**Home-use therapy**

- The only device optimized for arterial disease
- Applies a unique form of intermittent pneumatic compression (IPC)
- The only device of its kind supported by randomized controlled trials

**ArtAssist®**

**THE ARTERIAL ASSIST DEVICE®**

arterial pump technology

**PATIENTS & PHYSICIANS ARE TALKING...**

- “I expect to be walking a golf course again this year. One year ago, I thought that was a pipe dream!”
  - Don S., Ontario, Canada

- “Try it! What do you have to lose except your leg? It’s worth it and there’s absolutely no pain!”
  - Claire T., Tucson, AZ

- “I am very lucky to have found something that has helped me so much, and I still have my limbs.”
  - Lorraine K., Fargo, ND

- “I found, to my relief, that I was able to walk further without pain. It felt good having that sensation pumping and knowing that I was getting more blood to the area and going down to the mailbox to get the mail. After using the ArtAssist® for a period of approximately a week, I was able to walk up the hill without stopping.”
  - Dr. Fred C., San Diego, CA

- “The ArtAssist® device has incorporated the important elements and the optimization of the hemodynamics. Namely, the high-pressure inflation, the rapid inflation, the sequence in between foot and calf, and then the repetition at three times each minute.”
  - Anthony Comerota, MD, Vascular Surgeon

- “[With the ArtAssist® device] we have a double-mechanism that produces such a major increase in the arterial flow...if you have an increase in the arterial flow, the endothelium is stimulated, it produces nitric oxide and on the long-term, we get a fantastic collateral circulation...that explains why people, after 2 or 3 months of using it, can double and triple their claudication distance.”
  - Andrew N. Nicolaides, MS, FRCS, Professor of Vascular Surgery

**Arteriogenesis has arrived.™**
The ArtAssist® device

Re-ordering Parts

Controller
AA-1000

Tubing Sets
To Foot & Calf Cuffs
To Calf & Thigh Cuffs
To Hand & Arm Cuffs

Cuff Sets
Look for the letters after the 4-digit LOT #
C: Foot & Calf (Regular)
CS: Foot & Calf (Small)
CT: Calf & Thigh
A: Hand & Arm
BK: Below-Knee

Power Cords
We carry the following configurations:
• USA
• Europe
• Japan

For a more efficient ordering process, please have your device’s serial number ready when you call.
The serial number is located to the left of the power cord input and starts with “AD2”.

Improve blood flow to your patients’ ischemic limbs with ArtAssist®...
The Arterial Assist Device®

• Understanding the underlying physiology of increasing arterial flow
• Designing a device based on this understanding
• Determining the long-term clinical benefit to patients with critical limb ischemia

With these goals in mind, the ACI Medical team developed ArtAssist® Arterial Pump Technology, an innovative device which significantly increases blood flow in the major arteries and at the tissue level.

The ArtAssist® device applies rapid, high-pressure pneumatic compression to the foot, ankle & calf to increase arterial blood flow.

It is indicated for:
• patients with peripheral arterial disease (PAD) including non-surgical candidates,
• diabetic and non-diabetic arteriopathic foot and leg ulcers,
• after bypass surgery,
• intermittent claudication and rest pain (critical or subcritical ischemia).

There are no known adverse reactions.

The ArtAssist® device is the only external pneumatic compression device optimized for increasing arterial blood flow.

Clinical studies have determined the optimal parameters (timing, pressure, intervals, bladder size and placement, patient position) to maximize blood flow. Arterial blood flow improvements are observed using duplex ultrasonic imaging and at the tissue level in the foot using laser Doppler fluximetry.

Blood flow increased 3.1 times

Doppler imaging in the popliteal artery shows pre-compression and post-compression velocities on a patient with Fem-pop disease.
At least three physiological mechanisms by which the ArtAssist® device improves blood flow

1. By compressing all the tissues below the knee, a large volume of venous blood is emptied with the venous pressure dropping close to zero. Arterial pressure is unchanged by compression; therefore, the increased arterial-venous pressure gradient results in greater arterial inflow. 

\[
\text{Flow} = \frac{\text{Pressure Gradient}}{\text{Resistance}}
\]

The increase pressure gradient alone does not account for the large blood flow increases; especially the end-diastolic flow shown in Fig. 1.

2. A second mechanism for action involves the endothelium. This structure plays an important role in controlling peripheral resistance. Endothelial release of NO causes vasodilation.

3. Perhaps the most important mechanism is arteriogenesis, the opening of collaterals, which have been shown angiographically, with improved ABI’s, PVR’s and tissue biopsies.

Protocol
Patients rent the ArtAssist® device for home use because it is easy to use and there is no need for a clinician to operate the device. Patients need only turn on one switch (all timing and pressures are preset) and the device automatically turns off after therapy is completed. The recommended therapy is one hour, three times a day for at least 90 days to allow time for collaterals to form.

Clinical Trials
Three randomized controlled trials showed tripling and doubling of pain free walking distances in claudicants. Clinical trials showed 86% to 94% limb salvage rates in non-surgical patients with critical limb ischemia.

Contraindications
1. During episodes of superficial phlebitis, cellulitis or osteomyelitis
2. When increased venous and lymphatic return is undesirable, such as in patients with severe congestive heart failure
3. When deep vein thrombosis or pulmonary embolism exists or is suspected
4. Acute ischemia due to arterial blood clots

Prescription
• 1 hour, 3 times/day for 90 days (collaterals take 3+ months to open)
• Give Rx to patient with toll free number: 888 4 LEG FLO (888 453-4356)

ACI Medical takes care of the rest!
We work directly with your patients for shipping, billing, proper usage, and answering any questions they may have.
Arteriogenesis has arrived.™
Collateralization Case Report
Angiographic Evidence

Before

After 4 months’
treatment with the
ArtAssist® device


If it doesn’t say
ArtAssist®, it won’t work
like one!

Makers of cheaper devices may claim their therapy works “just like” the ArtAssist® device. They do not!

Ask to see their device’s published clinical evidence. Lower-cost devices do not match the ArtAssist® device for efficacy.