

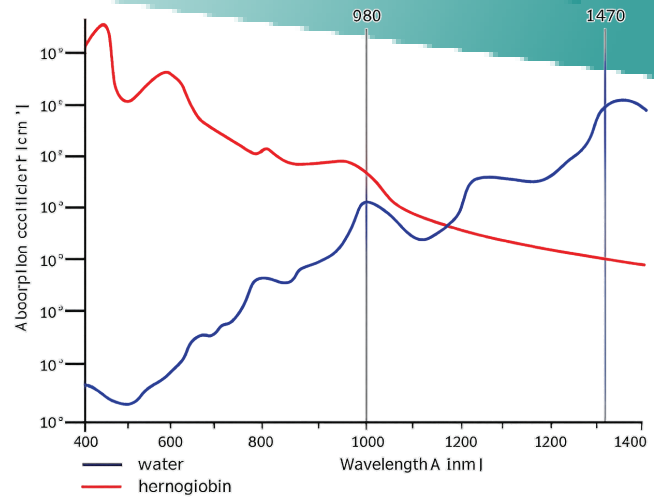
Lasotronix SMART™ SG



WHAT WAVELENGTH IS

RECOMMENDED?

We offer lasers with 980 nm radiation or 1470 nm for EVLT. As seen on the chart, the absorption coefficient is higher for hemoglobin than for water for 980 nm radiation. For 1470 nm, the situation is the opposite, and water absorbs the radiation better than hemoglobin. Both of these media are components of human tissues, including blood and the walls of the veins



Lasers with 980 nm radiation have been widely used for over 15 years for EVLT, and the appropriate power for a treatment with this wavelength is about 10-12 W. Using 1470 nm radiation, less power is needed; it happens that about 6-8 W is enough, which makes lasers with this wavelength safer

Why lasotronix ?

- Advanced Smart Presets
- Ultra-Compact & Lightweight Design (2.5 kg)
- Designed for Hospitals & Private Clinics
- International Certifications & Regulatory Compliance
- Integrated Patient & Procedure Database
- No Fiber Time Limitation

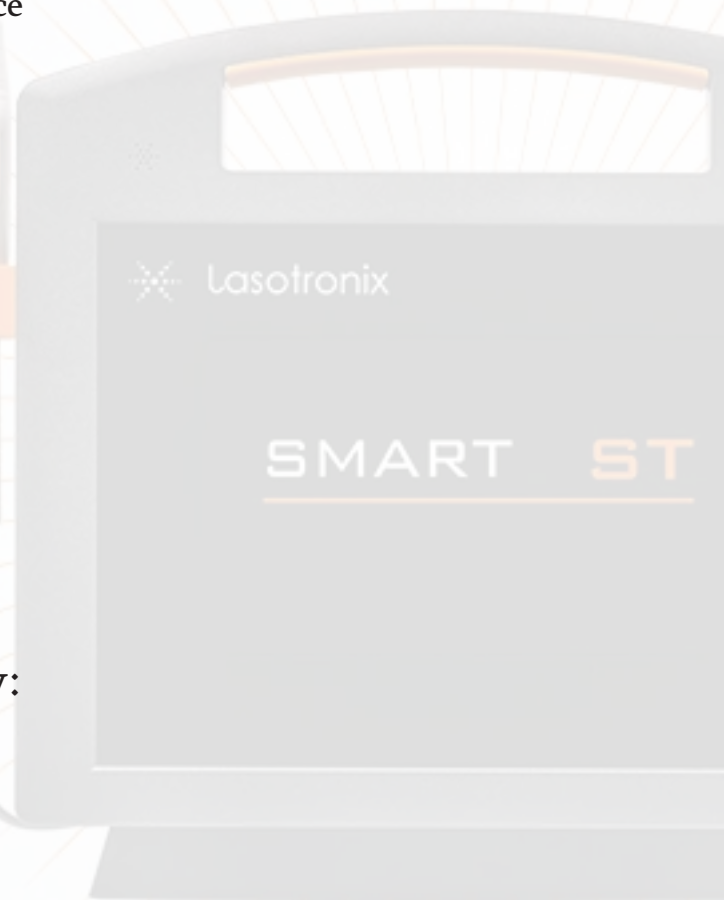
What laser provides ?

Conventional Procedures Challenges:

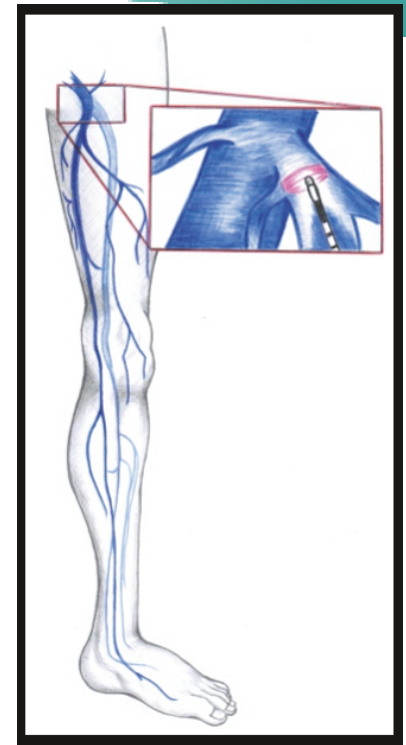
- Bleeding
- Post-operative pain
- Long recovery time
- High recurrence rate
- Patient dissatisfaction

Diode laser solve all these challenges by:

- Bloodless surgery
- Less pain
- Faster recovery
- Shorter procedures
- Higher patient satisfaction

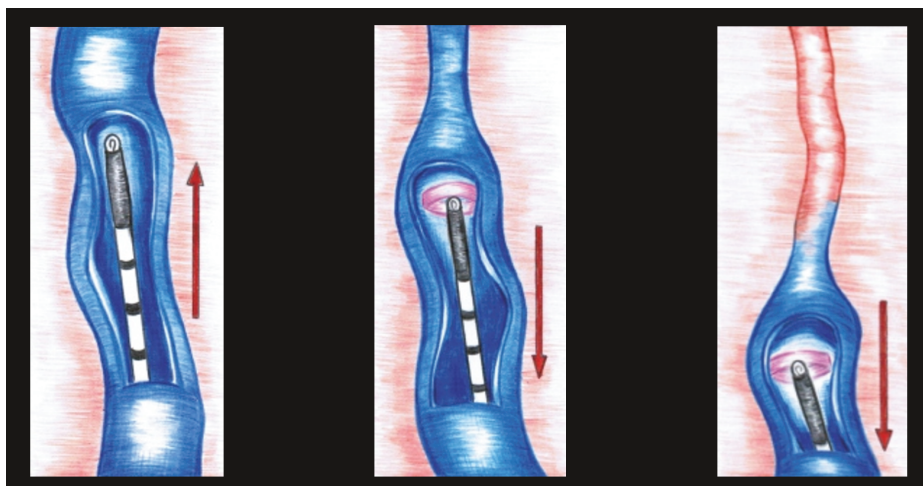


EVLT (Endovenous Laser Treatment) is a procedure that leads to the occlusion of varicose veins. It involves inserting a fiber optic into a saphenous vein through a catheter. The laser is then turned on and slowly withdrawn from the vein. Thanks to light-tissue interaction, primarily thermal effects occur. The tissue is heated, and the vein walls shrink due to alteration of the endothelium and contraction of collagen. There are two ways to perform the treatment: with pulsed and continuous-wave laser operation. With pulsed operation, the fiber is also withdrawn step by step. A better option is to use a continuous-wave laser and withdraw the fiber continuously, which provides more uniform illumination of the vein, less damage to the surrounding tissue, and better results. The therapy is just the beginning of the occlusion process. After treatment, the veins shrink for several days or weeks. This is why very good results are obtained with long-term observation.



The main advantage of EVLT is that it's a non-invasive technique in contrast to surgical treatments. It also doesn't involve a hospital stay and can be performed in an ambulatory setting with local anesthesia, lasting less than one hour. After the procedure, the patient has no unsightly incisions or scars

Thanks to radial illumination the maximum energy density is directed to the walls of the vein near the fiber and cause immediate occlusion. The simple bare fiber is also possible to use, but it is less effective more traumatic and requires more optical power.



WHY LASOTRONIX?

Over twenty years of experience in laser technology.

SMARTM provides a choice of two possible wavelengths: 980 nm or 1470 nm, and two fiber types: open-end or radial.

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 for developing other customized parameters and OEM products

dijla

medical

sharing innovation



info@dijla-medical.com
www.dijla-medical.com



Erbil / italy2 / office279
Baghdad / ALYarmouk



07755459000
07755459000