

PRESS INFO

Study on ELVeS® Radial® varicose vein laser therapy shows excellent long-term results in 98% of patients after 10 years

Study by the Italian physicians Patrizia Pavei (University Hospital Padua), Giorgio Spreafico, Enrico Bernardi, Enzo Giraldi and Maurizio Ferrini shows very good long-term results for ambulatory endovenous laser therapy – 98% of patients showed significant improvements or were completely symptom-free – Modern varicose vein laser therapy is increasingly becoming a preferred form of therapy – biolitec® was the first to introduce radial fiber and 1470 nm diode laser

Jena, 22nd March 2021 – In mid-2020, long-term results of patients who underwent outpatient laser treatment for varicose veins at the great saphenous vein (GSV) or small saphenous vein (SSV) in 2008 - 2009 were published for the first time.¹ The Italian research team led by physician Patrizia Pavei used a cross-sectional survey to examine patients who were all treated with the same parameters: a 1470 nm diode laser and the radial fiber newly developed by biolitec® in 2008.

Of the patients treated in 2008 and 2009, a total of 203 were re-examined and interviewed in 2018. Of these, 79% had been treated at GSV and 21% at SSV. 10 years after laser therapy approximately 98% of all those treated were still asymptomatic or showed significant improvement. Subsequent treatments occurred in just 21% of the SSV group and 5% of the GSV group. Recanalization was noted in only one otherwise symptom-free patient.

The study by Patrizia Pavei and her research team from Padua (Italy) showed overall excellent long-term results for the minimally invasive ELVeS® Radial® Laser Therapy with the 1470 nm diode laser from biolitec®. This laser gave rise to the LEONARDO® laser family, which has been continuously developed ever since. Meanwhile, the LEONARDO® DUAL is available in 3 different versions with 45, 100 and 200 watts, as well as the LEONARDO® Mini with 10 watts.

Minimally invasive laser therapy has become one of the standard procedures in the treatment of varicose veins. As the market leader, biolitec® is constantly optimizing its fiber optic technologies and has therefore further developed the ELVeS® Radial® fiber: Latest developments include the ELVeS® Radial® 2ring, which has an even better energy distribution due to its two rings and is thus even more gentle for patients, the ELVeS® Radial® 2ring Pro, which stretches particularly tortuous veins thanks to its additional channel for saline solution, and thus makes them more accessible, and the ELVeS® Radial® 2ring slim for the treatment of superficial venous reflux in perforating veins and smaller truncal veins.

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Sources:

1. P. Pavei, G. Spreafico, E. Bernardi, E. Giraldi, M. Ferrini, Favorable long-term results of endovenous laser ablation of great and small saphenous vein incompetence with a 1470-nm laser and radial fiber, *Journal of Vascular Surgery: Venous and Lymphatic Disorders* (2020), doi: <https://doi.org/10.1016/j.jvsv.2020.06.015>.

About the company:

biolitec® is one of the world's leading medical technology companies in the field of minimally invasive laser applications and is offering in the field of photodynamic therapy (PDT) the laser-assisted treatment of cancer with the drug Foscan®, registered in the EU. Since 1999, biolitec® is focused on the development of minimally invasive, gentle laser procedures. The unique **LEONARDO® diode laser** from biolitec® is the first universally applicable medical laser with a combination of two wavelengths, 980 nm and 1470 nm, which can be used in all disciplines. ELVeS® Radial® (ELVeS® = Endo Laser Vein System) is the world's most common laser system for treating venous insufficiency. In proctology, biolitec® offers a maximum sphincter-sparing therapy for anal fistulas as well as treatment options for hemorrhoids and pilonidal cysts. In urology, the range of therapies has expanded from benign prostate hyperplasia (BPH) to bladder and prostate tumors. The LEONARDO® Mini laser, which weighs only 900 g, has been specially developed for mobile applications. Gentle laser applications in the fields of gynecology, ENT, thoracic surgery and pneumology, esthetics, and orthopedics are also part of biolitec®'s business field. Further information is available at www.biolitec.com.

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