

**Clinical Measurement Services**  
**UNIVERSITY HOSPITALS OF DERBY & BURTON NHS FOUNDATION TRUST**  
**Vascular Ultrasound Report**

ARTERIAL STUDY - LOWER LIMB

Name:		Date of Test:	05/07/2021 09:46:27
Hospital Number:		Test Number:	3134088
Date of Birth:		Technician:	HEUGIL
Ordering Doctor:	DR DAVID SIMON HUGHES	Dept/Ward:	Derby OPD

**Symptoms and Surgical Procedures**

**Doppler Pressures**

**At Rest**

Brachial mmHg  
Right DP mmHg Left DP mmHg  
Right PT mmHg Left PT mmHg

**After Exercise**

Brachial mmHg  
Right DP mmHg Left DP mmHg  
Right PT mmHg Left PT mmHg

**Arterial Arm Dopplers**

Brachial Right : mmHg Left: mmHg  
Radial Right: mmHg Left: mmHg  
Ulna Right: mmHg Left: mmHg

Clinical presentation: Patient wheelchair bound. No rest pain. Painful ulcers to lateral aspect of foot for ~4 weeks. Diabetic (3-4yrs). Non-smoker.

*\*Challenging assessment due to patient movement throughout scan and limited mobility\**

**Left lower limb**

\*All vessel walls are heavily calcified throughout.

CFA: Patent with no significant arterial disease seen, triphasic waveforms, PSV 0.88m/s.

PFA: Patent at origin with no significant arterial disease seen proximally, triphasic waveforms, PSV 0.72m/s.

SFA: Patent. No significant arterial disease seen. Bi/triphasic waveforms throughout, PSVs: proximal 0.48m/s, mid 0.51m/s, distal 0.64m/s. The vessel is patent throughout the adductor canal.

POPA: Patent. No significant arterial disease seen. Bi/triphasic waveforms, PSVs: proximal 0.38m/s, distal 0.39m/s.

TPT: Patent with no significant arterial disease seen.

**Crural arteries**

PTA: Intermittent colour-filling noted throughout due to heavily calcification. Where seen, the proximal vessel is patent with biphasic waveforms. **There is a >75% stenosis in the mid vessel with velocities increasing from PSV 0.37m/s to PSV 2.40m/s.** The distal vessel is patent with hyperaemic waveforms, PSV 0.31m/s. **Vessel is occluded at the ankle.**

ATA: Intermittent colour-filling noted throughout due to heavy calcification, where seen vessel is patent with no significant disease seen. Triphasic waveforms throughout, distal PSV 0.80m/s.

PEROA: No flow visualised in the proximal vessel ?due to ultrasound drop-out. The mid vessel is patent but heavily calcified. No flow is visualised at the ankle ?due to ultrasound drop-out.

ABPI not performed due to crural vessel calcification.

**Summary: >75% PTA stenosis. Distal PTA occlusion. Calcified vessels.**

Reporter: Miss Heulwen Gilbert