

Ordering Information

Products and Description

Art.-Nr.	Description
VXSY-10-1	VADOpnex System (device of the newest generation)
VXFP-05-1-L	Box with 5x Pairs of VADOpnex Foot Pads, size Large (42-47)
VXFP-05-1-M	Box with 5x Pairs of VADOpnex Foot Pads, size Medium (37-41)
VXCP-03-1	Box with 10 Pieces of VADOpnex Undercast Pads*
VXHP-04-1-LI	Box with 10 Pieces of VADOpnex Hand Pads, left
VXHP-04-1-RE	Box with 10 Pieces of VADOpnex Hand Pads, right

* VADOpnex treatment in conjunction with VACOped & VACOcast

Information

OPED specialists are happy to present and demonstrate how you can benefit from using VADOpnex and VACOpnroducts.

Further information is available on our homepage: www.oped-international.com



VADOpnex Advantages at a Glance

- Significant improvement of arterial circulation and tissue oxygenation^{*2, *3, *6}
- Effective treatment of claudicatio intermittens^{*5}
- Strong healing support for chronic ulcers of any origin^{*4}

VADOpnex [®] by OPED
VASCULAR IMPULSE TECHNOLOGY

Treatment of arterial Diseases and chronic Ulcers



OPED – Keeps you going.

We at OPED are experts in medical technology. All our high quality orthopaedic rehabilitation products are developed and designed in Germany.

Our goal: A mobile patient.

www.oped-international.com



Keeps you going.

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Abstracts of Studies reference A-V Impulse System™ and study^{*2 *4} VADOpnex Intermittent Impulse System



Keeps you going.

Intermittent Impulse Compression IIC

IIC by VADOPlex is a further development of IPC devices. Unlike the slow compression of other IPC devices, the compression of VADOPlex is fast like an impulse.

A pressure of 130 mmHg is applied within only 0.4 seconds every 20 seconds, which is called Intermittent Impulse Compression (IIC)^{*1 *2}.

This makes a significant difference, because IIC provenly improves tissue oxygenation and triggers ulcer healing. Patients with PAOD, poor tissue oxygenation and/or chronic wounds of any origin, benefit from the treatment with VADOPlex.

^{*1} Gardner, A. M., & Fox, R. H. (1992). The venous foot pump: influence on tissue perfusion and prevention of venous thrombosis. *Annals of the Rheumatic Diseases*, 51(10), 1173-1178.

^{*2} Thorn, C. E., Adio, A. O., Fox, R. H., Gardner, A. M., Winlove, C. P., & Shore, A. C. (2021). Intermittent compression induces transitory hypoxic stimuli, upstream vasodilation and enhanced perfusion of skin capillaries, independent of age and diabetes. *Journal of Applied Physiology* (Bethesda, MD, 1985), 130(4), 1072-1084.

^{*3} Abu-Own, A., Cheadle, T., Scurr, J. H., & Coleridge Smith, P. D. (1993). Effects of intermittent pneumatic compression of the foot on the microcirculatory function in arterial disease. *European Journal of Vascular Surgery*, 7(5), 488-492.

^{*4} Eberlein, T., Schmitz, M. (2020). Micro-Environmental Changes in Wounds are Significantly Influenced by Intermittent Pneumatic Impulse Compression (IIC). *Biomedical Journal of Scientific & Technical Research*, 26(1).

^{*5} Delis, K. T., Nicolaides, A. N., Wolfe, J. H. N., Stansby, G. (2000). Improving walking ability and ankle brachial pressure indices in symptomatic peripheral vascular disease with intermittent pneumatic foot compression: A prospective controlled study with one-year follow-up. *Journal of Vascular Surgery*, April 2000 (31), S. 650-661.

^{*6} Michael S. Conte, MD (Co-Editor), Andrew W. Bradbury, MD (Co-Editor), Philippe Kolh, MD (Co-Editor), John V. White, MD (Steering Committee), Florian Dick, MD (Steering Committee), Robert Fritridge, MBBS (Steering Committee), Joseph L. Mills, MD (Steering Committee), Jean-Baptiste Ricco, MD (Steering Committee), Kalkunte R. Suresh, MD (Steering Committee), M. Hassan Murad, MD, MPH, and the GVC Writing Group (2019). Global vascular guidelines on the management of chronic limb-threatening ischemia. *Journal of Vascular Surgery*, 69(6), 3525S.e40.

Benefits

- New generation of device offers fast, easy & safe application
- Due to the impulse compression, high levels of nitrogen oxide (NO) is released by the endothelium, leading to significant improvement of microcirculation, tissue oxygenation and new vessel formation^{*1 *2 *3 *4 *5}
- Supports healing of chronic wounds, including diabetic foot ulcers^{*3 *4}
- Clinical data prove, IIC triggers capillary recruitment after only 30 minutes of treatment, for a better oxygenation^{*2}
- Treatment with IIC technology provenly leads to sustainable improvement of walking distance and tissue perfusion in patients with claudication intermittans^{*5}
- The use helps to reduce the risk of amputation, also in patients where re-vascularization failed^{*6}



Controller



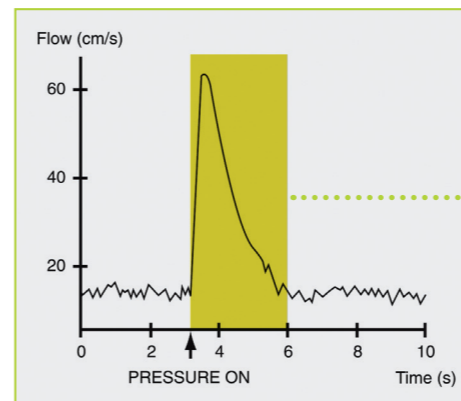
Foot Pads



Undercast Pad

Applicable for

- Treatment of peripheral arterial occludent disease (PAOD) including non-revascularisable situations
- Claudicatio intermittans
- Diabetic foot syndrome and chronic wounds/ulcers of any origin



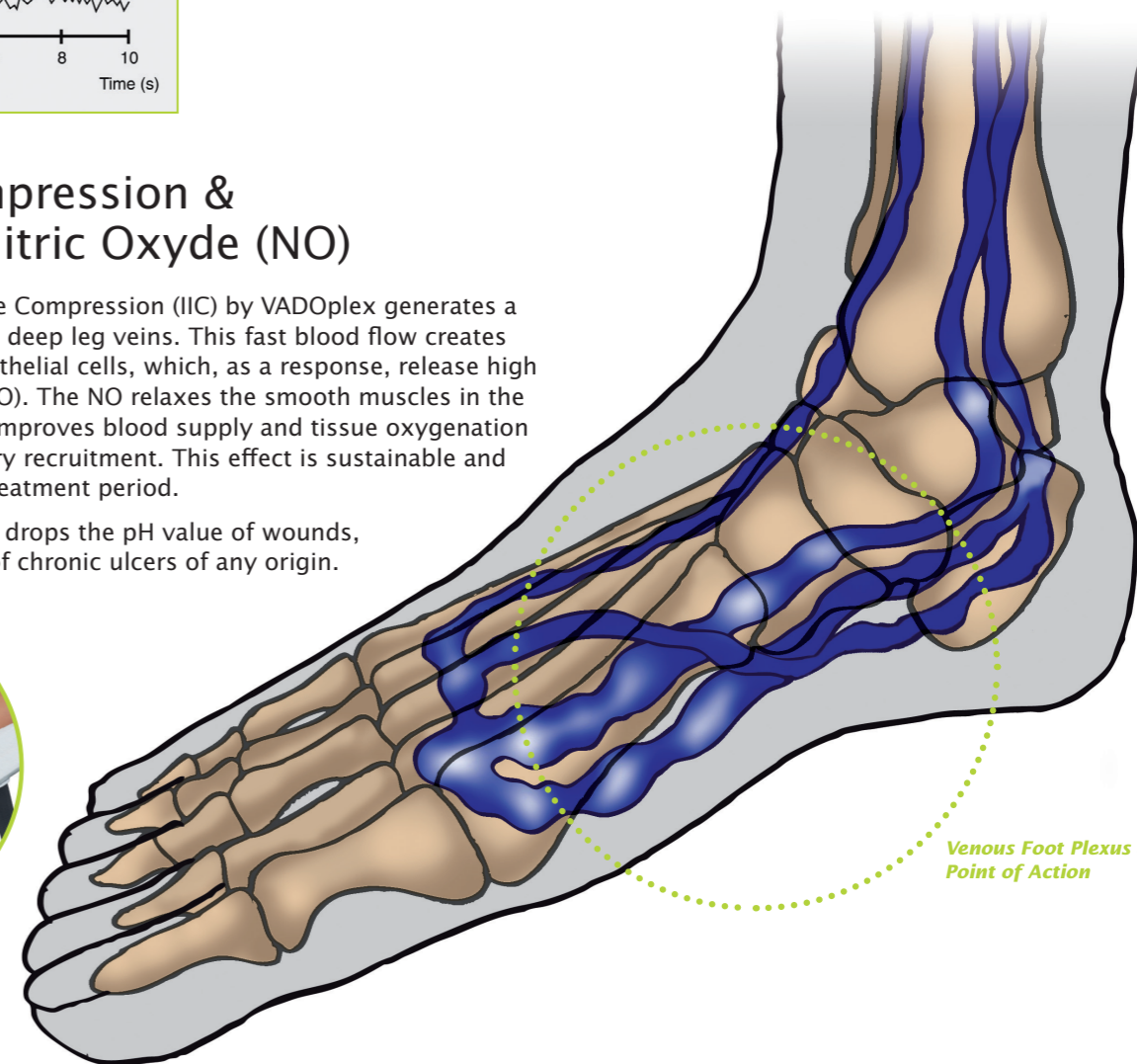
Flow in V. femoralis during Foot Impulse Compression

Impulse Compression & the Role of Nitric Oxyde (NO)

The Intermittent Impulse Compression (IIC) by VADOPlex generates a jet-like flow through the deep leg veins. This fast blood flow creates shear stress to the endothelial cells, which, as a response, release high levels of nitric oxide (NO). The NO relaxes the smooth muscles in the small arterioles, which improves blood supply and tissue oxygenation but also triggers capillary recruitment. This effect is sustainable and continues beyond the treatment period.

IIC by VADOPlex further drops the pH value of wounds, which triggers healing of chronic ulcers of any origin.

VADOPlex® by OPED
VASCULAR IMPULSE TECHNOLOGY



Venous Foot Plexus = Point of Action