

## **VeinOPlus® Vascular**

Peripheral Vascular & Wound Therapy Device



### **Calf Muscle Pump Dysfunction Therapy...**

Increases blood flow, accelerates wound healing,  
and improves CVD and PAD symptoms

**VasoCARE** LLC

***Tomorrow's Technology for  
Today's Medical Needs***

## VeinOPlus® Vascular treats calf muscle pump dysfunction, increases blood flow, and improves symptoms!



Edema, discoloration, venous stasis ulcers, intermittent claudication limb pain, resting pain, and hard to heal foot ulcers are symptoms involving peripheral vascular disease.

**Conservative Treatment:** Exercise (walking) is the cornerstone of non-invasive management of chronic venous disease and peripheral arterial disease.

**Problem:** Despite the efficacy of walking, not all patients can participate in an exercise program due to claudication limb pain, resting pain, and/or venous stasis or diabetic ulcers.

**Fact:** The calf muscle pump during exercise drives 70-80% of the venous blood supply back to the heart. Hours of sitting leads to calf muscle pump dysfunction and poor blood flow, which over time causes the above symptoms to become progressively worse. A deficiency of the calf muscle pump is significant to the severity of ulceration and peripheral vascular disease.

**Solution:** The VeinOPlus® Vascular with *Second Heart Technology* treats calf muscle pump dysfunction due to disuse with NMES. Every second a specific impulse recruits the calf muscle fibers leading to contractions much like what happens when walking. Each contraction improves venous outflow 7 times and arterial inflow to the lower extremities 4 times. Each hour of in-home therapy is like taking 3,600 steps. It's about increasing arterial blood flow to the legs and improving CVD/PAD symptoms. Medicare approved.



*VeinOPlus® weighs 24 grams, portable, battery powered, and promotes ambulation.*

## VeinOPlus improves perfusion and walking capacity in patients living with Intermittent Claudication Limb Pain



PAD demands a comprehensive clinical approach that promotes detection and intervention. PAD is a chronic, progressive disease affecting 28 million Americans due to poor blood flow in the legs.

Intermittent claudication is one of the first clinical complications of PAD. Improving PAD symptoms reduces cardiovascular complications and improves patient outcomes.



**Recommended protocol:** Two, one-hour VeinOPlus sessions per day

- Increases arterial inflow 4 times to the feet and lower extremities
- Improves Ankle Brachial Indexes up to 5%
- Improves walking distance 100%
- No risk of ischemia
- No change in heart rate
- Covered by Medicare and most private insurance companies

The VeinOPlus is easy to use, small and lightweight (just 24 grams), battery operated, and promotes ambulation during therapy.

**VeinOPlus improves PAD symptoms and Quality of Life.**

## Sometimes standard of care is not enough ...



**Standard of Care:** While TCC or walking boots help offload pressure and Unna boots or multi-layer bandages provide compression, these same products restrict ankle ROM, cause calf muscle pump dysfunction, decrease circulation, and delay healing.

**VeinOPlus Solution:** VeinOPlus Vascular device accelerates healing by increasing perfusion. Testing confirms after an hour of VeinOPlus therapy, post TcPO<sub>2</sub> levels improve > 20 mmHg.



*Before VeinOPlus therapy*



*After 20 days of VeinOPlus therapy*

**Recommended protocol:** Four to six, one-hour sessions per day. Reduce to two, one-hour sessions to prevent recurrence of diabetic and/or venous ulcers.

**Treating the calf muscle pump accelerates the healing of ulcers three times when using the VeinOPlus Vascular device.**

## **VeinOPlus effectively reduces venous hypertension and limb pain for patients living with edema, venous stasis, and PTS.**



**Clinical Issues:** Chronic venous insufficiency along with calf muscle pump dysfunction leads to venous hypertension, skin complications, and eventually leg ulcers. In addition, chronic swelling reduces ankle ROM and may lead to falls.

**Problem Issues:** Compression is the gold standard in treating venous disease, however, compliance is poor with compression stockings, Unna boots, and multi-layer bandages. Patients find these products uncomfortable to wear due to heat build-up, difficulty in applying/removing, and bathing.



Compliance is high with the VeinOPlus due to ease of use.

Four simple steps:

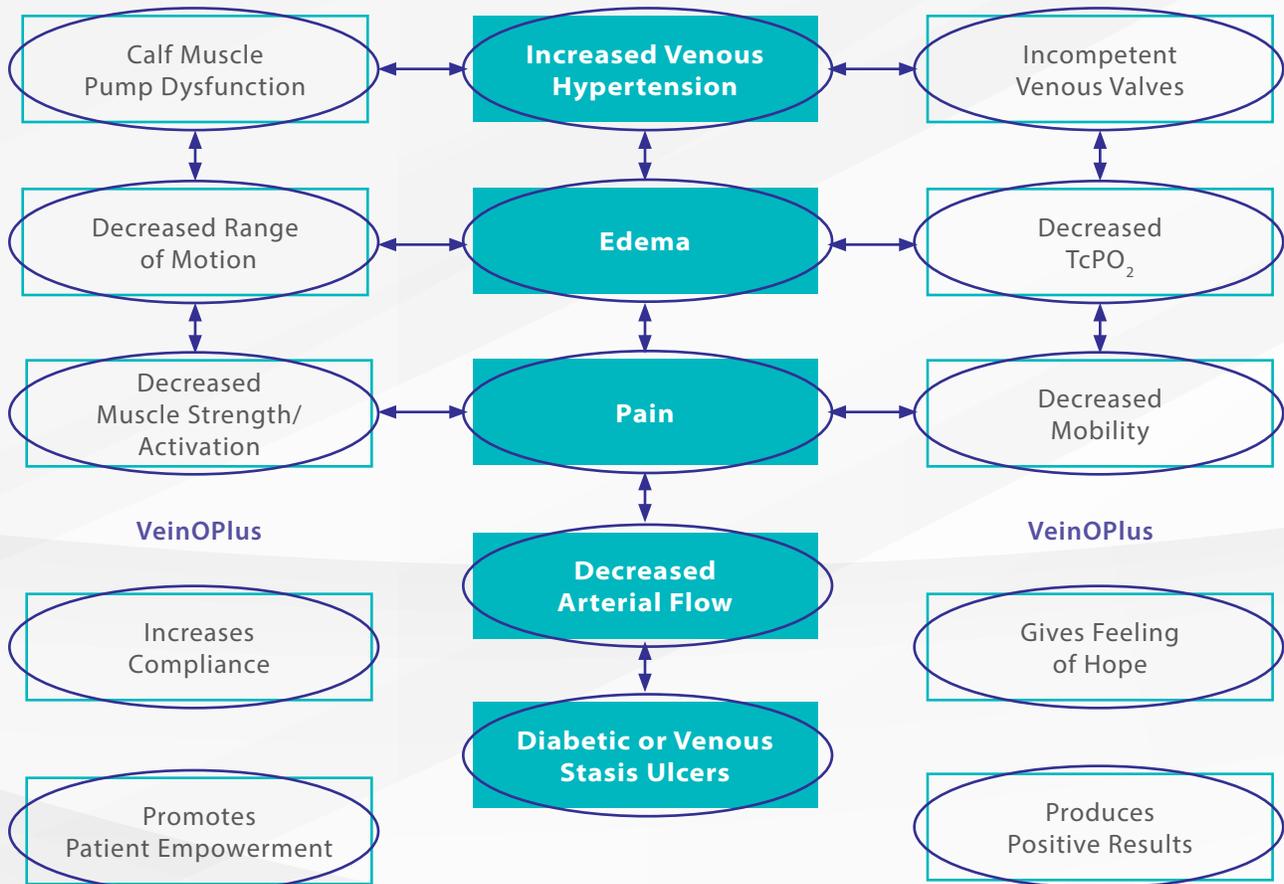
- 1) Apply electrode pad to each calf.
- 2) Connect the interface cable.
- 3) Depress the ON/off button.
- 4) Depress the Intensity Plus button until visible twitch is seen.

That's it! The device automatically shuts-off after sixty minutes of therapy.

## **The VeinOPlus increases venous outflow, helps prevent DVT, and improves the symptoms of CVI.**

## VeinOPlus achieves positive results and minimizes re-admissions.

The VeinOPlus has a positive effect on each of the areas circled:



**Final thoughts:** "The skin is the largest organ in the body and the first line of defense. Like any organ, it can fail if it is not properly nourished with oxygenated blood. Treating calf muscle pump dysfunction, increasing blood flow, and improving the symptoms of CVD or PAD are three reasons for prescribing the VeinOPlus Vascular device."

# VasoCARE<sup>LLC</sup>

*Tomorrow's Technology for  
Today's Medical Needs*

[www.vasocare.com](http://www.vasocare.com)

P: 800-256-9979

F: 866-455-5150