**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: **09/05/2023**

**Indication:**

left face and arm weakness

**Report:**

**CAROTID DUPLEX SCAN**

**RIGHT**

Subclavian artery: Patent proximally with turbulent biphasic waveforms, PSV 178cm/s.

Common Carotid Artery (CCA): Patent. Intima thickening forming a <30% reduction in diameter.

PSV 54cm/s EDV 14cm/s

Bifurcation and ICA: Patent. Dense and calcified plaques identified in the right carotid bifurcation and origin of the internal carotid artery. Disease obscures both vessels for a length of ~1.1cm. Flow, where seen in the proximal ICA distal to obscured region is indicative of a 50-59% stenosis, however unable to exclude a greater degree of stenosis within obscured region. The mid-distal ICA appears patent.

External Carotid Artery (ECA): Patent. Dense and calcified disease appear to from a stenosis >50%, based on velocities.

PSV 217cm/s

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

PSV 46cm/s

**LEFT**

Subclavian artery: Patent proximally with turbulent biphasic waveforms, PSV 153cm/s.

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

PSV 93cm/s EDV 21cm/s

Bifurcation: Patent. Dense and calcified plaques forming a <50% stenosis.

Internal Carotid Artery (ICA): Patent. Dense and calcified plaques forming a <50% stenosis identified in the proximal ICA. Distal ICA appears patent.

PSV 72cm/s EDV 15cm/s

External Carotid Artery (ECA): Patent. Dense and calcified plaques forming a <40% stenosis.

PSV 119cm/s

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

PSV 60cm/s

**Conclusion**

**Dense and calcified plaques identified in the right carotid bifurcation and origin of the internal carotid artery. Disease obscures both vessels for a length of ~1.1cm. Flow, where seen in the proximal ICA distal to obscured region is indicative of a 50-59% stenosis, however unable to exclude a greater degree of stenosis within obscured region. Suggest alternative imaging.**

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

**Antegrade flow in the right and left vertebral arteries.**

**Suggest vascular surgical opinion**

**Additional comment: TIA clinic informed of significant results.**

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

**Reported by:**

Nia Steeves

Clinical Vascular Scientist

Countess Of Chester Nhs Trust

Final Date & Time: 09/05/2023 16:26:10