



FOOT SPECIALISTS OF EL PASO

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Diagnosing PAD using a multiple inflation-port device for ABI, TBI, and segmental pressure testing with recognition of Doppler & PV waveforms and foot temperatures.

Dr. Gonzales, Foot care of El Paso

INTRODUCTION

Performing complete vascular testing is becoming increasingly important. The testing is implemented frequently and includes ABI, TBI, segmental pressure testing as well as recognition of Doppler and PV waveforms along with foot temperatures for diagnosing PAD and potential sites for wound development. Using a multiple inflation-port device allows for a reduction in testing time and burden for patients and testing facilities.

METHODS

A complete vascular testing study was conducted involving 5 subjects, 2 females and 3 males, with suspected PAD at an average age of 52. The Hadeco Smartdop XT was used to perform the study, which included ABI, TBI, and segmental pressure testing along with recognition of Doppler & PV waveforms, and foot temperatures. Up to 14 sites of each subject, Arm, High thigh, Above knee, Below knee, Ankle, Transmetatarsal, and Great toe on each side were tested. For this study the High thigh & Transmetatarsal were excluded.

RESULTS

The results of the testing for all 5 subjects were eventually positive and no further testing was needed after a follow-up of 3 months. The right TBI tested negative for a 62-year old female subject on Automatic Arterial Testing, hereafter called the AAT. The overall test results were interpreted positive since the right TBI tested positive on the second test of Doppler Arterial Testing, hereafter called the DAT. The left TBI tested negative for a 72-year old male subject on the AAT. However, overall test results were interpreted positive since the left TBI tested positive on the second test of the DAT. The left ABI was tested negative for a 51-year old male subject on the DAT. The overall test results were interpreted positive since the left ABI tested positive on the AAT.

CONCLUSIONS

The Smartdop XT is an effective device for the diagnosis of PAD/vascular disease by performing Doppler, PV and PPG studies including ABI, TBI, and waveform recognition. Foot temperature studies using the

Smartdop XT is effective for additional information for diagnosing PAD and wound potentials. The Smartdop XT proves to reduce the testing time and burden for patients and testing facilities by utilizing the devices multiple inflation ports consisting of up to 14 sites.

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