

VEINOPLUS® V.I.

The new
treatment
for
Venous
Insufficiency



* Clinically proven efficacy



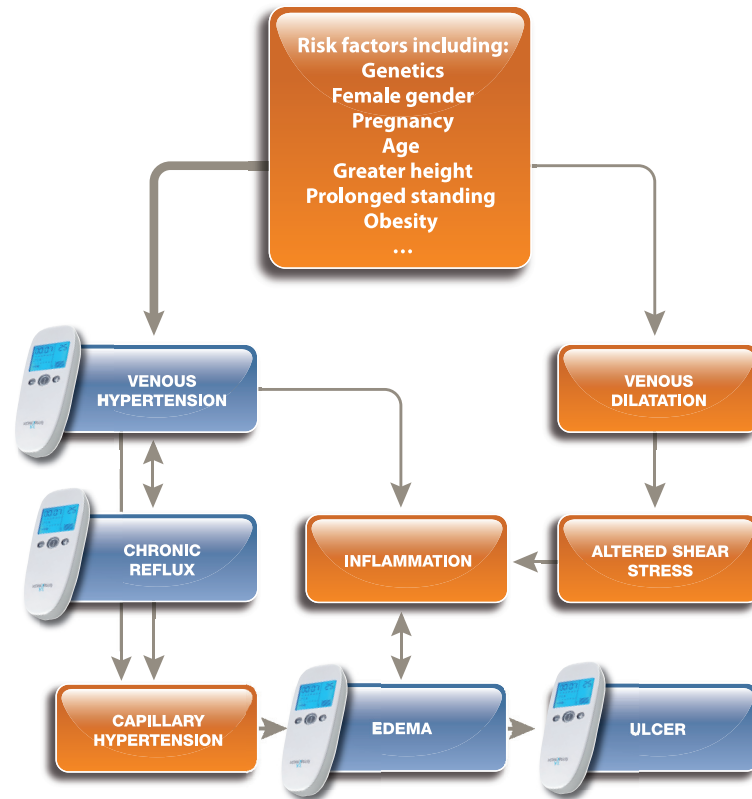
EFFICIENT

VEINOPLUS® acts at different levels of the cascade of the Venous Disease



More and more **patients** and **physicians** are welcoming VEINOPLUS® innovative approach and integrating it into their strategy against venous disease, whatever the severity of the symptoms.

VEINOPLUS® has **clinically proven results** at different levels of the **Venous Disease cascade**. VEINOPLUS® is **efficient in prevention and care** of most of the symptoms from "aching legs" to the most severe stages of the disease.

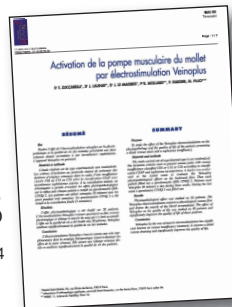


Source AD REM Technology - Adapted from BERGAN AN. NEJM 2006: «Chronic Venous Disease»

The efficiency of VEINOPLUS® has been shown in several clinical studies

Activation of the calf muscle pump by electro-stimulation with VEINOPLUS® device.

F. ZUCCARELLI, J. LAUNAT, J. LE MAGREX, R. MOLLARD, P. FARGIER, M. PUJO
In Angéiologie, 2005, volume 57, N°2, p48-54



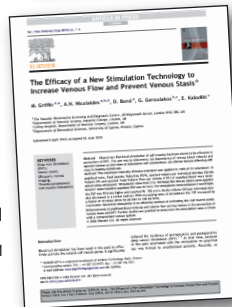
Effects of electrostimulation by VEINOPLUS® on lower limbs venous insufficiency-related symptoms during pregnancy.

A. LE TOHIC, H. BASTIAN, M. PUJO, P. BESLOT, R. MOLLARD, P. MADELENAT
In Gynécologie Obstétrique & Fertilité 37, 2009, p18-24



The Efficacy of a New Stimulation Technology to Increase Venous Flow and Prevent Venous Stasis.

M. GRIFFIN, A.N. NICOLAIDES, D. BOND, G. GEROULAKOS, E. KALODIKI
In Eur J Vasc Endovasc Surg. 2010 Dec; 40(6):766-71



Electromuscular stimulation with VEINOPLUS® for the treatment of chronic venous edema

BOGACHEV V. Y., GOLOVANOVA O.V., KUZNIETZOV A.H., STCHEKOIAN A.O.
International Angiology. 2011 Dec; 30(6):567-70



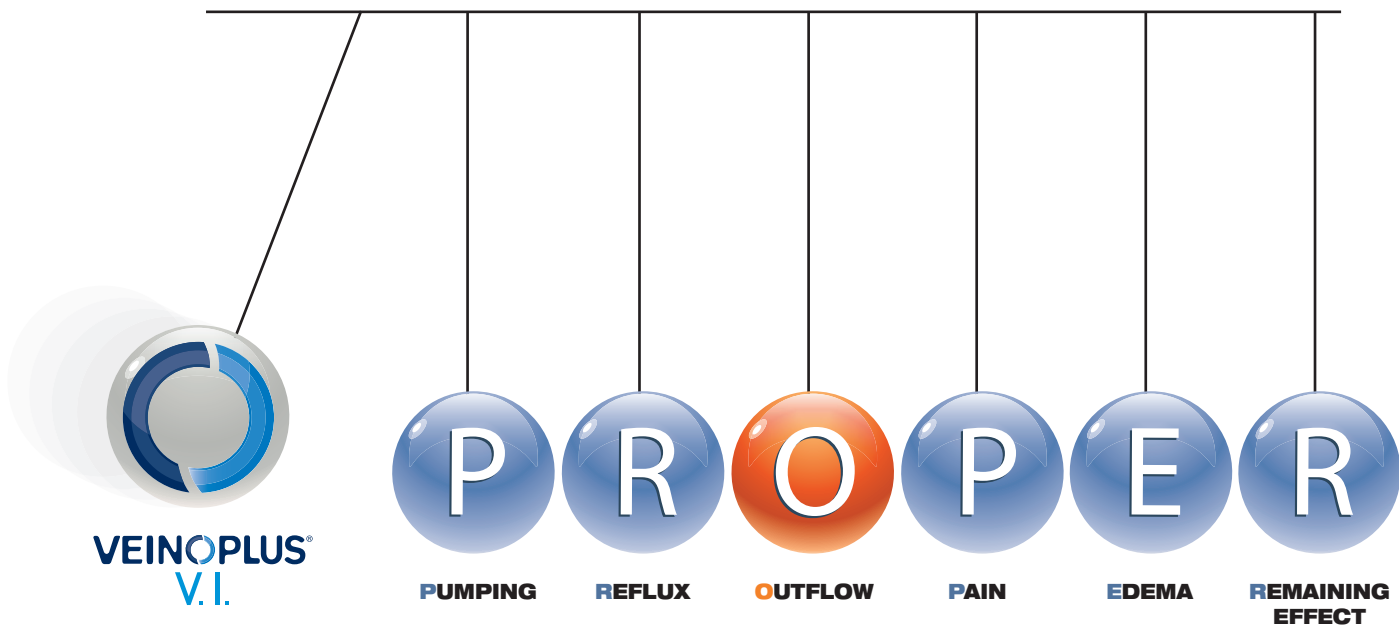
"The VEINOPLUS® technology has a lot to offer to severe Venous Insufficiency sufferers"
John J. Bergan, Professor of Surgery, University of California (2009)

SIMPLE

Venous
Disease

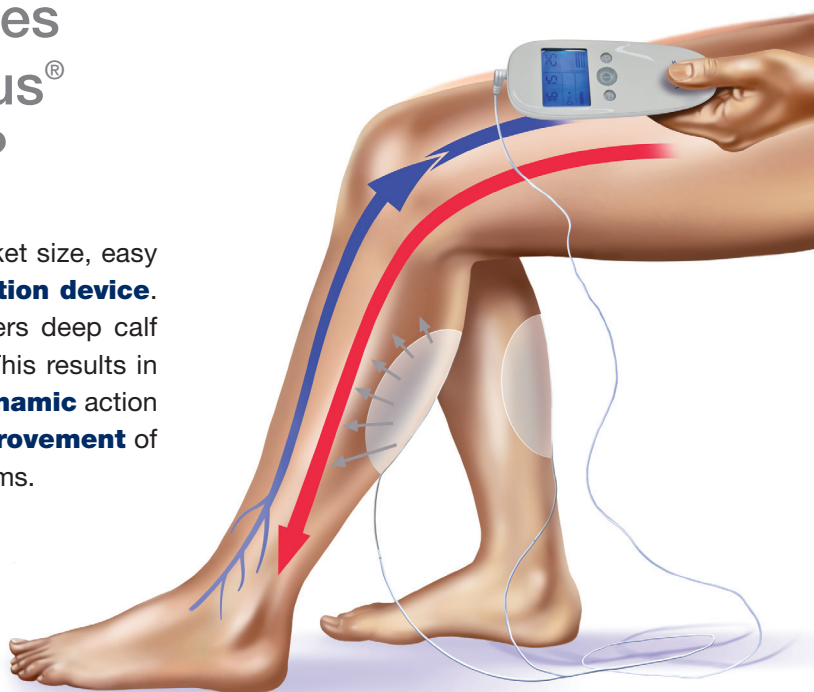
VEINOPLUS®

TECHNOLOGY FOR VENOUS RETURN



How does Veinoplus® work?

VEINOPLUS® is a pocket size, easy to use, **electrostimulation device**. Its specific signal triggers deep calf muscles contractions. This results in an unmatched **hemodynamic** action leading to **clinical improvement** of Venous Disease symptoms.



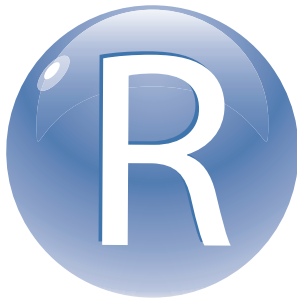
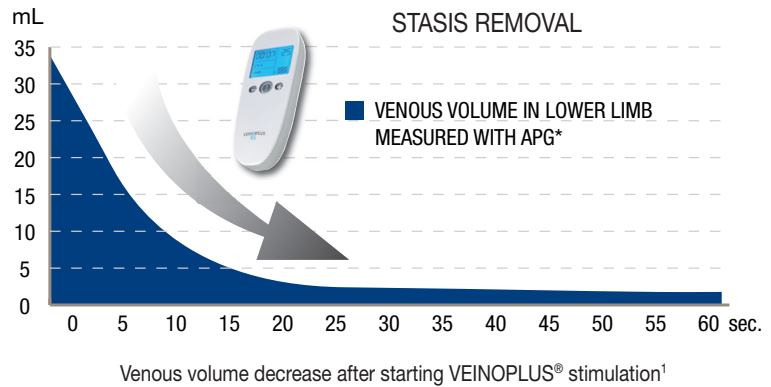


HEMODYNAMIC ACTION



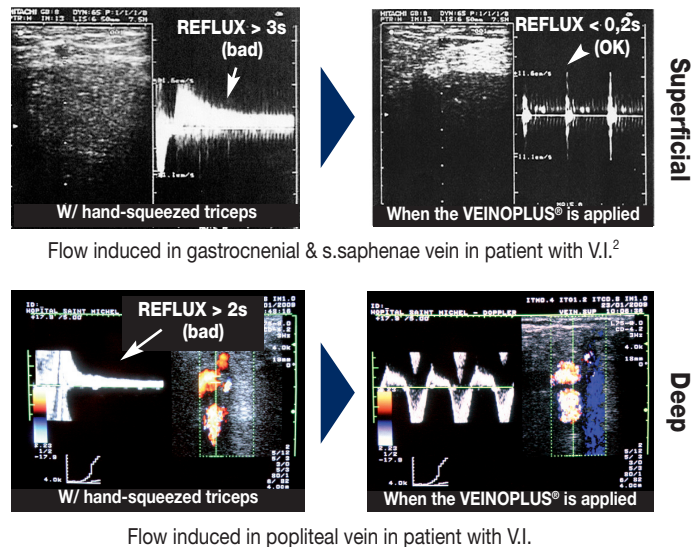
PUMPING

VEINOPLUS® PUMPING EFFECT RESULTS IN A RAPID DECREASE OF VENOUS BLOOD VOLUME IN THE LOWER LIMBS THUS REMOVING BLOOD STASIS



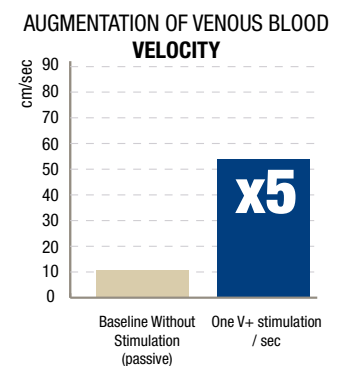
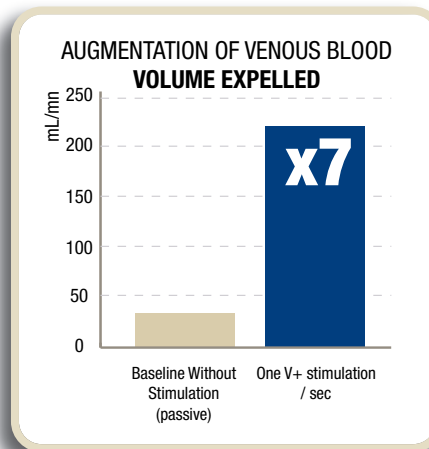
REFLUX

VEINOPLUS® INHIBITS REFLUX IN SUPERFICIAL AND DEEP VEINS



OUTFLOW

VEINOPLUS® SIGNIFICANTLY INCREASES VENOUS OUTFLOW (IN TERMS OF VOLUME AND VELOCITY) FROM THE LOWER LIMBS



Blood volume expelled and velocity measured in popliteal vein in semi-erected position, on 12 subjects³ (average)

V.I.: Venous Insufficiency - *Measured with APG: Air Plethysmography

1- APG: measurements of VEINOPLUS® effect on lower limb volume of healthy volunteer

2- ZUCCARELLI F. et al. Activation of the calf muscle pump action by electro-stimulation with VEINOPLUS® device. Angéiologie (2005)

3- Data from Nicolaides AN, Griffin M, Bond D et al. The Efficacy of New Veinoplus Stimulation Technology to Increase Venous Flow and Prevent Venous Stasis. Presented at the 22nd annual Meeting of American Venous Forum Feb. 2010. Abstract published in Journal of Vascular Surgery Volume 51, issue 3, page 790, March 2010

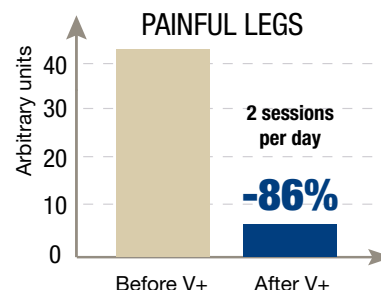
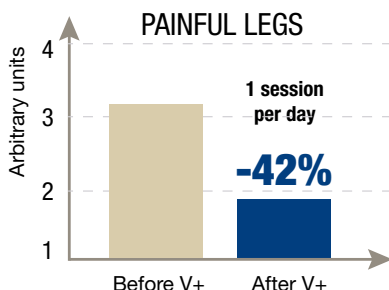
CLINICAL RESULTS

Venous Disease

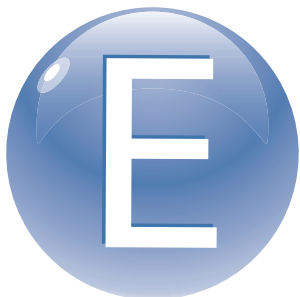


PAIN

VEINOPLUS® ALLOWS IMMEDIATE AND LONG-LASTING PAIN RELIEF



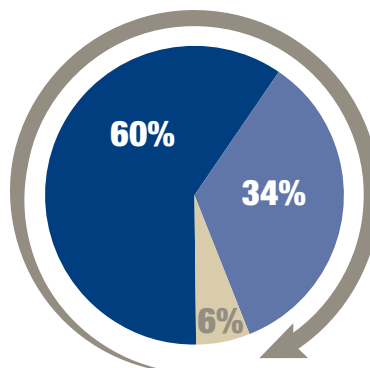
Reduction of pain in legs of venous insufficient patients^{1,2} (CIVIQ test results)



EDEMA

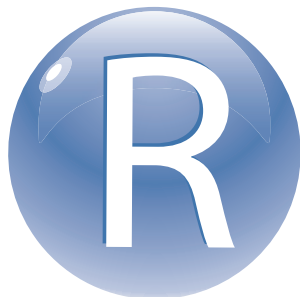
VEINOPLUS® REDUCES LOWER LIMB EDEMA IN PATIENTS WITH VENOUS INSUFFICIENCY

REDUCTION OF EDEMA



94% of cases

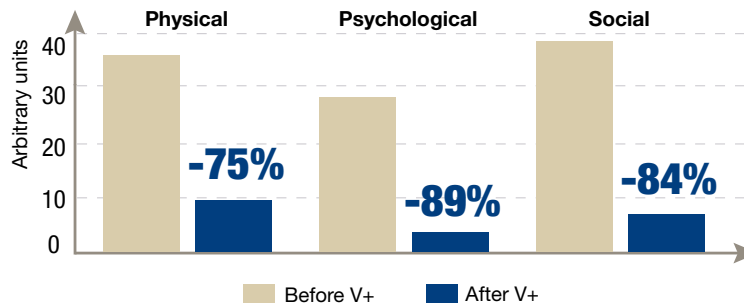
Reduction of Ankle Edema in 30 patients (CEAP classification C3) after a 30 day treatment with VEINOPLUS®³



REMAINING EFFECT

VEINOPLUS® TREATMENT IMPROVES PATIENTS OVERALL QUALITY OF LIFE

REDUCTION OF NEGATIVE IMPACT OF VENOUS INSUFFICIENCY



Improvement of patients' quality of life with VEINOPLUS®²

1- ZUCCARELLI F. et al. Activation of the calf muscle pump action by electro-stimulation with VEINOPLUS® device. Angéiologie (2005)

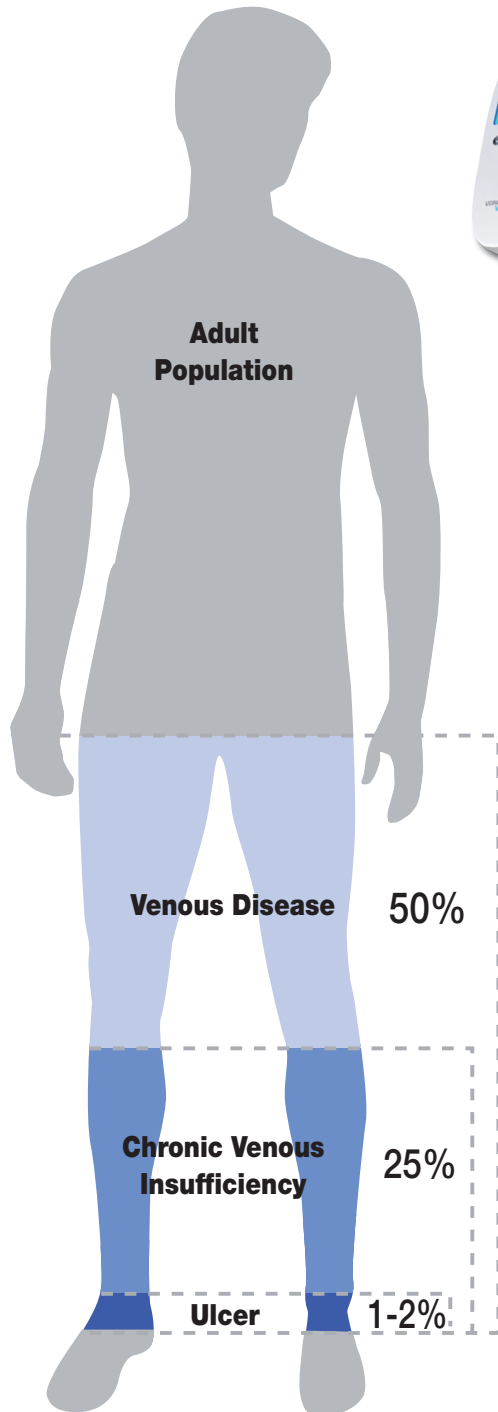
2- LE TOHIC A et al. Effects of electrostimulation VEINOPLUS® on lower limbs venous insufficiency-related symptoms during pregnancy. Gynécologie Obstétrique Fertilité (2008)

3- BOGACHEV V.Y et al : Electromuscular stimulation with VEINOPLUS for the treatment of chronic venous edema. International Angiology (2011).

CEAP: international classification for chronic venous disorders



WHO IS CONCERNED?



**INDICATIVE
NUMBER
OF SESSIONS**

**1-2
PER DAY**

**2-3
PER DAY**

**≥ 3
PER DAY**

MEDICAL INDICATIONS

- Pain in legs, swelling of legs... (CEAP 0s)
- Prophylaxy of VI during pregnancy
- Professions at risk (flight crew, waiters, surgeons...)
- Prolonged standing or sitting
- Evening edema
- Night cramps (in case of, or presumably of venous origin)
- Restless legs

- Small varicose veins (CEAP C1)²
- Small vein post-sclerotherapy^{1,2}
- Long haul flights
- Leg immobilization (plaster...)¹
- Recurrent edema

- Large vein sclerotherapy or stripping^{1,2}
- Varicose veins (CEAP C2)^{1,2,3}
- Significant venous edema (CEAP C3)^{1,2}
- Severe symptoms of CVI (CEAP C4, C5)^{1,2}
- Post-thrombotic syndrome especially in case of high DVT risk (long sitting position in car, train, etc^{1,2,3})
- Non-healed venous ulceration (CEAP C6)^{1,2,3}

1. with doctor's prescription

2. in combination with compression garments

3. according to individual conditions, please consult us

CEAP: international classification for chronic venous disorders

During pregnancy:

Recent clinical data* have shown that VEINOPLUS® is:

- Harmless for both mother and fetus
- Efficient for venous insufficiency related symptoms
- Very well tolerated by patients

* LE TOHIC A et al. Effects of electrostimulation VEINOPLUS® on lower limbs venous insufficiency-related symptoms during pregnancy. Gynécologie Obstétrique Fertilité (2008)

OUR TECHNOLOGY

Venous
Disease



VEINOPLUS® was developed by Dr. Jozef Cywinski whose research in neurostimulation is the foundation for the NS-4 safety standard for stimulators. Dr Cywinski has 30 years experience in neuromuscular stimulator development. This has led to the design of several medical devices for stimulation including cardiac stimulators that are today used by numerous healthcare professionals such as cardiologists, sport doctors and physiotherapists. Dr. Cywinski is a fellow of the American College of Cardiology and former faculty member of Harvard & MIT universities.

The VEINOPLUS® Technology is EFFICIENT, SAFE and EASY TO USE.

VEINOPLUS® has specific and optimized stimuli characteristics **which are uniquely capable of therapeutic effects on venous disease**. In addition to being effective, the VEINOPLUS® Technology stimulation is very safe: unlike other stimulators, VEINOPLUS® shows no interference with uterine contractions and fetus cardiac rate during pregnancy.

VEINOPLUS® meets the most stringent safety standards established in the US by Association for the Advancement of Medical Instrumentation and American National Standard Institute (AAMI/ANSI NS-4 1986/2002).

VEINOPLUS®

Interventional treatment
Compression



**THE NEW METHOD
FOR THE TREATMENT
OF VENOUS DISEASE**



VEINOPLUS®

www.veinoplus.com

AD REM TECHNOLOGY

Certified ISO 13485:2003

162, rue du Faubourg St-Honoré

75008 Paris - FRANCE

Tel: +33 (0)1 42 60 00 22

Fax: +33 (0)1 42 60 00 63

Contact: info@veinoplus.com

VEINOPLUS® is a registered trademark of Ad Rem Technology

©Copyright 2012 Paris - Ad Rem Technology

Distributed by

VEINOPLUS® complies with
AAMI-ANSI NS-4:1986/ ©2002,
IEC 60601-1 and
IEC 60601-2-10 Standards,
as well as with the
CE Council Directive
93/42/EEC
Patent: FR 2 869 808 B
US Patent : 8,175,713

 0535