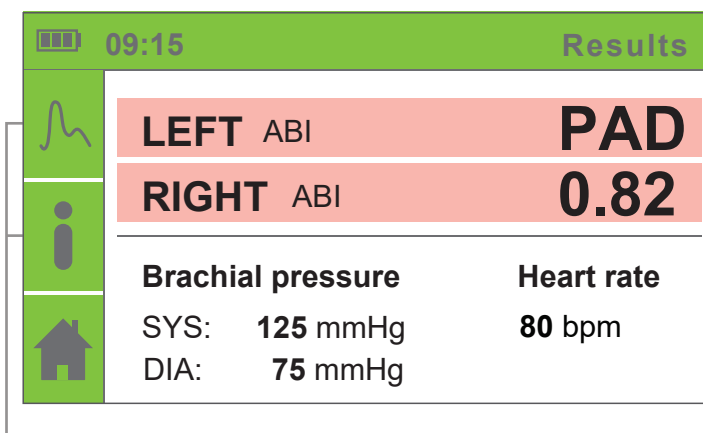




PULSE VOLUME WAVEFORM RECORDING with MESI ABPI MD

In addition to Ankle Brachial Index (ABI) measurement, MESI ABPI MD also provides Pulse Volume Recording (PVR), which is a waveform interpreted by pattern recognition. Combining both the ABI and PVR represents the best practice in evaluating the presence and severity of Peripheral Arterial Disease (PAD).

ABI RESULTS



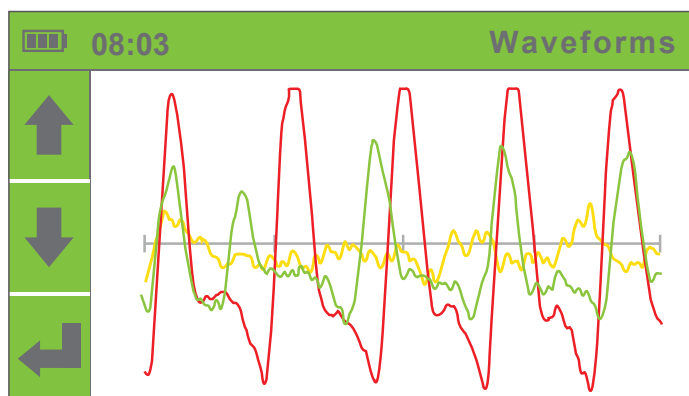
This is a generic ABI result, measured with MESI ABPI MD.

Ankle Brachial Index (ABI) result is shown for the right and left leg. Results are coloured according to the international clinical guidelines. Along with the ABI result, the brachial blood pressure and heart rate measurements are shown on the screen.

Pulse Volume Weveform Recordings.

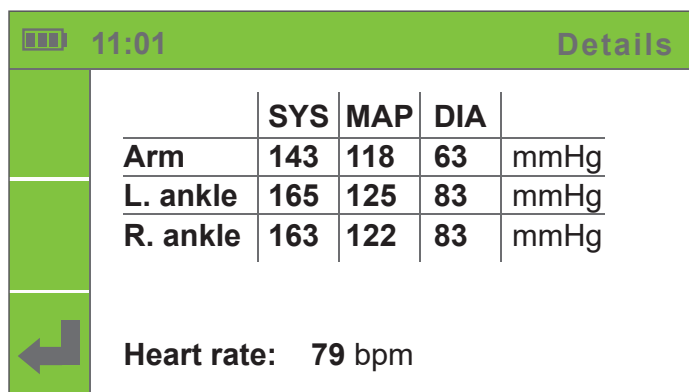
All measured pressures.

PVR WAVEFORMS



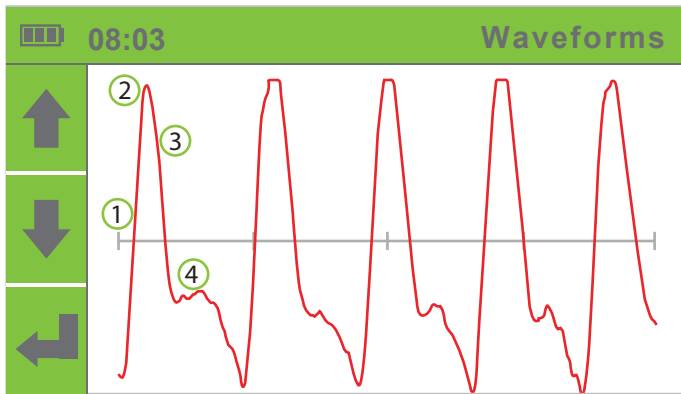
Pulse Volume Recording is an essential addition to ABI measurement. The waveforms are interpreted by pattern recognition and determine the severity of Peripheral Arterial Disease.

ALL MEASURED PRESSURES



For a better insight into the blood pressure in lower extremities, MESI ABPI MD provides not only systolic but also diastolic and mean blood pressure.

NORMAL PULSE VOLUME RECORDING



Normal PVR will display:

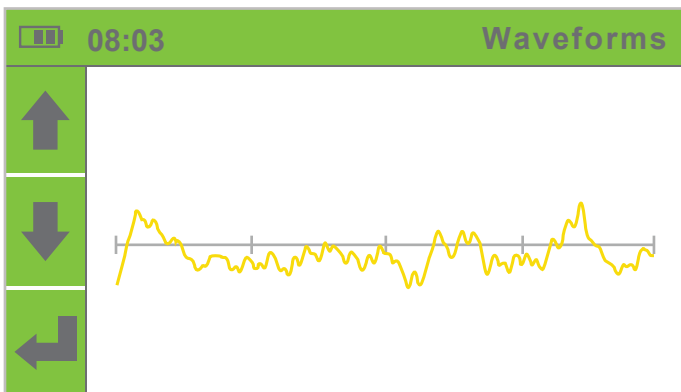
- 1 A rapid rise in the upstroke during systole
- 2 A very sharp peak
- 3 A gradual downstroke
- 4 A presence of dichrotic notch

ABNORMALLY LOW PULSE VOLUME RECORDING



An absence of the dichrotic notch, a smaller amplitude, decreased slope and rounding of the systolic peak are the initial signs of a possible abnormality - measured ABI value is lower than the one with normal PVR.

SEVERE PULSE VOLUME RECORDING WAVEFORM



A flattened PVR waveform or a PVR without the typical shape is an indicator of severe PAD. The absence of the pulsations caused by occlusions in the artery makes it impossible to calculate the ankle pressures. Instead of ABI value, the device will display a "PAD" result, indicating severe disease. The result is confirmed with non-typical, flattened PVR waveform, similar to the picture on the left.