The new treatment for Venous Insufficiency

* Clinically proven efficacy
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.

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

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

F. Zuccarello, J. Launat, J. Le Magre, R. Molland, P. Fargier, M. Pluq
In Angiologie, 2005, volume 57, N°2, p48-54

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

A. Le Tich, H. Bastian, M. Pluq, P. Beslot, R. Molland, P. Madeleine
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., Kuznetsov A.H., Stchenkian 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)
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.
**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

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**STASIS REMOVAL**
VENOUS VOLUME IN LOWER LIMB
MEASURED WITH APG*

Venous volume decrease after starting VEINOPLUS® stimulation

**FLOW INDUCED**
Flow induced in gastrocnemial & s.saphenae vein in patient with V.I.

**FLOW INDUCED**
Flow induced in popliteal vein in patient with V.I.

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**AUGMENTATION OF VENOUS BLOOD**
VOLUME EXPELLED

<table>
<thead>
<tr>
<th>Baseline Without Stimulation (passive)</th>
<th>One V+ stimulation / sec</th>
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<tbody>
<tr>
<td>50</td>
<td>350</td>
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</table>

**AUGMENTATION OF VENOUS BLOOD**
VELOCITY

<table>
<thead>
<tr>
<th>Baseline Without Stimulation (passive)</th>
<th>One V+ stimulation / sec</th>
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<tbody>
<tr>
<td>10</td>
<td>50</td>
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</tbody>
</table>

*V.I.: Venous Insufficiency - 1Measured with APG: Air Plethysmography
CLINICAL RESULTS

PAIN
VEINOPLUS® ALLOWS IMMEDIATE AND LONG-LASTING PAIN RELIEF

Reduction of pain in legs of venous insufficient patients¹ ² (CIVIQ test results)

EDEMA
VEINOPLUS® REDUCES LOWER LIMB EDEMA IN PATIENTS WITH VENOUS INSUFFICIENCY

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

Improvement of patients’ quality of life with VEINOPLUS®³

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

CEAP: international classification for chronic venous disorders
WHO IS CONCERNED?

MEDICAL INDICATIONS

1-2 PER DAY

- Pain in legs, swelling of legs… (CEAP 0s)
- Prophylaxis 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

2-3 PER DAY

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

≥ 3 PER DAY

- 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 VEINOPPLUS® is:

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

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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® is a registered trademark of Ad Rem Technology

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VEINOPLUS® complies with
AAMI-ANSI NS-4:1986/ ©:2002,
IEC 60601-1 and
IEC 60601-2-10 Standards,
as well as with the
93/42/EEC
Patent: FR 2869 808 B
US Patent : 8,175,713