A Non-Invasive Investigation of Lower Limb Peripheral Arterial Disease: A Comparison of BlueDop and Conventional Methods in Practice.

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OBJECTIVE

- Assess the use of BlueDop as a non-invasive method to detect the presence of lower limb arterial disease by measuring mean arterial pressure.
- Compare the range of patented parameters utilised by BlueDop with conventional non-invasive evaluation in the assessment of lower limb ischemia.
- Evaluate ease of use and applicability of the product by healthcare professionals of varying ability and skill level.

METHODS

The results obtained from BlueDop will be compared to conventional ABPI and non-invasive Colour Doppler Ultrasound (CDU) in order to analyse the device for use within the healthcare setting. All patients referred to the vascular laboratory for assessment of lower limb arterial disease will be entitled to participate in the study. All participants will undergo evaluation by BlueDop and conventional ABPI/CDU. The study will be double blinded – the individual carrying out the BlueDop measurement will be unaware of the results of the ABPI and CDU assessed by a vascular scientist and vice versa. No patient will be denied the conventional arterial assessment requested by a clinician. Appropriate statistical analysis will be conducted to analyse the results of the two methods of assessment of lower limb arterial insufficiency.