calcified plaque with slightly raised velocities 216cm/s

SUMMARY RIGHT SIDE: <50% stenosis of the internal carotid artery

SUMMARY LEFT SIDE: mild atheroma of the internal carotid artery

Scanned by: M. Bitterlin, Junior Clinical Vascular Scientist and R. Fulls, Senior Clinical Vascular Scientist

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApsv/CCApsv, R2: ICApsv/CCAedy in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

RIGHT SIDE

Common carotid artery: normal 61/12cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: normal (59/15cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 110/4cm/s

Vertebral artery: normal 49/10cm/s

Subclavian artery: normal 161cm/s

LEFT SIDE

Common carotid artery: normal 67/11cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: normal (69/16cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 84/0cm/s

Vertebral artery: normal 42/10cm/s

Subclavian artery: normal 131cm/s

SUMMARY RIGHT SIDE: mild atheroma extracranial carotid arteries

SUMMARY LEFT SIDE: mild atheroma extracranial carotid arteries

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

CAROTID DUPLEX:

SYMPTOMS: CABG Pre-op

RIGHT SIDE

Common carotid artery: mild atheroma 86/16cm/s

Carotid bifurcation: mild

Internal carotid artery: Smooth mixed echogenicity plaque (approx. 1.4cm in length) at origin, <50% stenosis (103/23cm/s R1 <2 and R2<8)

External carotid artery: normal 144cm/s

Vertebral artery: normal 48/10cm/s

Subclavian artery: normal 80cm/s

LEFT SIDE

Common carotid artery: small irregular mixed echogenicity plaque (approx. 1.5cm in length) in the distal CCA, <50% stenosis 63/13cm/s

Carotid bifurcation: mild

Internal carotid artery: mild (61/12cm/s R1 <2 and R2<8)

External carotid artery: normal 56cm/s

Vertebral artery: normal 36/7cm/s

Subclavian artery: normal 91/5cm/s

SUMMARY RIGHT SIDE: <50% stenosis of the internal carotid artery

SUMMARY LEFT SIDE: mild atheroma of the internal carotid artery.

Scanned by: M. Bitterlin, Junior Clinical Vascular ScientistR. Fulls, Senior Clinical Vascular Scientist

Any queries please contact Vascular Science on 0117 34 27530.

Maximum peak systolic velocity (PSV) and end diastolic velocity (EDV) measurements, along with ICApsv/CCApsv (R1) and ICApsv/CCAedv (R2) ratio calculations, are obtained to categorise the % stenosis in accordance with SVT/VS grading recommendations and NASCET criteria.

CAROTID DUPLEX:

RIGHT SIDE

Common carotid artery: normal 73/15cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: small calcified plaque at origin, <50% stenosis (98/19cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 91/0cm/s

Vertebral artery: normal 159/34cm/s (high velocity flow throughout vertebral, no focal stenosis seen)

Subclavian artery: normal 149cm/s

LEFT SIDE

Common carotid artery: normal 96/20cm/s

Carotid bifurcation: mild atheroma

Internal carotid artery: irregular calcified plaque at origin <50% stenosis (85/19cm/s R1 <2 and R2<8)

External carotid artery: mild atheroma 109/0 cm/s

Vertebral artery: normal 81/16cm/s

Subclavian artery: normal 183cm/s

SUMMARY RIGHT SIDE: calcified plaque but <50% stenosis of the internal carotid artery

SUMMARY LEFT SIDE: calcified plaque but <50% stenosis of the internal carotid artery

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICApsy/CCApsy, R2: ICApsy/CCAedy in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

SYMPTOMS: Episode of expressive dysphasia

RIGHT SIDE

Common carotid artery: normal 62/12cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (70/15cm/s R1 <2 and R2<8)

External carotid artery: normal 89/12cm/s

Vertebral artery: normal 54/10cm/s

Subclavian artery: normal 149cm/s

LEFT SIDE

Common carotid artery: normal 64/10cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (67/15cm/s R1 <2 and R2<8)

External carotid artery: normal 66/0cm/s

Vertebral artery: normal 60/13cm/s

Subclavian artery: normal 159cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned by: R Fulls, Senior Clinical Vascular Scientist

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICAPsv/CCAPsv, R2: ICAPsv/CCAedy in accordance with NASCET criteria and SVT recommendations.

CAROTID DUPLEX:

RIGHT SIDE

Common carotid artery: normal 55/15cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (64/19cm/s R1 <2 and R2<8)

External carotid artery: normal 79/13cm/s

Vertebral artery: normal 43/12 cm/s

Subclavian artery: normal 69cm/s

LEFT SIDE

Common carotid artery: normal 69/22 cm/s

Carotid bifurcation: normal

Internal carotid artery: normal (66/27cm/s R1 <2 and R2<8)

External carotid artery: normal 89/15cm/s

Vertebral artery: normal 39/13cm/s

Subclavian artery: normal 126cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned by: Rebecca Fulls (Senior Vascular Clinical Scientist)

Any queries please contact Vascular Science on 0117 34 27530.

R1: ICAp_{sv}/CCAp_{sv}, R2: ICAp_{sv}/CCAe_{dv} in accordance with NASCET criteria and SVT recommendations.