



**Founded in 2002, LSO Medical is a French company based in Loos, pioneer and expert in the Endovenous Thermal Therapy field.**

With more than 20 years' experience, LSO Medical has become a **key player** in the design, production and marketing of **medical laser systems**.

Constantly aiming at exploiting and bringing technological innovations to doctors and their patients, LSO Medical is today **one of the world leaders** in the endothermic laser technique through :

- › its key involvement in the technology development with a large number of national and international patents filed
- › a sustained activity in clinical research for the development, validation and optimization of products and surgical protocols



## EVOLUTION OF THE ENDOVENOUS THERMAL ABLATION TECHNIQUES

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The last years have been marked by the emergence of **new endovenous thermal techniques** for the treatment of varicose veins, approved by the international guidelines (AVF 2011, NICE 2013, ESVS 2015).

Among the endothermic treatments, the **Endovenous Laser Treatment (EVL)** is quickly becoming the **gold standard** in the treatment of venous insufficiency.

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## WHY CHOOSE THE ENDOVENOUS LASER TREATMENT ?

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### Unique and unrivaled properties

- › The accurate targeting of the Endovenous Laser and the absence of a need for a fiber-vein contact allow a high precision and reproducibility in the treatment, as well as a large range of indications.

Endovenous laser treatment is indicated for:

- The small and the great saphenous vein
  - Perforating veins
  - Veins with a diameter from 4 mm, even with a large diameter (> 20 mm)<sup>[1]</sup>
- › By its property of being minimally invasive, EVLT is performed on an outpatient basis and under local anesthesia.



### Clinically validated

- › More than 15 years of scientific background in terms of efficacy and safety.
- › Success rate on 4876 legs<sup>[2]</sup>: 94% for the EVLT (vs 84% for RFA, 77% for sclerotherapy and 78% for surgery respectively on 2514, 2126 and 2804 legs).



### Optimal patient comfort

- › Post-operative consequences with EVLT are limited: no scars, no post-operative pain, no downtime.
- › The patient can walk immediately and resume their activities very quickly.

<sup>[1]</sup> Dabbs et al. 2015    <sup>[2]</sup> Van den Bos et al. 2009



# LUMESAL® PLATFORM & SNAKEBACK TECHNOLOGY

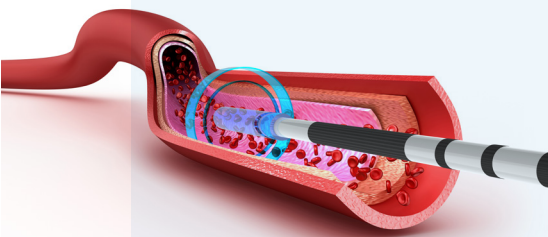


Designed to enhance ease-of-use and to provide greater precision and control throughout the procedure, Lumeseal is announced as the successor of the Endotherme 1470 platform.

The third-generation laser system incorporates the same 1470nm laser design combined with the Ringlight fibres range design. In addition, Lumeseal incorporates the last patented innovation of the company: the SnakeBack technology.

SnakeBack is a tensionless assisted pullback system, able to plan, apply and monitor energy profiles delivery into the vein.

## The Ringlight® fibers

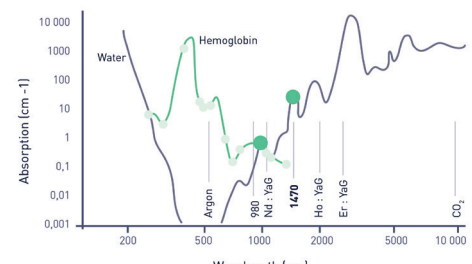


The Ringlight® fibers range, designed by LSO Medical, allows an homogenous destruction of the vein wall exclusively.

The Ringlight® fibers range, with the encapsulated tip, smooth and atraumatic, avoids perforations of the vein wall when the fiber is introduced.

## High technology achievement

The operation of the EVLT consists of the delivery of light with a wavelength of 1470 nm, inside the vein.



- › The 1470 nm wavelength light is highly absorbed by the water present in the vein wall, not on the outer tissues.
- › The local elevation of temperature on the vein wall induces a denaturation of the proteins, a reduction of the venous diameter and an adhesion of the vein walls, leading to the definitive closure of the vein.

## LSO Medical is your partner to accompany your new EVLT activity!

- › Local contact in more than 50 countries
- › Evaluation of equipment requirements and financial engineering
- › Initiation and continuous learning within Training Centers and interaction with expert physicians
- › Equipment installation and assistance for the first laser procedures with Application Engineers



# THE KEY VALUES of LSO MEDICAL

## Research & innovation



- › LSO Medical's focus is to continuously improve its products, in order to increase their efficacy, their security and their ergonomics.
- › LSO Medical puts the end users at the center of its concerns. Therefore, the company attaches a great importance to collaborating with physicians in order to develop equipment that meets their expectations.
- › LSO Medical relies on a creative and innovative R&D team to develop new products. The company works in a close partnership with French research institutes, such as CNRS or INSERM.

## Customer satisfaction



- › Committed to customers satisfaction, LSO Medical is dynamic, responsive and available for its clients.
- › Thanks to international distributors, the French company offers worldwide support in the implementation of new laser activities, through requirements evaluation, financial engineering and trainings.
- › The rigorous control of their production costs allows LSO Medical to be competitive on the international market, by offering attractive prices for its equipment and disposables.

## Quality & performance



- › LSO Medical is focused on quality, all along its process, from the conception of the medical devices to the after-sales service.
- › Made in France, the products are compliant with the international standard ISO 13485.
- › LSO Medical's equipment has also the most rigorous registration approvals (CE mark, UKAS, FDA, KFDA, PMDA) at international level.

- › **More than 100 000 laser procedures performed with LSO Medical's equipment**
- › **International presence in more than 50 countries**



**LSO**  
MEDICAL



## Interested in LSO Medical's equipment and services ?

For more information :  
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