

Core Modality 1: Carotid duplex [25 scans over a 3 month period: 26/05/21 – 26/08/21]

Carotid report	Assessment type	Assessment date
C1	Carotid (BRI)	23/08/21
C2	Carotid (BRI)	26/07/21
C3	Carotid (WGH)	22/07/21
C4	Carotid (WGH)	22/07/21
C5	Carotid (WGH)	22/07/21
C6	Carotid (WGH)	22/07/21
C7	Carotid (WGH)	19/07/21
C8	Carotid (BRI)	16/07/21
C9	Carotid (BRI)	14/07/21
C10	Carotid (BRI)	13/07/21
C11	Carotid (BRI)	13/07/21
C12	Carotid (BRI)	25/06/21
C13	Carotid (BRI)	24/06/21
C14	Carotid (BRI)	23/06/21
C15	Carotid (BRI)	22/06/21
C16	Carotid (BRI)	22/06/21
C17	Carotid (BRI)	22/06/21
C18	Carotid (BRI)	21/06/21
C19	Carotid (WGH)	17/06/21
C20	Carotid (WGH)	17/06/21
C21	Carotid (WGH)	10/06/21
C22	Carotid (WGH)	10/06/21
C23	Carotid (WGH)	10/06/21
C24	Carotid (WGH)	8/06/21
C25	Carotid (WGH)	8/06/21

CAROTID DUPLEX:

SYMPTOMS: Right arm and leg weakness (lasting <30mins) and slurred speech (ongoing). Onset 2 days ago.

RISK FACTORS: HTN, NIDDM

Patient in sinus rhythm.

RIGHT SIDE

Common carotid artery (RCCA) mild 62/12cm/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) small irregular plaque <50% (89/19cm/s R1 <2 and R2<8)

External carotid artery (RECA) mild 94/0cm/s

Vertebral artery (RVert) normal 34/7cm/s

Subclavian artery (RSubc) normal 83cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) mild 76/11cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) small irregular plaque <50% (85/19cm/s R1 <2 and R2<8)

External carotid artery (LECA) mild 71/6cm/s

Vertebral artery (LVert) normal 54/9cm/s

Subclavian artery (LSub) normal 144cm/s

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

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

Scanned by: Kate Houghton, Senior Clinical Vascular Scientist

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.

Any queries please contact Vascular Science on 0117 34 27530.

CAROTID DUPLEX:

SYMPTOMS: 3-4 month history of nausea and dizziness when turning the head to the side. ? vertebral artery compression.

RISK FACTORS: None.

Patient in sinus rhythm

RIGHT SIDE

Common carotid artery (RCCA) mild 81/24cm/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) mild (56/20cm/s R1 <2 and R2<8)

External carotid artery (RECA) mild 78/9cm/s

Vertebral artery (RVert) head in neutral position: normal 60/21cm/s

Vertebral artery (RVert) head turned to the side: normal

Subclavian artery (RSubc) normal 158cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) mild 75/25cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) mild (63/24cm/s R1 <2 and R2<8)

External carotid artery (LECA) mild 70/11cm/s

Vertebral artery (LVert) head in neutral position: normal 45/18cm/s

Vertebral artery (LVert) head turned to the side: normal

Subclavian artery (LSub) normal 122cm/s

SUMMARY RIGHT SIDE: mild atheroma in the extracranial carotid arteries.

SUMMARY LEFT SIDE: mild atheroma in the extracranial carotid arteries

Scanned by: Kate Houghton, Senior Clinical Vascular Scientist

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

CAROTID DUPLEX:

SYMPTOMS: 45minute episode of confusion and dysphasia 4 days ago after starting Beta Blockers for AF.

RISK FACTORS: None. Recently diagnosed with AF

RIGHT SIDE

Common carotid artery (RCCA) normal 72/21cm/s

Carotid bifurcation (RBif) normal

Internal carotid artery (RICA) normal (78/26cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 91/19cm/s

Vertebral artery (RVert) normal 50/19cm/s

Subclavian artery (RSubc) normal 90cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) normal 76/26cm/s

Carotid bifurcation (LBif) normal

Internal carotid artery (LICA) normal (87/40cm/s R1 <2 and R2<8)

External carotid artery (LECA) normal 97/21cm/s

Vertebral artery (LVert) normal 54/16cm/s

Subclavian artery (LSub) normal 120cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned by: Kate Houghton, senior vascular scientist

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.

AN ADDENDUM HAS BEEN ENTERED AT THE END OF THIS REPORT

CAROTID DUPLEX:

SYMPTOMS: Left arm and leg weakness lasting a few hours, 4 days ago.

RISK FACTORS: Previous TIA, MI, HTN

RIGHT SIDE

Common carotid artery (RCCA) mild 64/16cm/s

Carotid bifurcation (RBif) moderate atheroma (smooth and homogenous)

Internal carotid artery (RICA) large smooth homogenous plaque at origin, which appears 50-69% on B mode HOWEVER velocities and ratios all indicate <50% stenosis (80/23cm/s R1<2 and R2<8).

Distally free from atheroma. PACS images available.

External carotid artery (RECA) normal 119/19cm/s

Vertebral artery (RVert) normal 28/8cm/s

Subclavian artery (RSubc) normal 81cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) mild 70/16cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) tortuous with small irregular plaque at origin <50% (76/22cm/s R1 <2 and R2<8)

External carotid artery (LECA) normal 116/19cm/s

Vertebral artery (LVert) normal 41/10cm/s

Subclavian artery (LSub) normal 84cm/s

SUMMARY RIGHT SIDE: large smooth homogenous plaque which has the appearance of a 50-69% stenosis on B mode. Velocities and ratios all indicate <50% stenosis. Discussed with Dr Haley who is reviewing the patient in clinic today.

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

Scanned by: S. Halliwell (Junior Clinical Vascular Scientist) and K. Houghton (Senior Clinical Vascular Scientist)

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.

Any queries please contact Vascular Science on 0117 34 27530.

ADDENDUM START by Kate Houghton (vasc Scientist) 27-Jul-2021 12:57

Normally positioned bifurcation

CAROTID DUPLEX:

SYMPTOMS: Ongoing RIGHT eye visual loss for ~ 1 week, improving.

RISK FACTORS: MI, past smoker, HTN, NIDDM,

RIGHT SIDE

Common carotid artery (RCCA) mild 88/13 cm/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) small irregular calcified plaque at origin <50% (77/18 cm/s R1 <2 and R2<8)

External carotid artery (RECA) mild 105/14 cm/s

Vertebral artery (RVert) oscillatory flow at rest (with RETROGRADE FLOW during systole and antegrade flow during diastole) indicating a subclavian stenosis.

Subclavian artery (RSubc) stenosis 363cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) mild 101/19 cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) diffuse irregular calcified plaque at origin <50% (95/20 cm/s R1 <2 and R2<8)

External carotid artery (LECA) mild 166/19 cm/s

Vertebral artery (LVert) normal 107/21 cm/s

Subclavian artery (LSub) normal 167/0 cm/s

SUMMARY RIGHT SIDE: <50% stenosis of the internal carotid artery. Subclavian stenosis. Oscillatory flow in the vertebral artery.

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

Scanned by: S. Halliwell (Junior Clinical Vascular Scientist) and K. Houghton (Senior Clinical Vascular Scientist)

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.

Any queries please contact Vascular Science on 0117 34 27530.

CAROTID DUPLEX:

SYMPTOMS: Episode of expressive aphasia 3 weeks ago, lasting a few days.

RISK FACTORS: HTN

RIGHT SIDE

Common carotid artery (RCCA) mild 63/10 m/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) small irregular calcified plaque at origin <50% (52/12 cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 115/6 cm/s

Vertebral artery (RVert) normal 48/8 cm/s

Subclavian artery (RSubc) normal 114 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) mild 63/12 cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) small irregular calcified plaque at origin <50% (44/13 cm/s R1 <2 and R2<8)

External carotid artery (LECA) mild 115/8 cm/s

Vertebral artery (LVert) normal 47/13 cm/s

Subclavian artery (LSub) normal 114/0 cm/s

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

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

Scanned by: K. Houghton (Senior Clinical Vascular Scientist)

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.

Any queries please contact Vascular Science on 0117 34 27530.

CAROTID DUPLEX:

SYMPTOMS: Ongoing right eye lateral peripheral visual loss. Onset 12 weeks ago

RISK FACTORS: MI, HTN and ex-smoker (40 years ago)

RIGHT SIDE

Common carotid artery (RCCA) mild 69/13 cm/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) mild (53/17 cm/s R1 <2 and R2<8)

External carotid artery (RECA) mild 74/6 cm/s

Vertebral artery (RVert) normal 78/15 cm/s

Subclavian artery (RSubc) normal 131/0 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) mild 65/11 cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) small irregular calcified plaque at origin <50% (45/15 cm/s R1 <2 and R2<8)

External carotid artery (LECA) mild 83/5 cm/s

Vertebral artery (LVert) normal 41/11 cm/s

Subclavian artery (LSub) normal 112/0 cm/s

SUMMARY RIGHT SIDE: mild atheroma in the extracranial carotid arteries

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

Scanned by: K. Houghton (Senior Vascular Scientist)

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

Any queries please contact Vascular Science on 0117 34 27530.

CAROTID DUPLEX:

SYMPTOMS: two episodes of left sided weakness (face and arm) 10 days ago, arm symptoms ongoing

RISK FACTORS: NIIDM (tablet) and past smoker (50 year ago)

RIGHT SIDE

Common carotid artery (RCCA) mild 94/12cm/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) irregular heterogeneous plaque at origin <50% (95/18cm/s R1 <2 and R2<8)

External carotid artery (RECA) mild 106/0cm/s

Vertebral artery (RVert) normal 51/6cm/s

Subclavian artery (RSubc) normal 133cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) mild 105/12cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) mild (86/14cm/s R1 <2 and R2<8)

External carotid artery (LECA) mild 122/0cm/s

Vertebral artery (LVert) normal 103/14cm/s

Subclavian artery (LSub) normal 165cm/s

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

SUMMARY LEFT SIDE: mild atheroma in the extracranial carotid arteries

Scanned by: Kate Houghton, Senior Clinical Vascular Scientist

Maximum peak systolic velocity (PSV) and end diastolic velocity (EDV) measurements, along with ICApsv/CCApv (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:

SYMPTOMS: short episode of speech disturbance noticed by husband 3 days ago. Lasting <5seconds. Previous TIA post cardiac op in 2020.

RISK FACTORS: HTN only.

Not in sinus rhythm.

RIGHT SIDE

Common carotid artery (RCCA) normal 49/13cm/s

Carotid bifurcation (RBif) normal

Internal carotid artery (RICA) normal (80/39cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 57/5cm/s

Vertebral artery (RVert) normal 28/8cm/s

Subclavian artery (RSubc) normal 88cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) normal 64/19cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) mild (63/18cm/s R1 <2 and R2<8)

External carotid artery (LECA) normal 84/8cm/s

Vertebral artery (LVert) normal 35/0cm/s

Subclavian artery (LSub) normal 122cm/s

COMMENTS: abnormal heart rhythm

SUMMARY RIGHT SIDE: normal extracranial carotid arteries. No change from duplex Sept 2020

SUMMARY LEFT SIDE: mild extracranial carotid arteries. No change from duplex Sept 2020

Scanned by: Kate Houghton, Senior Clinical Vascular Scientist

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

CAROTID DUPLEX:

SYMPTOMS: intermittent left sided weakness for 23 years. Most recent episode presented with dizziness.

RISK FACTORS: none

RIGHT SIDE

Common carotid artery (RCCA) normal 127/21cm/s

Carotid bifurcation (RBif) normal

Internal carotid artery (RICA) normal (85/27cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 121/8cm/s

Vertebral artery (RVert) normal 58/12cm/s

Subclavian artery (RSubc) normal 187cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) normal 135/15cm/s

Carotid bifurcation (LBif) normal

Internal carotid artery (LICA) normal (95/30cm/s R1 <2 and R2<8)

External carotid artery (LECA) normal 122/12cm/s

Vertebral artery (LVert) normal 65/12cm/s

Subclavian artery (LSub) normal 221cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned by: Kate Houghton, Senior Clinical Vascular Scientist

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

Any queries please contact Vascular Science on 0117 34 27530.

CAROTID DUPLEX:

SYMPTOMS: Cardiac Pre-op (31/7/21). Previous right carotid endarterectomy (2012).

RISK FACTORS: Previous stroke (2010 and 2011) and HTN

RIGHT SIDE

Common carotid artery (RCCA) mild 106/19 cm/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) patent endarterectomy site with mild atheroma (70/19 cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 175/22 cm/s

Vertebral artery (RVert) normal 54/15 cm/s

Subclavian artery (RSubc) normal 158/0 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) mild 112/17 cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) mild (119/19 cm/s R1 <2 and R2<8)

External carotid artery (LECA) stenosed 348/25 cm/s

Vertebral artery (LVert) normal 52/10 cm/s

Subclavian artery (LSub) normal 228/0 cm/s

Comments: Challenging scan due to respiration.

SUMMARY RIGHT SIDE: patent endarterectomy site, mild atheroma in the extracranial carotid arteries.

SUMMARY LEFT SIDE: mild atheroma in the internal carotid artery. Stenosed ECA.

Scanned by: S. Halliwel (Junior Clinical Vascular Scientist) and K. Houghton (Senior Clinical Vascular Scientist)

CAROTID DUPLEX:

SYMPTOMS: Bilateral vertical lines in both eyes yesterday.

RISK FACTORS: HTN, Previous smoker (Stopped 20+ years ago)

Patient not in sinus rhythm

RIGHT SIDE

Common carotid artery (RCCA) mild 64/10 cm/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) small irregular plaque at origin <50% (68/20 cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 55/0 cm/s

Vertebral artery (RVert) normal 34/11 cm/s

Subclavian artery (RSubc) normal 75 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) mild 67/13 cm/s

Carotid bifurcation (LBif) moderate

Internal carotid artery (LICA) small irregular calcified plaque at origin <50% (87/21 cm/s R1 <2 and R2<8)

External carotid artery (LECA) mild 84 cm/s

Vertebral artery (LVert) normal 84/18 cm/s

Subclavian artery (LSub) normal 88 cm/s

COMMENTS: abnormal heart rhythm

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

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

Scanned by: K Houghton, Senior Clinical Vascular Scientist

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

CAROTID DUPLEX:

SYMPTOMS: Episode yesterday of bilateral double vision and dizziness.

RISK FACTORS: Previous CVA, HTN

Patient in sinus rhythm

RIGHT SIDE

Common carotid artery (RCCA) normal 82/9 cm/s

Carotid bifurcation (RBif) normal

Internal carotid artery (RICA) kink causing a focal stenosis 170/28 cm/s approx 2.2 cm from the origin. The ICA appears free from atheroma throughout the imaged section. Images available on PACS.

External carotid artery (RECA) normal 90/8 cm/s

Vertebral artery (RVert) normal 34/6 cm/s

Subclavian artery (RSubc) normal 118 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) normal 62/8 cm/s

Carotid bifurcation (LBif) normal

Internal carotid artery (LICA) normal (45/10 cm/s R1 <2 and R2 <8)

External carotid artery (LECA) normal 140/7 cm/s

Vertebral artery (LVert) normal 42/8 cm/s

Subclavian artery (LSub) normal 81 cm/s

SUMMARY RIGHT SIDE: Kink of the ICA causing a focal stenosis, the ICA appears free from atheroma. Consistent with duplex findings June '17 at RUH.

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned by: K Houghton, Senior Clinical Vascular Scientist

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:

SYMPTOMS: LEFT hand weakness yesterday. Not resolved.

RISK FACTORS: HTN, past smoker (stopped 10 years ago)

Patient in sinus rhythm

RIGHT SIDE

Common carotid artery (RCCA) normal 53/12 cm/s

Carotid bifurcation (RBif) normal

Internal carotid artery (RICA) normal (46/15 cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 55/7 cm/s

Vertebral artery (RVert) normal 32/13 cm/s

Subclavian artery (RSubc) normal 77 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) normal 59/14 cm/s

Carotid bifurcation (LBif) normal

Internal carotid artery (LICA) normal (49/16 cm/s R1 <2 and R2<8)

External carotid artery (LECA) normal 81/13 cm/s

Vertebral artery (LVert) normal 52/14 cm/s

Subclavian artery (LSub) normal 108 cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned by: Kate Houghton, Senior Clinical Vascular Scientist

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:

SYMPTOMS: 15.06.2021, Episode of double vision followed by speech disturbance lasting 4 minutes

RISK FACTORS: HTN

Patient in sinus rhythm

RIGHT SIDE

Common carotid artery (RCCA) normal 75/24 cm/s

Carotid bifurcation (RBif) normal

Internal carotid artery (RICA) normal (66/21 cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 60/10 cm/s

Vertebral artery (RVert) normal 23/6 cm/s

Subclavian artery (RSubc) normal 76/0 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) normal 69/23 cm/s

Carotid bifurcation (LBif) normal

Internal carotid artery (LICA) normal (66/22 cm/s R1 <2 and R2<8)

External carotid artery (LECA) normal 43/8 cm/s

Vertebral artery (LVert) normal 55/14 cm/s

Subclavian artery (LSub) normal 113 cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned by: K Houghton, Senior Clinical Vascular Scientist

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:

SYMPTOMS: three episodes of expressive dysphagia, (18 months ago; 6 months ago; 3months ago).

RISK FACTORS: None reported

Patient not in Sinus Rhythm

RIGHT SIDE

Common carotid artery (RCCA) mild 55/14 cm/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) normal (59/22 cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 89/12 cm/s

Vertebral artery (RVert) normal 45/14 cm/s

Subclavian artery (RSubc) normal 115 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) mild 61/17 cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) normal (59/22 cm/s R1 <2 and R2<8)

External carotid artery (LECA) normal 67/ 7 cm/s

Vertebral artery (LVert) normal 26/6 cm/s

Subclavian artery (LSub) normal 118 cm/s

Comments: abnormal heart rhythm noted.

SUMMARY RIGHT SIDE: mild extracranial carotid arteries

SUMMARY LEFT SIDE: mild extracranial carotid arteries

Scanned by: K Houghton, Senior Clinical Vascular Scientist

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/V_S grading recommendations and NASCET criteria.

CAROTID DUPLEX:

SYMPTOMS: LOC 4 days ago. Recurrent episodes over the last few years of blurred vision in the left eye lasting between 1 - 15 minutes. These episodes have been more frequent in the last 4 days.

RISK FACTORS: Previous HTN,
Patient in sinus rhythm

RIGHT SIDE

Common carotid artery (RCCA) normal 69/11 cm/s

Carotid bifurcation (RBif) normal

Internal carotid artery (RICA) small irregular plaque at origin <50% (91/16 cm/s R1 <2 and R2: 8) R2:8 however Bmode, PSV and R1 all indicate <50%.

External carotid artery (RECA) normal 84/6 cm/s

Vertebral artery (RVert) normal 46/11 cm/s

Subclavian artery (RSubc) normal 84 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) mild 86/12 cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) mild (84/22 cm/s R1 <2 and R2<8)

External carotid artery (LECA) normal 88/5 cm/s

Vertebral artery (LVert) normal 34/7 cm/s

Subclavian artery (LSub) normal 83 cm/s

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

SUMMARY LEFT SIDE: mild atheroma in the extracranial carotid arteries

Scanned by: K Houghton, Senior Clinical Vascular Scientist

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:

SYMPTOMS: Tingling and numbness in right arm and hand on 16/06/2021 lasting 12 hours

RISK FACTORS: Past Smoker (stopped 23 years ago)

Patient in Sinus Rhythm

RIGHT SIDE

Common carotid artery (RCCA) normal 99/29 cm/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) mild (78/27 cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 84/11 cm/s

Vertebral artery (RVert) normal 31/10 cm/s

Subclavian artery (RSubc) normal 106 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) normal 109/30 cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) mild (94/31 cm/s R1 <2 and R2<8)

External carotid artery (LECA) normal 92/15 cm/s

Vertebral artery (LVert) normal 41/12 cm/s

Subclavian artery (LSub) normal 151 cm/s

SUMMARY RIGHT SIDE: mild extracranial carotid arteries

SUMMARY LEFT SIDE: mild extracranial carotid arteries

Scanned by: K Houghton, Senior Clinical Vascular Scientist

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

CAROTID DUPLEX:

SYMPTOMS: Episode of expressive dysphasia lasting 2 hours, 2 weeks ago.

RISK FACTORS: Previous MI, HTN, IDDM, past smoker.

RIGHT SIDE

Common carotid artery (RCCA) normal 75/10 cm/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) mild (52/11 cm/s R1 <2 and R2<8)

External carotid artery (RECA) mild 54/5 cm/s

Vertebral artery (RVert) normal 30/5 cm/s

Subclavian artery (RSubc) normal 140 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) normal 63/12 cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) mild (93/18 cm/s R1 <2 and R2<8)

External carotid artery (LECA) stenosed 226/15 cm/s

Vertebral artery (LVert) normal 58/12 cm/s

Subclavian artery (LSub) normal 80 cm/s

SUMMARY RIGHT SIDE: mild atheroma in the extracranial carotid arteries

SUMMARY LEFT SIDE: mild atheroma in the internal carotid artery. Stenosed external carotid artery.

Scanned by: K Houghton, Senior Clinical Vascular Scientist

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.

Any queries please contact Vascular Science on 0117 34 27530.

CAROTID DUPLEX:

SYMPTOMS: Bilateral vision disturbance and dizziness 1 day ago, now resolved

RISK FACTORS: Current smoker (15/day)

RIGHT SIDE

Common carotid artery (RCCA) normal 96/24 cm/s

Carotid bifurcation (RBif) normal

Internal carotid artery (RICA) normal (67/26 cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 89/21 cm/s

Vertebral artery (RVert) normal 39/9 cm/s

Subclavian artery (RSubc) normal 108 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) normal 81/18 cm/s

Carotid bifurcation (LBif) normal

Internal carotid artery (LICA) mild (58/25 cm/s R1 <2 and R2<8)

External carotid artery (LECA) normal 74/14cm/s

Vertebral artery (LVert) normal 37/10 cm/s

Subclavian artery (LSub) normal 129 cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: mild ICA, otherwise normal extracranial carotid arteries

Scanned by: K Houghton, Senior Clinical Vascular Scientist

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

Any queries please contact Vascular Science on 0117 34 27530.

CAROTID DUPLEX:

SYMPTOMS: woke up with LEFT hand weakness 5 days go. Improving but ongoing.

RISK FACTORS: None - no IHD, DM, HTN or smoking.

Under cardiac team for cardiac arrhythmia

RIGHT SIDE

Common carotid artery (RCCA) normal 92/21cm/s

Carotid bifurcation (RBif) normal

Internal carotid artery (RICA) normal (81/24cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 90/12cm/s

Vertebral artery (RVert) normal 33/10 cm/s

Subclavian artery (RSubc) normal 102cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) normal 101/28cm/s

Carotid bifurcation (LBif) normal

Internal carotid artery (LICA) normal (89/22cm/s R1 <2 and R2<8)

External carotid artery (LECA) normal 103/10cm/s

Vertebral artery (LVert) normal 56/18cm/s

Subclavian artery (LSub) normal 152cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned by: Kate Houghton - senior vascular scientist

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.

Any queries please contact Vascular Science on 0117 34 27530.

CAROTID DUPLEX:

SYMPTOMS: 2 day history of LEFT sided weakness. History of TIA with similar symptoms

RISK FACTORS: TIA, MI, angina, NIDDM (diet) HTN

RIGHT SIDE

Common carotid artery (RCCA) normal 71/23cm/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) mild (67/21cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 53/0cm/s

Vertebral artery (RVert) normal 40/14cm/s

Subclavian artery (RSubc) normal 93cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) normal 58/18cm/s

Carotid bifurcation (LBif) normal

Internal carotid artery (LICA) normal (53/22cm/s R1 <2 and R2<8)

External carotid artery (LECA) normal 54/0cm/s

Vertebral artery (LVert) normal 59/25cm/s

Subclavian artery (LSub) normal 115cm/s

SUMMARY RIGHT SIDE: mild extracranial carotid arteries

SUMMARY LEFT SIDE: normal extracranial carotid arteries

Scanned in the chair in quantock OPs by: Kate Houghton, senior vascular scientist

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

Any queries please contact Vascular Science on 0117 34 27530.

CAROTID DUPLEX:

SYMPTOMS: LOC 3 days ago. Blackouts and dizziness with mild right sided weakness since.

RISK FACTORS: past smoker (stopped 6w ago). No IHD, DM or HTN.

RIGHT SIDE

Common carotid artery (RCCA) normal 100/25cm/s

Carotid bifurcation (RBif) normal

Internal carotid artery (RICA) normal (89/25cm/s R1 <2 and R2<8)

External carotid artery (RECA) normal 94/21cm/s

Vertebral artery (RVert) normal 25/8cm/s

Subclavian artery (RSubc) normal 168cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) normal 108/29cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) normal (65/23cm/s R1 <2 and R2<8)

External carotid artery (LECA) normal 74/15cm/s

Vertebral artery (LVert) normal 43/12cm/s

Subclavian artery (LSub) normal 170cm/s

SUMMARY RIGHT SIDE: normal extracranial carotid arteries

SUMMARY LEFT SIDE: mild extracranial carotid arteries

Scanned in quantock QPs by: Kate Houghton - senior vascular scientist

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.

Any queries please contact Vascular Science on 0117 34 27530.

CAROTID DUPLEX:

SYMPTOMS: 6/7 history of ongoing right arm and leg weakness

RISK FACTORS: HTN, IDDM - tablets and insulin, current smoker (12/day)

RIGHT SIDE

Common carotid artery (RCCA) mild 77/8 cm/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) small homogeneous plaque at the origin <50% (55/13 cm/s R1 <2 and R2<8)

External carotid artery (RECA) mild 105/0 cm/s

Vertebral artery (RVert) poor views 21/0 cm/s

Subclavian artery (RSubc) normal 74/0 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) mild 71/10 cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) small homogeneous plaque at the origin <50% (78/18 cm/s R1 <2 and R2<8)

External carotid artery (LECA) mild 78/0 cm/s

Vertebral artery (LVert) normal 41/8 cm/s

Subclavian artery (LSub) normal 131/0 cm/s

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

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

Scanned by: K Houghton - Senior Vascular Scientist

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.

Any queries please contact Vascular Science on 0117 34 27530.

CAROTID DUPLEX:

SYMPTOMS: 5/7 history of ongoing right sided weakness and slurred speech

RISK FACTORS: Current smoker - yape

No reported HTN, DM, MI, angina, RF history

RIGHT SIDE

Common carotid artery (RCCA) mild 63/14 cm/s

Carotid bifurcation (RBif) mild

Internal carotid artery (RICA) small calcified plaque at the origin <50% (78/26 cm/s R1 <2 and R2<8)

External carotid artery (RECA) mild 80/8 cm/s

Vertebral artery (RVert) normal 42/16 cm/s

Subclavian artery (RSubc) normal 200/11 cm/s

Brachiocephalic artery (BCA) normal

LEFT SIDE

Common carotid artery (LCCA) mild 73/18cm/s

Carotid bifurcation (LBif) mild

Internal carotid artery (LICA) small calcified plaque at the origin <50 (82/21cm/s R1 <2 and R2<8)

External carotid artery (LECA) mild 101/12 cm/s

Vertebral artery (LVert) normal 34/10 cm/s

Subclavian artery (LSub) normal 233/0 cm/s

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

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

Scanned by: K. Houghton, Senior Vascular Scientist

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

Any queries please contact Vascular Science on 0117 34 27530.