**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 Lt** Study Date: **14/03/2023**

**Indication:**

AF on warfarin, presenting with ? acute b/a/ LL ischemia of tips of toes Hx on heart valve change (Aortic)

**Report:**

**BILATERAL LOWER LIMB ARTERIAL DUPLEX SCAN**

\* Irregular heart rate noted

\*\* Left branchial artery pressure not assessment due to cannulation

**RIGHT**

CFA – Patent with mild mixed disease, good triphasic waveforms, PSV 79cm/s. PI 6.74

PFA (origin) – Patent, good triphasic waveforms, PSV 50cm/s

SFA – Patent along length, good tri/biphasic waveforms, PSV range 75-56cm/s.

POPA – Patent along length, with good triphasic waveforms, PSV 38-64cm/s.

TPT – Patent with good triphasic waveforms, PSV 63cm/s. Three VRO identified.

PTA –Patent along length, good triphasic waveforms, PSV range 94-43cm/s

ATA– Patent along length, good triphasic waveforms, PSV range 64-62cm/s

PerA – Patent along length, good triphasic waveforms, PSV range 47-52cm/s

DP – Limited view, where seen appears patent with biphasic waveforms, PSV 18cm/s.

Resting right branchial systolic blood pressure – 178 mmHg

Resting ATA systolic blood pressure – 184 mmHg

Post-exercise PTA systolic blood pressure – 172 mmHg

ABPI rest: 1.0

ABPI post-exercise (foot flexion and extension) exercise challenge: 0.9

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

**LEFT**

CFA – Patent with mild mixed disease, good triphasic waveforms, PSV 79cm/s. PI 8.53

PFA (origin) – Patent, good biphasic waveforms, PSV 34cm/s

SFA – Patent along length, good tri/biphasic waveforms, PSV range 86-48cm/s.

POPA – Patent along length, with good triphasic waveforms, PSV 72-69cm/s.

TPT – Patent with good triphasic waveforms, PSV 46cm/s. Three VRO identified.

PTA –Patent along length, good triphasic waveforms, PSV range 72-63cm/s

ATA– Patent along length, good triphasic waveforms, PSV range 63-85cm/s

PerA – Patent along length, good triphasic waveforms, PSV range 36-42cm/s

DP – Limited view, where seen appears patent with biphasic waveforms, PSV 22cm/s.

Resting right branchial systolic blood pressure – 178 mmHg

Resting ATA systolic blood pressure – 182 mmHg

Post-exercise PTA systolic blood pressure – 180 mmHg

ABPI rest: 1.0

ABPI post-exercise (foot flexion and extension) exercise challenge: 1.0

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

**CONCULSION**

**No evidence of significant arterial disease identified in the right or left lower limbs.**

**Right and left ABPI is within normal at rest and post-exercise.**

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

**Reported by:**

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Clinical Vascular Scientist

Countess Of Chester Nhs Trust

Final Date & Time: 14/03/2023 13:45:09