**Countess of Chester Hospital** 

NHS Foundation Trust

The Countess of Chester Health Park

Liverpool Road

Chester

CH2 1UL

Study Description: **US Doppler carotid artery Both** Study Date: **07/03/2023**

**Indication:**

4x of very blurred vision lasting 3-4 hours each

**Report:**

**CAROTID DUPLEX SCAN**

**RIGHT**

Subclavian artery: Patent proximally with triphasic waveforms, PSV 72cm/s.

Common Carotid Artery (CCA): Patent. No evidence of any plaque morphology identified.

PSV 78cm/s EDV 9cm/s

Bifurcation: Patent. Smooth mixed plaques forming a <30% reduction in diameter.

Internal Carotid Artery (ICA): Patent. No evidence of any plaque morphology identified in the proximal ICA. Unable to visualize the distal ICA due high bifurcation, however waveforms in the proximal ICA are low resistance suggesting distal patency.

PSV 66cm/s EDV 13cm/s

External Carotid Artery (ECA): Patent. Smooth mixed plaques forming a <30% reduction in diameter.

PSV 146cm/s

Vertebral Artery Flow (VA): Patent where seen, with open and orthograde flow.

PSV 31cm/s

**LEFT**

Subclavian artery: Patent proximally with triphasic waveforms, PSV 158cm/s.

Common Carotid Artery (CCA): Patent. Smooth mixed plaques forming a <30% reduction in diameter.

PSV 79cm/s EDV 22cm/s

Bifurcation: Patent. No evidence of any plaque morphology identified.

Internal Carotid Artery (ICA): Patent. No evidence of any plaque morphology identified in the proximal ICA. Unable to visualize the distal ICA due high bifurcation, however waveforms in the proximal ICA are low resistance suggesting distal patency.

PSV 48cm/s EDV 13cm/s

External Carotid Artery (ECA): Patent. No evidence of any plaque morphology

PSV 134cm/s

Vertebral Artery Flow (VA): Appears small in caliber compared to the right VA (see below) where seen appear patent with open and orthograde flow. Waveforms appear high in resistance ? Due to small caliber of vessel or distal disease. Suggest alternative imaging to exclude distal disease.

PSV 27cm/s

Right VA LS plane AP: 0.65cm

Left VA LS plane AP:0.17

**Conclusion**

**No evidence of significant carotid disease bilaterally.**

**The left VA appears smaller than the right, left VA demonstrates high in resistance waveforms ? Due to small calibre of vessel or distal disease. Suggest alternative imaging to exclude distal disease.**

**Priority:++ Significant or Unexpected Finding ++**

**Reported by:**

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Clinical Vascular Scientist

Countess Of Chester Nhs Trust

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