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| **LEFT**  **EXTRACRANIAL CAROTID AND VERTEBRAL ARTERY ASSESSMENT**  Internal carotid (ICA) = **70-79% stenosis, irregular calcific atheroma, signal loss.**  External carotid (ECA) = No significant stenosis  Common carotid (CCA) = No significant stenosis  Vertebral artery (VA) = **Antegrade flow**  **RIGHT**  **EXTRACRANIAL CAROTID AND VERTEBRAL ARTERY ASSESSMENT**  Internal carotid (ICA) = **50-59% stenosis calcific atheroma signal loss.**  External carotid (ECA) = No significant stenosis  Common carotid (CCA) = No significant stenosis  Vertebral artery (VA) = **Antegrade flow** | | |
| Report:  **US Doppler carotid artery Both:**  **RIGHT:**  The Common (CCA), External (ECA) Carotid arteries are all patent with no significant stenosis detected. Calcific atheroma is noted in the proximal ICA and bulb. Due to signal loss an accurate grading of stenosis is difficult. However, a 50-59% haemodynamic stenosis is noted.  ICA PSV= 125cm/s  ICA EDV= 56cm/s  The vertebral artery is patent with antegrade flow demonstrated. | | |
| **LEFT:**  The Common (CCA), External (ECA) Carotid arteries are all patent with no significant stenosis detected. A 2.7cm segment of calcific atheroma is noted causing acoustic shadowing and signal loss. A max PSV of 271cm/s with a PSVR of 5.5 is noted suggesting a 70-79% haemodynamic stenosis. However, accurate grading of stenosis is difficult due to limitations.    ICA PSV= 271cm/s  ICA EDV= 76cm/s  Suggest further imaging to assess carotid arteries. | | |