**Countess of Chester Hospital** 

NHS Foundation Trust

The Countess of Chester Health Park

Liverpool Road

Chester

CH2 1UL

Study Description: **US Doppler lower limb arteries Rt** Study Date: **09/05/2023**

**Indication:**

out of range ABPI's, claudication 50/100yds please complete

**Report:**

**BILATERAL LOWER LIMB ARTERIAL DUPLEX SCAN**

**RIGHT**

CFA – Patent with mild dense disease, good triphasic waveforms, PSV 226cm/s. PI 5.33.

PFA (origin) – Patent with good biphasic waveforms, PSV increases from 141cm/s.

SFA – Patent along length, good tri/biphasic waveforms, PSV range 164-122cm/s.

POPA – Patent along length, with good biphasic waveforms, PSV 109-101cm/s.

TPT – Patent with good biphasic waveforms. Three VRO identified.

PTA – Patent along length, good biphasic waveforms, PSV 94-79cm/s.

ATA– Patent along length, good triphasic waveforms, PSV 107-117cm/s.

PerA – Patent along length, good biphasic waveforms, PSV 66-59cm/s.

ABPI Assessment

Resting branchial systolic blood pressure – 154 mmHg

Resting ATA systolic blood pressure – 134 mmHg

Post-exercise PTA systolic blood pressure – 138 mmHg

ABPI rest: 0.9

ABPI post-exercise: 0.9

Resting ABPI was within normal limits, with no significant reduction in systolic ankle pressure observed following a one-minute (foot flexion and extension) exercise challenge.

**RIGHT CONCULSION**

**No evidence of significant arterial disease in the right lower limb.**

**Right resting and post exercise ABPI were within normal limits.**

**LEFT**

CFA – Patent with mild dense disease, good triphasic waveforms, PSV 195cm/s. 3.86

PFA (origin) – Patent with good biphasic waveforms, PSV increases from 108cm/s.

SFA – Patent along length, good tri/biphasic waveforms, PSV range 158-104cm/s.

POPA – Patent along length, with good biphasic waveforms, PSV 80-99cm/s.

TPT – Patent with good biphasic waveforms. Three VRO identified.

PTA – Patent along length, good biphasic waveforms, PSV 55-125cm/s.

ATA– Patent along length, good triphasic waveforms, PSV 78-120cm/s.

PerA – Patent along length, good biphasic waveforms, PSV 61-60cm/s.

ABPI Assessment

Resting branchial systolic blood pressure – 154 mmHg

Resting ATA systolic blood pressure – 140 mmHg

Post-exercise PTA systolic blood pressure – 154 mmHg

ABPI rest: 0.9

ABPI post-exercise: 1.0

Resting ABPI was within normal limits, with no significant reduction in systolic ankle pressure observed following a one-minute (foot flexion and extension) exercise challenge.

**LEFT CONCULSION**

**No evidence of significant arterial disease in the left lower limb.**

**Left resting and post exercise ABPI were within normal limits.**

**Priority:** **++ Routine ++**

**Reported by:**

Nia Steeves

Clinical Vascular Scientist

Countess Of Chester Nhs Trust

Final Date & Time: 09/05/2023 09:05:24