

ELVeS[®] PainLess

The Gentle Standard in Endovenous Therapies



Endo Laser Vein System

bio[®]
LITEC
biomedical technology



The ELVeS[®] PainLess

A unique and complete solution for the treatment of venous incompetence ...

Venous reflux disease is a common condition. Up to 40% of women and 20% of men suffer from symptoms such as fatigue, pain and swelling of lower limbs. Primary causes include congenital connective tissue weakness, hormonal changes and long periods of standing and sitting. Impaired veins can be more than a cosmetic problem. Left untreated venous reflux disease can progress to skin changes, discoloration, inflammation and venous ulcer.

biolitec – a global pioneer in state-of-the-art medical laser technology – introduces ELVeS[®] PainLess, a versatile and easy to use system allowing for minimally invasive treatment of venous reflux disease.

The treatment can be performed on an outpatient basis under tumescent local anesthesia with key benefits for your patients ...

- ***maximum patient comfort – less post-operative pain, bruising and swelling***
- ***excellent medical and cosmetic results***
- ***quick return to normal activities***
- ***short treatment time***

ELVeS® PainLess

A fast and effective treatment of ...

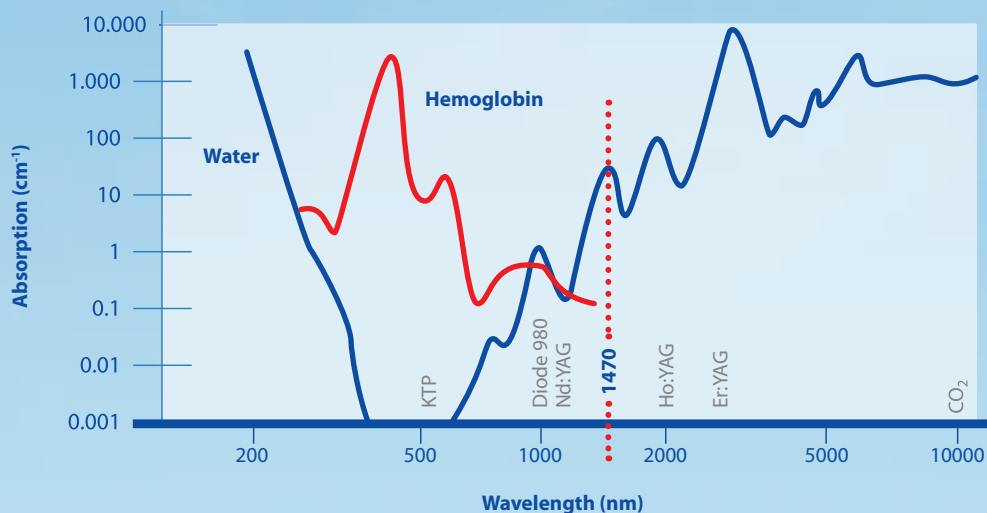
- **Greater saphenous vein**
- **Small saphenous vein**
- **Perforating Veins**
- **Recurrences**
- **Ulcus Cruris**

ELVeS® PainLess offers the optimum treatment solution for an effective and gentle endovenous laser therapy and is setting new standards for patients and users.

The ELVeS® PainLess system features a patented design for a safe and simple approach – performing endovenous laser therapy has never been more convenient.

Delivering homogenous laser emission based on a unique and patented distal design, ELVeS® PainLess minimizes the risk of vein perforations and assures high echogenic visibility.

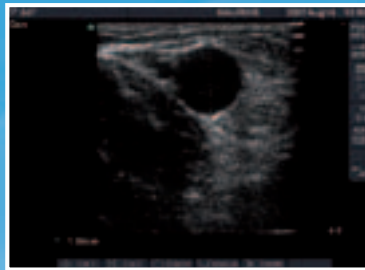
The 1470nm laser energy is preferentially absorbed in the intracellular water of the vein wall and in the water content of blood. The irreversible photo-thermal process induced by the laser energy results in a complete occlusion of the treated vein.



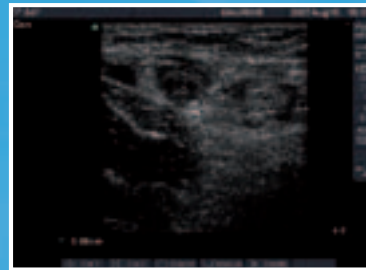
The absorption coefficient of water at 1470nm is significantly higher than in the wavelength range of 810 – 1064nm.

The ELVeS® PainLess procedure minimizes any post-operative inflammatory pain and bruising, due to a 40 times or greater absorption coefficient in water compared to 810nm-980nm lasers targeting hemoglobin. Incompetent veins treated with ELVeS® PainLess showed a 30-40% reduction in vein diameter one day after the procedure as well as highest occlusion rates in a D1, D10, D30, 6 and 12 months follow-up.*

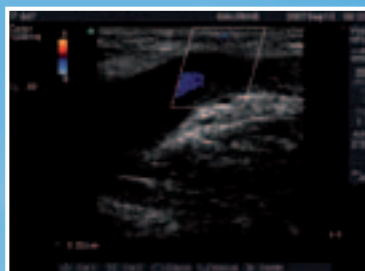
*Dr. Uldis Maurins, Riga, Latvia



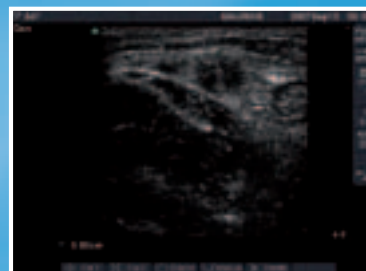
Ultrasound image: pre-op day 0



Ultrasound image: post-op day 1



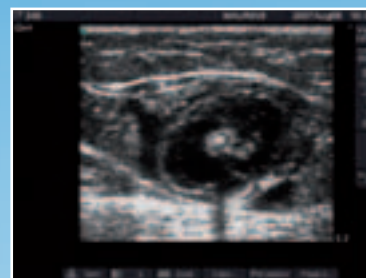
Ultrasound image: post-op day 30



Ultrasound image: post-op day 30

The ELVeS® PainLess procedure ...

- The ELVeS® PainLess procedure is performed under ultrasound guidance and Tumescence Local Anesthesia (TLA).
- Following percutaneous entry into the saphenous vein the ELVeS® applicator system is advanced towards the saphena-femoral junction.
- The laser procedure is carried out along the entire length of the incompetent vein under continuous pull back of the ELVeS® applicator system.
- The complete treatment takes about 30-45 minutes; patients can return to normal activities immediately.
- Bi-lateral ELVeS® PainLess treatments or combined GSV & SSV procedures can be performed during the same session.



Why ELVeS® PainLess ...

In the area of laser medicine biolitec stands for state-of-the-art diode laser and optical fiber technology.

As a global pioneer in endovenous laser ablation biolitec places a primary emphasis on the standardization of treatment and training of physicians treating with the ELVeS® PainLess system.

ELVeS® PainLess provides a unique opportunity for expanding your practice, improving patient outcomes and maximizing your return-on-investment.

ELVeS® PainLess is a unique solution so you can focus on treating your patients.

A complete solution including:

- **ELVeS® PainLess diode laser platform**
- **ELVeS® PainLess applicator devices**
- **ELVeS® PainLess patient education material**
- **Field sales support and customer service**
- **On-Site OR and in-office training**
- **Global network of key opinion leaders and training centers**

ELVeS® PainLess a unique technology:

- **State-of-the-art functionality**
- **Superior ease of use**
- **Dedicated ELVeS® PainLess software features**
- **Visual control of treatment energy via screen**
- **Unmatched reliability**
- **Touch screen color display**
- **Compact and portable for clinic and office use**
- **No special electrical requirements necessary**



ELVeS® PainLess diode laser Technical Specification

Wavelength:	1470nm	Aiming beam:	635nm, 4mW, adjustable intensity
Optical output:	15Watts	Dimensions:	260 x 220 x 380 mm / 10.2 x 8.7 x 15 inch (H x W x D)
Operating Mode:	CW, pulsed	Weight:	7.5 kg / 15.5 lb
Pulse Duration:	0.01-99.9 seconds	Input Power:	100-240 VAC; 50-60 Hz



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