**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: **21/04/2023**

**Indication:**

GP referral. Incidental finding of occluded right CCA in Uss of neck. Long standing dizziness. Please scan both carotids.

**Report:**

**CAROTID DUPLEX SCAN**

**RIGHT**

Subclavian artery: Patent proximally with good tri/biphasic waveforms, PSV 133cm/s.

Common Carotid Artery (CCA): The CCA appears occluded along its length from its origin, with what appears like echolucent and mixed thrombus. No colour flow or PWV detected.

Bifurcation: Patent. Appears occluded with what appears like echolucent and mixed thrombus. No colour flow or PWV detected.

Internal Carotid Artery (ICA): Patent. The ICA appears occluded from its origin to the visualised distal segment, with what appears like mixed thrombus. No colour flow or PWV detected.

External Carotid Artery (ECA): Appears occluded at its origin with what appears like mixed thrombus. Colour flow noted in the proximal ECA, with a reduced low resistance waveforms ? Flow reforming via a collateral vessel supply.

Vertebral Artery Flow (VA): Patent from its origin, with open and orthograde flow.

PSV 67cm/s

**LEFT**

Subclavian artery: Patent proximally with good triphasic waveforms, PSV 74cm/s.

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

PSV 74cm/s EDV 21cm/s

Bifurcation: Patent. Mixed and dense plaque forming a <30% reduction in diameter.

Internal Carotid Artery (ICA): Patent. Mixed and dense plaque forming a <30% reduction in diameter identified in the proximal ICA. The distal ICA appears patent.

PSV 85cm/s EDV 35cm/s

External Carotid Artery (ECA): Patent. Mixed and dense plaque forming a <30% reduction in diameter.

PSV 78cm/s

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

PSV 76cm/s

**Conclusion**

**The right CCA, bifurcation, ICA and origin of the ECA, appears occluded with what appears like echolucent and mixed thrombus.**

**Flow in the right proximal ECA appears to reform? via a collateral vessel supply.**

**No evidence of significant left carotid disease**

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

**Additional comment: Patient has OP apt on 24/4/23.**

**Priority:++ Urgent Finding ++**

**Reported by:**

Nia Steeves

Clinical Vascular Scientist

Countess Of Chester Nhs Trust

Final Date & Time: 21/04/2023 10:16:50