

Endotherme™



Endovenous laser treatment of the incompetent saphenous veins:

- Small and great saphenous veins
- Diameter from 4mm

Technique:

Endovenous treatment based on thermo-occlusion and carried out thanks to:

- 1 Laser device, equipped with a diode (980nm, 25 Watts)
- 1 Single use 600µm fibre optic
- **1 OsyPilot:** guides the physician's gesture throughout the laser shot procedure to guarantee a good dosimetry.



Advantages of Endovenous laser:

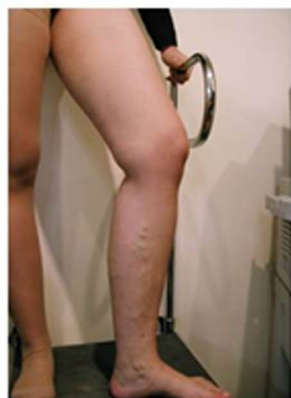
- "Lighter" than traditional surgery
- A quick procedure
- Local anesthesia
- Painless
- No post-op side effects
- No downtime
- Possibility for the patients to walk right after the procedure

Laser vs Radiofrequency:

	Laser	Radiofrequency
Success rate *see meta analysis	95%	80%
Indications	wider: Treatment of more delicate veins Treatment of small saphenous veins	limited: The long heating segment can make trouble when treating certain veins
Dosimetry	The delivered energy is adjustable depending on the type and depth of the vein	Treatment parameters are fixed
Treatment	More accurate localization	More diffuse treatment
Post-op *see meta analysis	Less painful Presence of dysesthesia: 1,7%	More painful Presence of dysesthesia: 11%
Cost of disposable	Lower	Higher

* Carradice D, Chetler I. Laser venous interventions. *Vascular Disease Management* 2009 ; 6 (2) : 41-6

Before / After:



Results after 3 months



Results after 40 days



Photo courtesy of Dr Anido, angiologist, Paris

Dr Jacques Desmytère, angiologist, Lomme:

"Endotherme "has reigned" over our endovenous laser practice for about 8 years... Its reliability, its ease of use and the outstanding readability of its parameters made possible thanks to its large screen, bring serenity and safety for the entire medical and paramedical team."

Published studies:

Endovenous 980-nm laser treatment of saphenous veins in a series of 500 patients.

J. Desmytère, MD, C. Grard, MD, B. Wassmer, MS,
S. Mordon, PhD

J Vasc Surg. 2007 Dec;46(6):1242-7.
Lomme. Hellemmes and Lille

→ The occlusion success rate of the saphenous vein after 4 years exceeds 97%.

Endovenous 980-nm laser treatment of saphenous veins in a series of 500 patients

Jacques Demeyre, MD,¹ Christophe Cras, MD,² Benjamin Wamser, MSc,³ and Serge Mordon, PhD,¹ Lyons, Hôpital, and La, France

Background: In recent years, endocrine-free breast cancer (EBF) has been proposed to treat breast cancer patients with endocrine therapy. However, the clinical significance of EBF is still unclear. The aim of this study was to evaluate the clinical significance of EBF in breast cancer patients.

Methods: A total of 100 breast cancer patients were enrolled in this study. The patients were divided into two groups: the EBF group (50 patients) and the non-EBF group (50 patients). The patients in the EBF group were treated with endocrine therapy (tamoxifen or toremifene) and the patients in the non-EBF group were treated with chemotherapy (cyclophosphamide, epirubicin, and fluorouracil). The patients were followed up for 12 months. The primary endpoint was the overall survival rate. The secondary endpoints were the disease-free survival rate, the time to recurrence, and the time to progression.

Results: The overall survival rate was significantly higher in the EBF group than in the non-EBF group ($P = 0.001$). The disease-free survival rate was also significantly higher in the EBF group than in the non-EBF group ($P = 0.001$). The time to recurrence was significantly longer in the EBF group than in the non-EBF group ($P = 0.001$). The time to progression was significantly longer in the EBF group than in the non-EBF group ($P = 0.001$).

Conclusion: EBF is a promising treatment option for breast cancer patients. The results of this study suggest that EBF may be a better treatment option than chemotherapy for breast cancer patients. Further studies are needed to confirm these results.

[illegible]

A lot more studies to consult on:
www.osyrismedical.com/international/publications.php

Technical specifications:

Laser:	Diode
Wavelength:	980 nm
Max power:	25 Watts
Emission mode:	Continuous and pulsed
Cooling system:	Peltier & Air
Laser Class:	Class 4
Weight:	15 kg
Dimensions:	H 45cm xL 45cm x l 35cm

OSORIS MEDICAL

Parc de la Haute Borne
60, Avenue Halley
59650 VILLENEUVE D'ASCQ - France

Tel.: +33 (0)3 20 67 90 00
Fax: +33 (0)3 20 04 46 24
E-mail: osyris.medical@osyris.com



www.osyrismedical.com

