

Assessed By: Emily Blake (CVS)

VASCULAR LAB REPORT

| | |
|---|---|
| <p>N [Redacted]</p> <p>C [Redacted]</p> | <p>[Redacted]</p> |
| <p>Outpatient/Inpatient: IP</p> | <p>Date of Exam: 08/02/2019</p> <p>Clinical Indications: pt with visual loss for 5mins , currently treated as TIA , please kindly do Doppler on 8/2/19 morning as pt can go home in afternoon</p> |

Duplex Examination of the Carotid Arteries

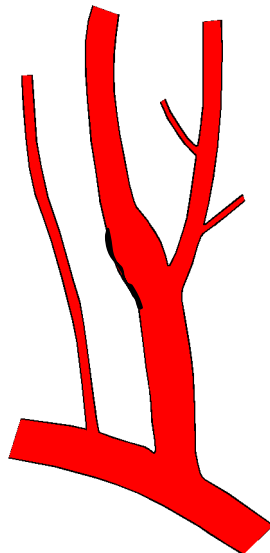
RIGHT

Internal: Patent no significant stenosis

External: Patent no significant stenosis

Common: Patent no significant stenosis

Vertebral: Patent antegrade flow



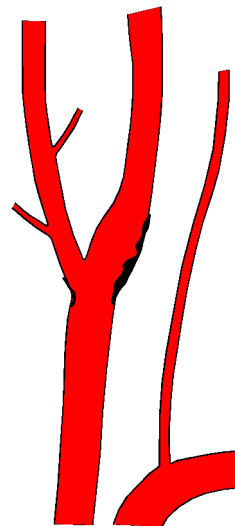
LEFT

Internal: Patent no significant stenosis

External: Patent no significant stenosis

Common: Patent no significant stenosis

Vertebral: Patent antegrade flow detected



There is unfurling on the proximal CCA bilaterally (vessels are tortuous and superficial).

RIGHT:

The Common (CCA), Internal (ICA) and External (ECA) carotid arteries are patent with no haemodynamically significant stenosis detected. Mild atheroma noted within the ICA.

ICA Peak Systolic Velocity (PSV) = 0.56m/sec

ICA End Diastolic Velocity (EDV) = 0.17m/sec.

The Vertebral artery is patent with antegrade blood flow detected.

LEFT:

The Common (CCA), Internal (ICA) and External (ECA) carotid arteries are patent with no haemodynamically significant stenosis detected. Mild to moderate amount of mixed echogenicity atheroma noted within the ICA.

ICA Peak Systolic Velocity (PSV) = 0.39m/sec.

ICA End Diastolic Velocity (EDV) = 0.12m/sec.

The Vertebral artery is patent with antegrade blood flow detected.

CONCLUSION:

Patent carotid and vertebral arteries with no haemodynamically significant stenosis detected bilaterally.

| Percentage Stenosis (NASCET) | ICA peak systolic velocity cm/sec | Peak Systolic velocity ratio ICA_{PSV}/CCA_{PSV} | St Mary's Ratio ICA_{PSV}/CCA_{EDV} |
|----------------------------------|-----------------------------------|---|--|
| <50 | <125 | <2 | <8 |
| 50-59 | >125 | 2-4 | 8-10 |
| 60-69 | | | 11-13 |
| 70-79 | >230 | >4 | 14-21 |
| 80-89 | | | 22-29 |
| >90 but less than near occlusion | >400 | >5 | >30 |
| Near occlusion | High, low-string flow | Variable | Variable |
| Occlusion | No flow | Not applicable | Not applicable |

NB: The St Mary's Ratio should be disregarded in the case where it is the only measure to indicate greater than 70% stenosis and the CCA EDV is less than 8cm/sec⁽²⁾.

C. P Oates et al