

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

ARTERIAL STUDY - LOWER LIMB

Name:	Date of Test:	17/08/2021 04:01:30
Hospital Number:	Test Number:	3189456
Date of Birth:	Technician:	HEUGIL
Ordering Doctor:	DARREN 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: Diabetic (10yrs), Ex smoker (quit 34yr ago). No claudication or rest pain. Ulcers on heel and toes - slowly healing.

Left lower limb

CFA: Patent with mild, mixed atheroma on the posterior wall, triphasic waveforms, PSV= 1.19m/s.

PFA: Patent at origin with no significant arterial disease seen proximally.

SFA: Patent with mild calcification throughout. Triphasic waveforms throughout, PSVs: proximal = 0.93m/s, mid = 0.81m/s, distal = 1.02m/s. The vessel is patent throughout the adductor canal.

POPA: Patent with mild calcification throughout. Triphasic waveforms, PSVs: proximal = 1.06m/s, distal = 0.57m/s.

TPT: There is a 75-99% stenosis with velocities increasing from PSV= 0.58m/s to 2.69m/s, total length of stenosis is ~ 0.6cm.

Crural arteries

PTA: Calcified with no flow identified using Colour or Spectral Doppler in the proximal to mid vessel ?

occlusion. Flow appears to reform in the distal vessel with damped monophasic waveforms, PSV=0.77m/s.

ATA: Patent at origin with pulsatile monophasic waveforms, PSV= 0.23m/s. The vessel occludes for a short segment proximally, flow reforms via a collateral with damped monophasic waveforms, PSV= 0.10m/s. **There is a 50-74% stenosis in the distal vessel with velocities increasing from PSV 0.22m/s to PSV 0.50m/s.**

PEROA: **There is a 75-99% stenosis in the proximal vessel, with velocities increasing from PSV 0.61m/s to 4.04m/s.** Vessel is difficult to clearly visualise in the mid vessel due to heavy calcification ?patency. Vessel is patent distally with damped monophasic waveforms, PSV= 0.60m/s.

ABPI not performed due to heavily calcified Crural arteries.

Summary

75-99% TPT stenosis.

50-74% distal ATA stenosis.

75-99% proximal ATA stenosis.

?Occluded proximal-mid PTA

Reporter: Miss Heulwen Gilbert