




Newman Medical MAN-0009-B Segmental Examinations with Simple ABI Cuff Link Systems User Manual

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Newman Medical MAN-0009-B Segmental Examinations with Simple ABI Cuff Link Systems



Product Information

Specifications

- Product Name: simpleABI Cuff-Link™ Systems
- Model Number: MAN-0009-C
- Manufacturer: Newman Medical

Product Usage Instructions

Segmental Procedure

To perform segmental examinations using the simpleABI Cuff-Link™ Systems, follow the steps below:

Setting up

1. Open the exam on the computer desktop by double-clicking the simpleABI icon.
2. Select File > New > 3 cuff Segmental Report (or 4 cuff) to open the report.
3. Enter patient information, risk factors, symptoms, ICD codes, etc. in the report.

Attaching cuffs

Wrap appropriate cuffs at each site. Attach the hoses from the Cuff-Link control unit to the cuffs as shown below:

Brachial Pressure

1. Begin with the right brachial. Place the Doppler probe at a 45-degree angle to the skin over the radial or brachial artery. Use plenty of gel and slowly move the probe laterally until the best signal is obtained.
2. Press and hold Inflate on the Cuff-Link Remote and inflate the cuff until you no longer hear the signal – continue for an additional 10-20 mmHg.
3. Release Inflate and the cuff will automatically deflate at the suggested rate of 2mmHg/second.
4. When you hear the Doppler signal return, pressing Pressure will store the pressure value in the exam.

Ankle Pressures

1. Press Next on the remote and the system will move to the Dorsalis Pedis (DP) site. Find the arterial signal using the Doppler probe on the dorsal pedis artery on top of the foot. Obtain the arterial pressure in the same manner you did on the arm.
2. Press Next and the system will move to the posterior tibial (PT) site. Find the Doppler signal on the posterior tibial artery. Obtain the arterial pressure.

Ankle Waveform

1. Press Next and the system will move to the waveform site.
2. Press and release the button with the Waveform image on the top right of the remote.
3. The cuff will inflate to roughly 85mmHg and deflate to the proper pressure (65mmHg) while obtaining the waveform.
4. The patient should remain as still as possible during the measurement.

Calf Pressure & Waveform

To obtain calf pressure and waveform, follow the same steps as for ankle pressures.

Above Knee Pressure & Waveform

To obtain above knee pressure and waveform, follow the same steps as for ankle pressures.

Thigh Pressure & Waveform (4-cuff)

To obtain thigh pressure and waveform using a 4-cuff system, follow the same steps as for ankle pressures.

FAQ

Question 1: How do I attach the cuffs to the Cuff-Link control unit?

Wrap appropriate cuffs at each site. Attach the hoses from the Cuff-Link control unit to the cuffs as shown in the cuff attachment diagram.

Question 2: How do I obtain brachial pressure?

To obtain brachial pressure, follow these steps:

1. Place the Doppler probe at a 45-degree angle to the skin over the radial or brachial artery.
2. Use plenty of gel and slowly move the probe laterally until the best signal is obtained.

3. Press and hold Inflate on the Cuff-Link Remote and inflate the cuff until you no longer hear the signal – continue for an additional 10-20 mmHg.
4. Release Inflate and the cuff will automatically deflate at the suggested rate of 2mmHg/second.
5. When you hear the Doppler signal return, pressing Pressure will store the pressure value in the exam.

Question 3: How do I obtain ankle pressure?

To obtain ankle pressure, follow these steps:

1. Press Next on the remote to move to the Dorsalis Pedis (DP) site.
2. Find the arterial signal using the Doppler probe on the dorsal pedis artery on top of the foot.
3. Obtain the arterial pressure in the same manner you did for brachial pressure.
4. Press Next to move to the posterior tibial (PT) site.
5. Find the Doppler signal on the posterior tibial artery.
6. Obtain the arterial pressure in the same manner as before.

Segmental Examinations

Segmental Examinations with simpleABI Cuff-Link™ Systems

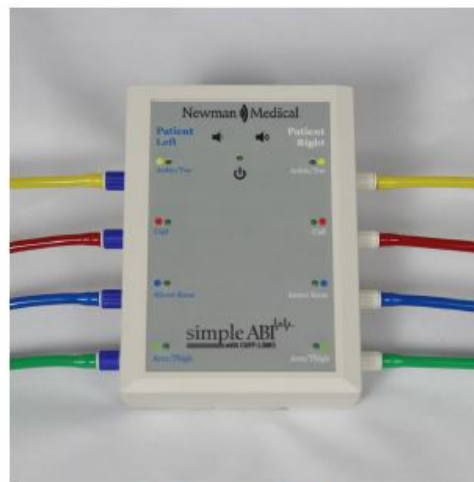
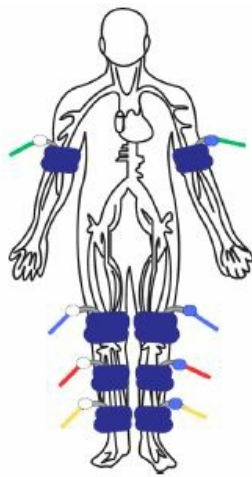
Please Read the Users Manual First: This is a quick reference guide.

- **Contraindications:** Do not perform the exam on someone suspected of having acute deep venous thrombosis, and do not take an arm pressure in an arm with a shunt or dialysis graft.
- **Background:** A segmental exam of the leg is an extension of the ABI exam. In this test, you can attempt to localize the site of an occlusion by taking the pressures and waveforms at more locations on the leg. Pressures and PVR waveforms are taken just as in the ABI exam. The Doppler probe location remains at the ankle – usually the PT

The Segmental Procedure

Setting up

- **Opening the exam** On the computer desktop, double-click the simple icon. When the program opens select File New 3 cuff Segmental Report (or 4 cuff). The report will open and you can enter patient information, risk factors, symptoms, ICD codes, etc.
- **Attaching cuffs** Wrap appropriate cuffs at each site. Attach the hoses from the Cuff-Link control unit to the cuffs as shown below. The green connectors go to the arm (or thigh) cuffs, red to the calves, blue to above the knee cuffs, and yellow to the ankles. White hoses go to the patient's right side, and blue to the left. *NOTE* the image is reversed as if you are looking at the patient lying down



Cuff-Link Control Unit
with tubing properly attached



Brachial Pressure

1. Begin with the right brachial. Place the Doppler probe at a 45-degree angle to the skin over the radial or brachial artery. Use plenty of gel and slowly move the probe laterally until the best signal is obtained.
2. Press and hold Inflate on the Cuff-Link Remote (shown above) and inflate the cuff until you no longer hear the signal – continue for an additional 10-20 mmHg.
3. Release Inflate and the cuff will automatically deflate at the suggested rate of 2mmHg/second.
4. When you hear the Doppler signal return, pressing Pressure will store the pressure value in the exam.

Ankle Pressures

1. Press Next on the remote and the system will move to the Dorsalis Pedis (DP) site. Find the arterial signal using the Doppler probe on the dorsal pedis artery on top of the foot. Obtain the arterial pressure in the same manner you did on the arm. (Hold Inflate until occlusion, release Inflate, press Pressure on Doppler signal return)
2. Press Next and the system will move to the posterior tibial (PT) site. Find the Doppler signal on the posterior tibial artery. Obtain the arterial pressure. (Hold Inflate until occlusion, release Inflate, press Pressure on Doppler signal return)

Ankle Waveform

Press Next and the system will move to the waveform site. Press and release the button with the Waveform image on the top right of the remote. The cuff will inflate to roughly 85mmHg and deflate to the proper pressure (65mmHg) and hold that while the waveform is obtained. The waveform will start to appear when the cuff has reached 65mmHg. The patient should remain as still as possible during the measurement. Leave the Doppler probe on the posterior tibial (PT) for all upper-level site pressures, if upper pressures will be taken. See notes on efficient protocols below.

Calf Pressure & Waveform

1. Press Next on the remote and the system will move to the calf site. Obtain the arterial pressure and waveform in the same manner you did on the ankles.

Above Knee Pressure & Waveform

1. Press Next on the remote and the system will move to the above-knee site. Obtain the arterial pressure and waveform in the same manner you did on the ankles.

Thigh Pressure & Waveform (4-cuff)

1. Press Next on the remote and the system will move to the thigh site. Obtain the arterial pressure and waveform in the same manner you did on the ankles.

Left Side

1. Repeat the above pressures and waveform sequence for the left side of the patient.
When finished, save or print the exam

Helpful Hints

Cuff techniques:

- Wrap the cuff snugly.
- Cuffs may be placed over thin clothing or stockings.
- Don't let the patient try to help by lifting their leg – as they relax their muscles the cuff will become loose.
- Placing a pillow under the patients heels may aid the examination.
- Have the patient remain as still and quiet as possible while taking the waveforms.
- If the patient has tremors that interfere with the waveform, having them perform a few dorsiflexions with their toes before taking the waveform may help.

Doppler techniques:

- Hold the probe like you would a pencil, close to the end.
- Move the probe back and forth laterally over the artery to obtain the best signal.
- Support the probe with your hand resting on the patient so that the probe does not move as the cuff is inflated and deflated.
- One of the keys to a successful exam is being able to keep the probe in place as you inflate and deflate the cuffs.
- If the probe moves, you may not be able to hear the Doppler sounds return and may have to repeat the inflation

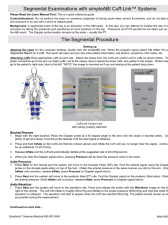
Efficient Protocol:

- Current clinical and CPT guidelines for code 93923 do not require that pressures be obtained at upper sites on the leg if the exam is performed using both ankle pressures and PVR waveforms.
- This may significantly reduce the time necessary for this exam while maintaining clinical value.
- This efficient protocol significantly increases patient comfort.
- Clinically, if the ankle ABI is unequivocally normal, the upper leg pressures will be normal as well



Questions? Newman Medical 800-267-5549

Documents / Resources

	<p>Newman Medical MAN-0009-B Segmental Examinations with Simple ABI Cuff Link Systems [pdf] User Manual</p> <p>MAN-0009-B Segmental Examinations with Simple ABI Cuff Link Systems, MAN-0009-B, Segmental Examinations with Simple ABI Cuff Link Systems, Examinations with Simple ABI Cuff Link Systems, Simple ABI Cuff Link Systems, Cuff Link Systems, Link Systems, Systems</p>
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References

- [User Manual](#)