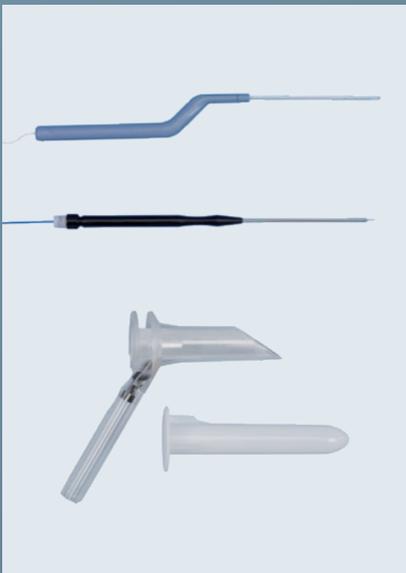


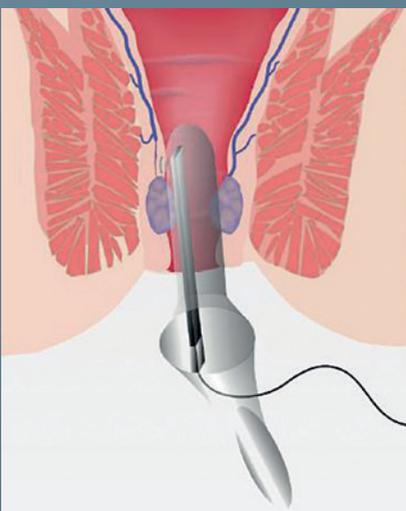
# Hemorrhoid Laser Procedure (HeLP®)

## Ambulatory for hemorrhoids



The perfect solution for patients fearing invasive painful surgical or semisurgical techniques in this delicate matter. This Hemorrhoid Laser Procedure, called HeLP®, is biolitec's innovation for painless therapy of hemorrhoids. The HeLP® Doppler probe selectively identifies the branches of the superior hemorrhoidal arteries above the dentate line whereas the special HeLP® handpiece photocoagulates and closes the superior hemorrhoidal arteries. It is an ambulatory approach and serves you with a fast outpatient procedure.

It is surely the simplest among other techniques and does not comprise tissue removal, but only the closing of the artery, with no internal sutures or stitches. Using the HeLP® Kit with disposable guidance Doppler probes and selective laser energy delivered by fiber optic handpiece, the hemorrhoidal arteries above the hemorrhoidal cushions are identified and treated accordingly. The used 20 Mhz Doppler is ideally adapted in entry depth to the one of the 980 nm laser which is 4 - 5 mm.



## The Benefits of HeLP®

- Specially developed for simple and safe out-patient treatment of hemorrhoids
- Enables the use of a minimally invasive surgical procedure that is effective and precise
- Minimal side-effects and discomfort post treatment
- Faster post-operative recovery than surgical methods
- Anaesthesia or analgesia generally not required
- Excellent short- and long-term results
- Clinically proven, with high levels of patient acceptance and satisfaction

# Doppler-guided hemorrhoidal dearterialization with laser (HeLP®): a prospective analysis of data from a multicenter trial

**Purpose:** The hemorrhoidal dearterialization with laser (HeLP) is a minimally invasive technique to treat symptomatic hemorrhoids. The aim of this multicenter study was to prospectively assess clinical results and patients' satisfaction in patients treated with HeLP.

**Methods:** Indications for HeLP included patients with hemorrhoids resistant to medical therapy, with low grade of prolapse. Clinical efficacy was evaluated by comparing preoperative and postoperative clinical examination, frequency of symptoms and quality of life scoring. Intra- and postoperative morbidity was recorded. Potential predictive factors for failure were assessed.

## Results:

- 284 patients (183 M, 101 F) of mean age 47.5 years were included in the study. The analysis of clinical results was mostly focused on 144 patients who completed the 12-month follow-up.
- There was a statistically significant improvement of frequency of bleeding, acute hemorrhoid-related

- symptoms requiring medical treatment and quality of life.
- Overall resolution of symptoms was observed in 130 of 144 patients (90.3 %).
- No significant change in continence and constipation was observed.
- Univariate analysis failed to show factors significantly associated with failure.

**Conclusions:** The HeLP procedure seems to be safe and effective in patients with symptomatic hemorrhoids. It is simple, repeatable, minimally invasive, and painless. It can be performed in an ambulatory setting without anesthesia, and it achieves high patient satisfaction. It can be considered a "first line treatment" in all patients in whom medical therapy has failed.

Giamundo et al.  
Techniques in Coloproctology,  
DOI: 10.1007/s10151-018-1839-5

## Fibers

REF	Product	PU [Packaging unit]	length [m]	ø fiber [mm]
503400505	HeLP® Bare Fiber 1000 µm, Flat Tip, with handpiece, IC	5	2.6	1.5

## Kits

503400520	HeLP Procedure Kit	5	2.6	1.5
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## Accessories

REF	Product	PU [Packaging unit]
AB2530	HeLP Doppler Transceiver	1

(Depending on the particular patient the HeLP® technique can be combined with the recto anal repair. Ask us to find out more.)



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All fibers are free of latex and DEHP. Our fibers are single use products (unless otherwise indicated) delivered sterile for immediate use.  
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