

Reference Guide



A photograph showing a person's arm with a blue blood pressure cuff. A hand is holding a small, grey, handheld ultrasound device against the skin on the forearm. Another hand is holding a white, rectangular device with a speaker grille and a small screen, which is connected to the handheld device by a grey cable. The screen displays the number '12'. The device has the text 'Ultrasound' and 'Sonar' on it.

Obtaining a Waveform – For the best sounds, angle the probe approximately 45 degrees from the skin surface over the general location of the vessel. Slowly move the probe side to side and vary the angle of the probe until the vascular sounds are heard. Changing the angle of the probe has an effect on the frequency of the sound. The steeper the probe angle is, the higher the frequency of the sound.

The diagram illustrates the layout of the LCD display with the following components and labels:

- HEART RATE INDICATOR:** Points to the "BPM" label.
- PROBE FREQUENCY INDICATOR:** Points to the "MHZ" label.
- BATTERY LEVEL/RECHARGE INDICATOR:** Points to the battery icon.
- "PLAY" INDICATOR:** Points to the right-pointing triangle.
- "RECORD" INDICATOR:** Points to the "REC" label.
- ERROR INDICATOR:** Points to the "ERROR" label.
- DIGIT DISPLAY AREA:** Points to the three large digit displays.
- SIGNAL QUALITY INDICATOR:** Points to the row of five small square indicators.



Connecting the Printer – Ensure that the printer is loaded with paper and connect the cable to the printer and LifeDop as shown. Note the label “THIS SIDE UP”. Turn the printer on by HOLDING the power button down until the LED comes on. If the printer is functioning properly and ready to print, the LED will flash green twice every second.



Summit Doppler™

Lower Extremity Physiologic Study, Single Level
(Ankle Brachial Index Assessment Form)

Patient Name <u>Smithy Mark</u>	ID Number <u>76-2004</u>	Date <u>07-29-20</u>
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Risk Factors	Current Symptoms	ABI / Severity of Disease
<input type="checkbox"/> Tobacco Use <input type="checkbox"/> Hypertension <input checked="" type="checkbox"/> Diabetes <input type="checkbox"/> Hyperlipidemia <input type="checkbox"/> Heart Disease <input checked="" type="checkbox"/> Stroke/TIA Current Age <u>45</u> Previous Vascular Surgery <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____	<input type="checkbox"/> Numbness/Claudication <input type="checkbox"/> Numbness, Tingling or Itch <input type="checkbox"/> Ulcerations <input type="checkbox"/> Other _____	<input type="checkbox"/> < 0.6 Noncompressible <input type="checkbox"/> 0.60 - 0.9 Normal <input type="checkbox"/> 0.91 - 0.99 Mild to Moderate <input type="checkbox"/> ≥ 1.00 Normal <small>© 2010 Medical Technology Management of Indianapolis IN, USA</small>

Right Arm <u>56</u> mmHg	Left Arm <u>53</u> mmHg	
Right PT <u>49</u> mmHg	Left PT <u>46</u> mmHg	
Right DP <u>53</u> mmHg	Left DP <u>50</u> mmHg	

Left ABI at the PT Left PT Pressure <u>46</u> mmHg . <u>74</u> Higher Arm Pressure <u>56</u> mmHg Left ABI at the DP Left DP Pressure <u>50</u> mmHg . <u>76</u> Higher Arm Pressure <u>56</u> mmHg Right ABI at the PT Right PT Pressure <u>49</u> mmHg . <u>76</u> Higher Arm Pressure <u>56</u> mmHg Right ABI at the DP Right DP Pressure <u>53</u> mmHg . <u>77</u> Higher Arm Pressure <u>56</u> mmHg	<div style="margin-bottom: 10px;"> <input type="checkbox"/> LEFT <input checked="" type="checkbox"/> RIGHT </div> <div style="margin-bottom: 10px;"> <input checked="" type="checkbox"/> PT <input type="checkbox"/> DP </div> <div style="margin-bottom: 10px;"> <input checked="" type="checkbox"/> LEFT <input type="checkbox"/> RIGHT </div> <div> <input checked="" type="checkbox"/> PT <input type="checkbox"/> DP </div>
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PEEL AND STICK WAVEFORM

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Caution – U.S. Federal law restricts this device to sale by or on the order of a licensed practitioner.

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ABI Exam Outline

This outline provides a step-by-step method for conducting the basic ABI examination. For a more detailed description of each step, refer to the ABI Diagnostic Examination Guide section in the manual.

In a warm room, have the patient take off his/her shoes and socks and rest in a supine position for approximately 5 minutes prior to taking pressures. The patient should wear thin, loose fitting clothing. Avoid rolling up sleeves or pant cuffs in such a manner that it obstructs blood flow. Bulky items such as sweaters should be removed.

1. RIGHT BRACHIAL ARM PRESSURE – With the patient lying down, take the right brachial pressure with the Doppler and record the value on the report form.

To obtain the Right Side Study

2. RIGHT ANKLE DP OR PT WAVEFORM (without inflating the cuff) * - Acquire the arterial pulse with the Doppler at the right foot and print the Doppler waveform prior to taking the ankle pressure. Attach the waveform to the report form. Check the “RIGHT” box and indicate that the waveform was taken at the posterior tibial (PT) or the dorsalis pedis (DP).
3. RIGHT ANKLE PT SYSTOLIC PRESSURE - Take the right ankle PT pressure and record the value on the report form.
4. RIGHT ANKLE DP SYSTOLIC PRESSURE - Take the right ankle DP pressure and record the value on the report form.

To obtain the Left Side Study

5. LEFT ANKLE DP OR PT WAVEFORM (without inflating the cuff) * - Acquire the arterial pulse with the Doppler at the left foot and print the Doppler waveform prior to taking the ankle pressure. Attach the waveform to the report form. Check the “LEFT” box and indicate that the waveform was taken at the posterior tibial (PT) or the dorsalis pedis (DP).
6. LEFT ANKLE PT PRESSURE - Take the left ankle PT pressure and record the value on the report form.
7. LEFT ANKLE DP PRESSURE - Take the left ankle DP pressure and record the value on the report form.
8. LEFT BRACHIAL ARM PRESSURE - Take the left brachial pressure. Record the left brachial pressure on the ABI / Risk Assessment Form.
9. CALCULATE ABI VALUES - Calculate the ABI for both sides. (For each side, divide the ankle pressure by the higher of the two arm pressures.)

* Press the RED button on the side of the LifeDop to print the PREVIOUS four seconds of waveform data. To obtain optimum Doppler waveforms, be sure to maintain a 45 degree angle between the probe and artery. Use plenty of gel and minimize pressure that could compress the artery.

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