

# RING ENDOVENOUS LASER ABLATION

Spectrum is the ideal laser for mini-invasive endosaphenous ablation. Due to the physical effect of the double wavelength that can be selected among 808nm, 940nm, 980nm, 1064nm, 1470nm, and 1940nm, Spectrum simultaneously offers the highest absorption rate of water and haemoglobin, enabling a better collapsing of the venous wall of the great saphenous vein, of the small saphenous vein, and of the main trunk veins. The combined use with radial fibers which emit at 360 degrees enables a better energy delivery on the venous wall, a safer ablation and a reduction of the vessel's perforation rate.



## PROCEDURE

Under local anaesthesia, the HF (High Focus) RING fiber is inserted in the saphenous vein through the percutaneous dedicated kit and guided up under the saphenofemoral junction. After having performed tumescent anaesthesia, the laser discharge is activated and the HF RING fiber is slowly retracted from the proximal area to the distal area of the vein applying laser energy. When this localized energy flow crosses the tissue, the induced heat modifies the vein, more precisely there is a contraction of the diameter of the vein and a subsequent occlusion of the vein itself. The energy applied per centimeter - LEED (Linear Endovenous Energy Density) is continuously monitored and indicated by an acoustic signal (acoustic feedback) which helps the operator to determine the best retraction speed so as to avoid possible damages or burns.

The dispersion of the radial laser beam allows an optimum obliteration of the vein without thermal damages on the perivenous area. Too high energies, and hence perivenous damages, can be avoided. More comfort for the patient, due to reduced post-operative pain. The possibility to perform the ultrasound guided treatment in the clinician's office.

Reduced treatment period.

Rapid recovery for the patient.

Can be more easily performed by the clinician due to the roundness of the tip of the HF Ring fiber that enables an easier access. Moreover, the precise marking on the fiber allows to better control the transfer of laser energy and the pulling back.

## ADVANTAGES

- Simplicity and safety in execution
- Local-tumescent anaesthesia
- Mini-invasive procedure
- Immediate mobility
- Absence of bleedings and scars
- Work or social-life continuity
- Higher comfort for the patient
- Reduced complications
- Good and stable results in 99% of the cases

## CLINICAL RESULTS

### SAPHENOUS VEIN Before / After

by courtesy of  
C. Baraldi MD

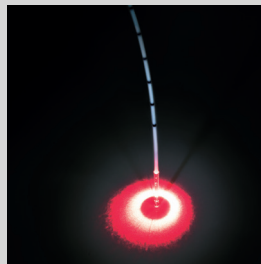


### SAPHENOUS VEIN Before / After

by courtesy of  
C. Baraldi MD



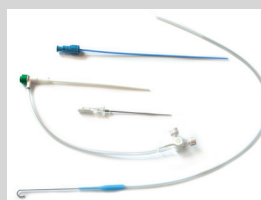
## ACCESSORIES



### HF (HIGH FOCUS) RING FIBER

Optical fiber specifically designed to fire radially 360° from the tip with a spot of 200 micron only, enabling a better fluence and a safer ablation.

Characteristics: rounded cone tip for an easy access, marking on the entire length of the fiber at 360° to regulate the exact dosage of energy when retracting the fiber, available in two diameters: 400 micron or 600 micron.



### STERILE SINGLE-USE KIT

Introductory kit for Ring fibers that includes the "J" Guidewire, needle, dilator and catheter with haemostatic valve.