

Assessed By: Emily Blake (CVS)

VASCULAR LAB REPORT

Name:

Number:  
Patients D

Cons:

Date of Exam: 22/02/2019

Outpatient/Inpatient: Outpatient

Clinical Indications: Episode of vertigo and veering to LT ? L VA stenosis.

### Duplex Examination of the Carotid Arteries

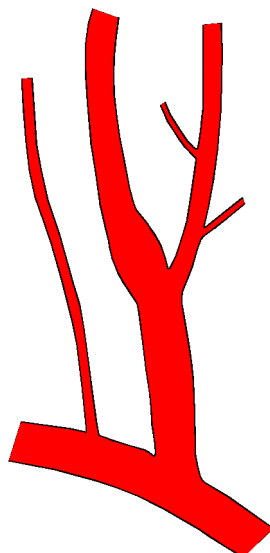
#### RIGHT

**Internal:** Patent no significant stenosis

**External:** Patent no significant stenosis

**Common:** Patent no significant stenosis

**Vertebral:** Patent antegrade flow



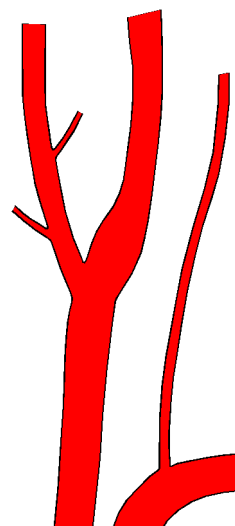
#### LEFT

**Internal:** Patent no significant stenosis

**External:** Patent no significant stenosis

**Common:** Patent no significant stenosis

**Vertebral:** Patent antegrade flow detected



There is unfurling of the rt brachiocephalic and both proximal common carotid arteries (these vessels are superficial and tortuous). The ICA are tortuous bilaterally just a short distance from the origin and dive deep.

#### RIGHT:

The Common (CCA), Internal (ICA) and External (ECA) carotid arteries are patent with no stenosis detected. No intimal thickening.

ICA Peak Systolic Velocity (PSV) = 0.42m/sec

ICA End Diastolic Velocity (EDV) = 0.16m/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 stenosis detected. No intimal thickening.

ICA Peak Systolic Velocity (PSV) = 0.30m/sec.

ICA End Diastolic Velocity (EDV) = 0.11m/sec.

The Vertebral artery is patent with antegrade blood flow detected.

#### CONCLUSION:

Patent carotid and vertebral arteries with no stenosis detected bilaterally.

Percentage Stenosis (NASCET)	ICA peak systolic velocity cm/sec	Peak Systolic velocity ratio ICA <sub>PSV</sub> /CCA <sub>PSV</sub>	St Mary's Ratio ICA <sub>PSV</sub> /CCA <sub>EDV</sub>
<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<sup>(2)</sup>.

*C. P Oates et al*