

**CAROTID DUPLEX CONCLUSION**  
**VASCULAR LAB REPORT****RIGHT****EXTRACRANIAL CAROTID AND VERTEBRAL ARTERY ASSESSMENT**

**Internal carotid (ICA) = 70-89% ICA origin stenosis, with mixed echogenic plaque seen indicative of a mixture of soft and calcified atheroma**

**External carotid (ECA) = 275cm/sec at the origin, elevated velocities suggestive of**

**Common carotid (CCA) = 82cm/sec**

**Vertebral artery (VA) = Antegrade flow**

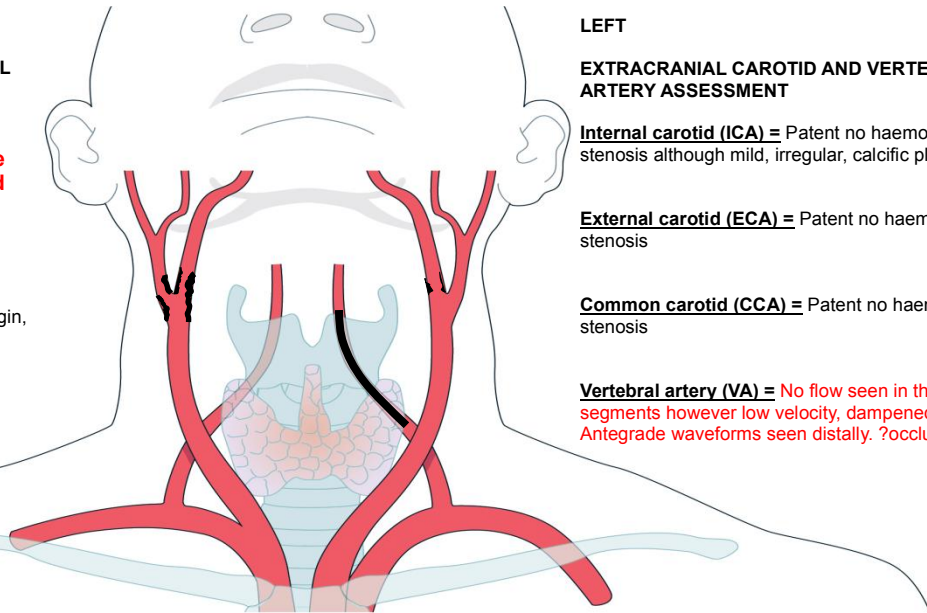
**LEFT****EXTRACRANIAL CAROTID AND VERTEBRAL ARTERY ASSESSMENT**

**Internal carotid (ICA) = Patent no haemodynamic stenosis although mild, irregular, calcific plaque**

**External carotid (ECA) = Patent no haemodynamic stenosis**

**Common carotid (CCA) = Patent no haemodynamic stenosis**

**Vertebral artery (VA) = No flow seen in the proximal segments however low velocity, dampened monophasic Antegrade waveforms seen distally. ?occlusion**



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**Report: Velocities for grading stenoses****RIGHT:**

ICA Peak Systolic Velocity (PSV) = 326cm/sec  
ICA End Diastolic Velocity (EDV) = 55cm/sec  
CCA Peak Systolic Velocity (PSV) = 82cm/sec  
CCA End Diastolic Velocity (EDV) = 12cm/sec

$ICA_{PSV}/CCA_{PSV} = 3.98$

$ICA_{PSV}/CCA_{EDV}$  (St. Marys ratio) = 27

**LEFT:**

ICA Peak Systolic Velocity (PSV) = 92cm/sec  
ICA End Diastolic Velocity (EDV) = 20cm/sec

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