ArtAssist®

The Arterial Assist Device®

Non-Invasive Revascularization Device

Extensive clinical* evidence demonstrates the ArtAssist® device:

- Triples blood flow during use[1,3,5]
- 86-94% limb salvage rates on non-reconstructable limbs[44,45,49]
- Promotes healing of ischemic foot ulcers[44,45] (Arterial, Diabetic)
- Resolves rest pain: 82%-100% within 3 months; 100% within 6 months[50,59]
- Doubles and triples pain-free walking distance in claudicants[39,40,41,65]
- Promotes healing in amputation sites[11] and helps save limbs from amputation
- Increases toe pressure and ABI's through arteriogenesis[32,48]
- Positive results after failed bypass surgeries and endovascular procedures[26,32]

Supported by numerous clinical studies available at: acimedical.com/products/artassist/clinical-studies/

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ArtAssist.com

Intermittent Pneumatic Compression Therapy for Peripheral Arterial Disease

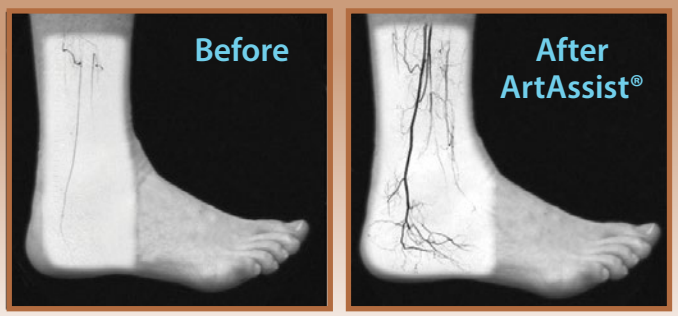
The ArtAssist® Device is an advanced intermittent pneumatic compression (IPC) therapy, developed by vascular surgeons to increase blood flow to the limbs for patients who suffer from peripheral arterial disease (PAD).

Therapy takes place with the patient in a comfortable sitting position as a unique IPC therapy with EndoShear™ technology which stimulates endothelial cells to promote acute vasodilation and collateral growth. The IPC compression regimen simulates the beneficial effects of brisk walking, without pain.

With this increased circulation, blood flow to the skin of the feet can be tripled which promotes healing. Often, positive results are seen within the first month of therapy.

After at least 3 months of use, collaterals may form (arteriogenesis), which provide long term blood flow improvements. There are no known side effects to ArtAssist® device therapy.

After 4 months of therapy.



Van Bemmelen, et al. Ann Vasc Surg 2003

Proven to Triple Blood flow During Use

Physiological Mechanisms

Mechanism 1

$$\text{FLOW} = \frac{\text{PRESSURE GRADIENT}}{\text{RESISTANCE}}$$

A large volume of venous blood is emptied with the venous pressure dropping close to zero causing temporary suspension of the veno-arteriolar reflex. The resulting increased arterial-venous pressure gradient results in greater arterial inflow.

Mechanism 2

The endothelium. This structure plays an important role in controlling peripheral resistance. Endothelial release of NO causes vasodilation from applied shear stress.

Mechanism 3

Arteriogenesis, the opening of existing collaterals, which have been shown angiographically, with improved ABI's, PVR's and tissue biopsies.

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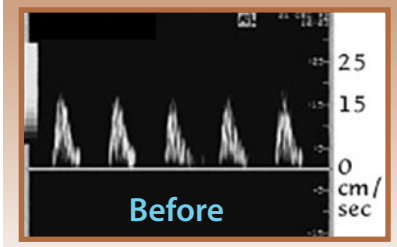
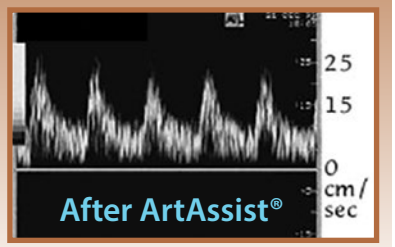
The First and Only IPC Therapy Optimized to Increase Blood Flow

The ArtAssist® Device is the first IPC device, specifically designed and optimized for PAD treatment. It has been extensively studied at university medical centers around the world. Over 70 scientific publications, presentations, and many randomized, controlled trials have been published.

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.

Doppler imaging in the popliteal artery shows pre-compression and post-compression velocities on a patient with Fem-pop disease.





Patients worldwide with the following conditions have benefitted from the ArtAssist® device:

- Peripheral Arterial Disease (PAD)
- Intermittent Claudication (Walking Pain)
- Critical Limb Ischemia (CLI)
- Rest pain
- Diabetic Foot Ulcer
- Ischemic Neuritis
- Chronic Arterial Ulcers
- Gangrene

ArtAssist® Device therapy is effective for non-surgical patients and there are no known adverse reactions.

Protocol

The ArtAssist® Device is a prescription device for either home or clinical use. The controller is portable and easy to use. Therapy takes place with the patient in a comfortable sitting position. Simply apply the cuffs unilateraly or bilaterally, and turn it on. Optimal settings are pre-programmed. The ArtAssist® device will do the rest.

How to Order

The pump and accessories may be rented or purchased from ACI Medical or one of our trusted dealers. Patients typically rent the ArtAssist® device for an average of 3-6 months for arteriogenesis to occur. Simply write the patient a prescription and ACI takes care of the rest.

Prescription Guidelines

Suggested prescription guidelines based on published literature are: 1 hour T.I.D., or a single 2 hour session once a day; or up to 8 hours/day.

Contraindications

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

ArtAssist.com | (888) 453-4356

ArtAssist® Timing Settings *All timing parameters are preset at the factory*

Compression Time	3 seconds
Non-Compression Time:	17 seconds
DELAY Between Foot/Ankle and Calf Bladder	1 second
Pressure Rise and Fall Times	<300 mSec

Device Specifications

Controller Weight:	15 Lbs. (6.8 Kg)
Size:	10" W x 12" H x 7 ¾ D (25 cm x 50 cm x 17 cm)
Max Operating Temp:	85° F (30° C)
Power Requirements:	100 - 250 VAC, 50/60Hz, 45W Max
Power Cord:	6' Length (183 cm), Hospital Grade Plug, Universal Female

Part Numbers

Controller	AA-1000
Tubing Set	02-0101-202
Standard Leg Cuff*	02-0105-216
Upper Extremity Cuff*	02-0105-416

Small Leg Cuff*	02-0105-516
Long BKA** Cuff	02-0105-616
Short BKA** Cuff	02-0105-716
Power Cord 220VAC	09-0120-001

**Cuffs are single patient use **Below Knee Amputation*

We Honor our Nation's Veterans

The ArtAssist® device has proven beneficial to our veterans, and can be found at many VA Hospitals.

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For more information, visit:

ArtAssist.com

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L 5.86 Rev. New, Eff. Date: 10/18/19