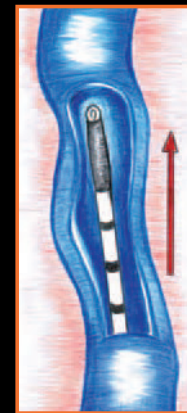


EVLT BREAKTHROUGH

EVLT (Endovenous Laser Treatment) is a procedure leading to occlusion of varicose veins. It involves putting a fiber optic into a saphenous vein through a catheter. Then the laser is turned on and slowly withdrawn from the vein. Thanks to light-tissue interaction mainly thermal effects occur, the tissue is heated and the walls of the vein shrink, because of alteration of endothelium and contraction of collagen. There are two possibilities of performing the treatment: with pulsed and continuous-wave laser operation. Using the pulsed operation also the fiber is withdrawn step by step. A better choice is to use continuous-wave laser and to withdraw the fiber also continuously, what provides more homogenous illumination of the vein, less tissue damaged outside the vein and better results. The therapy is just a beginning of the occlusion process. After the treatment the veins are shrinking for several days or weeks. That is why in the long period observation very good results are obtained. The main advantage of EVLT is that it is a non-invasive technique in contrast to surgical treatments. It also does not involve hospital stay and can be performed in an ambulatory conditions with local anesthesia and lasts for less than 1 hour. After the procedure patient does not have any unsightly incisions and scars.



Thanks to diffuse illumination the maximum energy density is directed to the walls of the vein near the fiber and cause immediate occlusion, on the contrary to the bare fibers used so far.



WHY LASOTRONIX?

- Over twenty years of experience in laser technology
- **SMART^{MSG}** provides choice of 4 possible wavelengths: 635nm, 980nm, 1470nm or 1940nm, and 2 types of fibers: with open end or diffuse emission.
- Cutting edge technology.
- Extendable database of predefined therapy protocols which can be modified and assigned to a patient.
- Lowest operating costs.
- Very compact and small-sized device.
- Flexibility of development other customized parameters and OEM products



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www.lasotronix.com

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LASER SMART^{MSG} SG

...BE SMART... START AND FEEL THE DIFFERENCE!



ALL - IN - ONE





Handy Grip



Touch screen interface

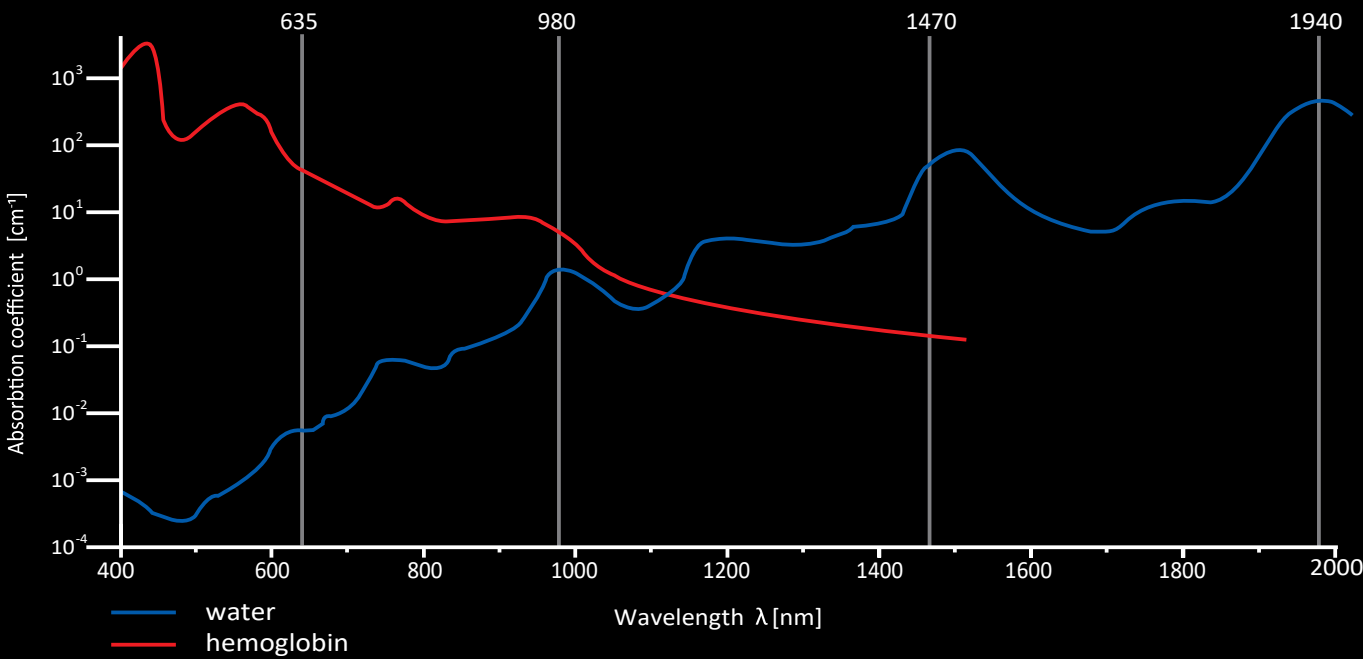


Professional fibers

WHAT WAVELENGTH IS RECOMMENDED?

For minimally invasive endovenous laser ablation - EVLT, Lasotronix offers diode lasers emitting radiation at different wavelengths: 980nm, 1470nm or 1940nm with the possibility of their further expansion with additional light sources.

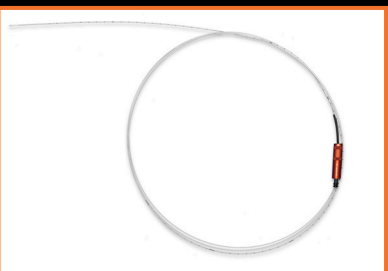
As can be seen in the diagram, for 980nm radiation, the absorption coefficient is higher for hemoglobin than for water. For 1470nm, especially 1940nm, the opposite is true and water absorbs light radiation many times better than hemoglobin. Both of these chromatophores are components of human tissues, including blood and vascular walls. Lasers with a wavelength of 980nm have been used on a large scale for over 20 years and the average power used during treatments is 10-12W. Using 1470nm wavelength, smaller powers are needed - at 6-8W, and for 1940nm wavelengths 4-6W is enough to perform an effective surgery. Reducing the amount of power needed, makes these lasers much safer and predictable tools for the doctor, while giving patients faster and more comfortable recovery.



ACCESSORIES



EVLT disposable or reusable bare fiber, SMA905 connector/open-ended, 400µm or 600µm fiber core



EVLT diffuse emission disposable optical fiber, SMA905 connector, 400µm or 600µm fiber core



Lock Adapter for EVLT Catheter



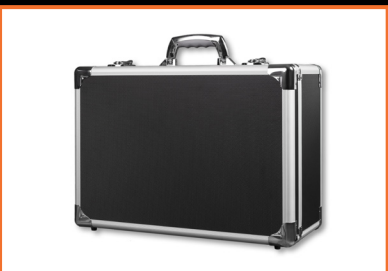
Disposable or reusable bare fiber, SMA905 connector/open-ended, 400µm or 600µm fiber core



Catheter set for diffuse emission fibers



Safety glasses



Convenient carrying case



SMARTKEY – USB key, database, manual and safety key in one



Complete set: laser and its accessories



Footswitch



Emergency stop



Comfortable workstation

ADVANTAGES & SPECIFICATION

THERE ARE MANY ADVANTAGES OF CHOOSING EVLT TO TREAT YOUR VARICOSE VEINS:

- High success rate
- Immediate relief of symptoms
- Immediate aesthetic results
- Little to no downtime – patients are able to walk and resume normal activities the same day
- Minimal to no visible scarring
- Lower percentage of recurrence compared to more invasive treatments such as vein stripping
- Completed within an hour
- Performed as an outpatient procedure in an office setting
- Fewer complications

SMART ^{MI} SG CONFIGURATION	APPLICATIONS			
	EVLT	MICRO	BIO	AESTHETIC
980nm	✓	✓ ✓ ✓		✓
1470nm	✓ ✓	✓		✓
1940nm	✓ ✓ ✓			
980nm + 635nm	✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓
1470nm + 635nm	✓ ✓	✓	✓ ✓ ✓	✓ ✓
1940nm + 635nm	✓ ✓ ✓		✓ ✓ ✓	✓
1470nm + 980nm	✓ ✓	✓ ✓ ✓		✓ ✓
1470nm + 980nm + 635nm	✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓

✓ Standard

✓ ✓ Gold

✓ ✓ ✓ Platinum