

## **FUSION®-Technology and LEONARDO®-Laser from biolitec®: The optimal safety concept for varicose vein therapy**

**Safe and low-risk working thanks to FUSION® technology – Fiber tip is safely fused to withstand loads such as tensile forces – Loss of fiber tip during treatment virtually eliminated – ELVeS® Radial® product line has additional safety features – Versatile LEONARDO® laser supports optimal treatment – Safe and efficient technology for experienced doctors and newcomers**

Jena, 11.04.2019 – Due to its high quality standards biolitec® has understood right from the start what safety is all about: The FUSION® technology of biolitec® was developed to enable physicians to work as safely and low-risk as possible and to reduce possible material-related risks for patients during surgery to a minimum.

With the unique **FUSION® technology**, the quartz fiber tip is not simply glued to the laser fiber, but safely fused to withstand the highest tensile forces. The loss of the fiber tip in the vein during the treatment and the associated surgical intervention are thus almost impossible.

In combination with the lasers of the LEONARDO® DUAL series, the FUSION® technology of biolitec® offers an optimal safety concept in minimally invasive laser therapy. The ELVeS® Radial® laser minimizes postoperative pain and injury compared to hemoglobin-directed 810 nm to 980 nm lasers due to the 40 times higher absorption rate in water. In varicose vein therapy, the 1470 nm wavelength in particular benefits a positive course of treatment.

In addition, the fibers of the ELVeS® Radial® series have an exclusive and patented distal design that enables homogeneous laser radiation. This minimizes the risk of venous perforation and ensures high echogenic visibility. The laser energy can be individually dosed and applied to veins of different sizes without having to treat individual sections a second time. The irreversible photothermal process that results leads to a safe closure of the treated vein.

Our state-of-the-art technology enables minimally invasive endoluminal treatment of insufficient veins – safe and simple! Not only for experienced doctors, but also for newcomers who want efficient and easy-to-use technology.

The possibility of using two wavelengths in a compact, mobile and space-saving laser system is a great advantage, as is the low maintenance requirement. Each wavelength of LEONARDO® lasers can be individually selected or applied simultaneously to achieve the desired tissue effects such as incision, excision, vaporization, hemostasis and soft tissue coagulation.

# PRESS INFO



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The LEONARDO® DUAL lasers of biolitec® are – except in phlebology – suitable for minimally invasive applications in proctology, urology, gynecology, orthopedics, thoracic surgery, pneumology, ENT and esthetic surgery and of course all fibers of biolitec® are equipped with the FUSION® technology. The laser system consists of lasers with a power of 45, 100 or 200 watts.

Further information about biolitec® products can be found at [www.biolitec.com](http://www.biolitec.com).

#### **To the company:**

biolitec® is one of the world's leading medical technology companies in the field of laser applications and the only provider with all relevant core competencies – photosensitizers, lasers and fiber optics – in the field of photodynamic therapy (PDT). In addition to the laser-assisted treatment of cancer with the drug Foscan®, biolitec® researches and markets minimally invasive, gentle laser procedures. ELVeS® Radial® (Endo Laser Vein System) is the world's most widely used laser system for treating venous insufficiency. The new 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. The innovative XCAVATOR® contact fiber in conjunction with the LEONARDO® DUAL 200 Watt laser in urology enables gentle treatment of benign prostate hyperplasia (BPH) for example. The LEONARDO® Mini laser, which weighs only 900 g, has been specially developed for mobile applications. Gentle laser applications in the fields of proctology, ENT, gynecology, thoracic surgery and pneumology are also part of biolitec®'s business field. Further information is available at [www.biolitec.com](http://www.biolitec.com).

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