

HeLP™

Laser treatment of hemorrhoids

HeLP™



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LITEC**
biomedical technology

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HeLP™ HeLP™

Hemorrhoid Laser Procedure

The Hemorrhoid Laser Procedure, called HeLP™, is biolitec's latest innovation for treatment of hemorrhoids. HeLP™ is a painless procedure and best in terms of minimally invasiveness.

It is surely the simplest among other techniques and does not comprise tissue removal, but only the closing of the artery, with no internal suture or stitches.

Using 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 Benefits of HeLP

- Specially developed for simple and safe treatment of hemorrhoids
- Enables the use of a minimally invasive surgical procedure that is effective and precise
- Minimal side-effects and discomfort post treatment
- No appearance or falling off of necrotic tissue like to rubber band
- No scars on the mucosa surface
- No open or smearing wounds -> less complications like infections or bleeding
- Faster post-operative recovery than surgical methods
- Excellent short- and long-term results
- Clinically proven, with high levels of patient acceptance and satisfaction

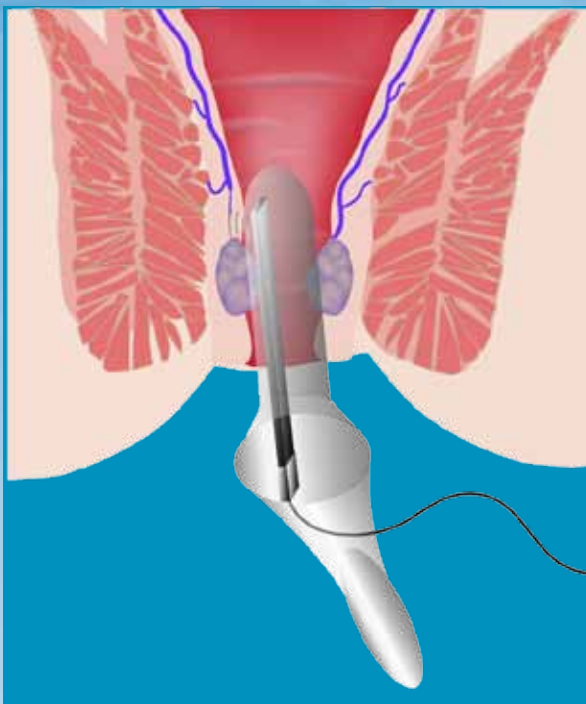


Ceralas® Laser

Hemorrhoid treat

1 Doppler assisted laser ligation of the arteries

2nd and 3rd degree



The HeLP™ proctoscope is designed for easy insertion into the anal canal. It consists of a working channel containing the disposable HeLP™ Doppler probe, which identifies the branches of the superior hemorrhoidal arteries above the dentate line.

The laser energy is then applied to each of the sub mucosal branches using the handpiece of the special HeLP™ fiber. Laser photocoagulation of the branches closes the superior hemorrhoidal arteries and

The perfect relief/solution for patients fearing invasive painful surgical or semi-surgical techniques in this delicate matter. Especially if the patients are fed up with rubber band or sclerosation this easy and accurate application is the right alternative. It is an ambulatory approach and serves you with fast procedures needing just one intervention.



decreases the pressure in the hemorrhoidal piles. In this way the arterio-venous flow is modified leading to withdrawal of the piles on subsequent days and weeks.

Combination

You might as well combine both approaches to optimize patients benefit. By previously closing the feeding arteries bleedings will be

HeLP™ tments

2 Laser hemorrhoido- plasty (LHP)

3rd and 4th degree

If immediate removal/reduction of the hemorrhoidal cushion is indicated (no matter if it is segmental or circular) this therapy will provide you with an improved patient outcome especially regarding pain and down times compared to conventional surgical proceeding. Under proper local or general anesthesia the controlled laser energy deposition obliterates the nodes from the inside and preserves the mucosa and sphincter structures to an extremely high degree.

The radial and homogenous laser emission required for this procedure results in:

- Tissue reduction in the hemorrhoidal node
- Maximum preservation of muscle, anal canal lining and mucosa
- Restoration of the natural anatomical structure

suppressed to a high extend improving all subsequent measures to further reduce the symptoms of hemorrhoids.



Case 1 Pre-OP



Case 2 Pre-OP



Case 1 Post-OP



Case 2 Post-OP



Use of laser hemorrhoidoplasty probe (LHP) enables the endoluminal laser coagulation of both segmental and circular hemorrhoidal nodes.

The controlled emission of laser energy, which is applied to the submucosa, causes the hemorrhoidal mass to shrink. In addition, fibrotic reconstruction generates new connective tissue, which ensures that the mucosa adheres to the underlying tissue. This also prevents the occurrence or recurrence of a prolapse.

No foreign materials (clamps) need to be inserted and, unlike other procedures, HeLP is not associated with any risk of stenosis.

Healing is excellent because, unlike conventional surgeries, there are no incisions or stitches. As a result, the patient experiences less post-operative pain and can return to normal activities within a shorter space of time.

- No incisions
- No stitches
- No open wounds

HeLP™

A clinically proven system that scores highly with doctors and patients

The HeLP™ platform comprises a Ceralas laser 980 nm, including a high-frequency Doppler (20 MHz) for assessing hemorrhoidal artery position, and specially designed HeLP™ Procedure kit, which includes all equipment needed to carry out this simple and effective treatment.

Clinical proven:

Patients and methods:

in the past three years, 200 patients were treated with Doppler-guided laser photocoagulation of hemorrhoidal arteries. In all cases, treatment was performed on an outpatient basis and anaesthesia or analgesia was not necessary

Results: Mild intra- and postoperative complications were seen. 91% of the patients show an improvement of hemorrhoidal symptoms 1 to 12 months after treatment.

Conclusion: Doppler-guided laser photocoagulation fo hemorrhoidal arteries is a good an safe method for the ambulatory treatment of hemorrhoids.

Raffaele Salfi, coloproctology 2009;31:99-103

Studies have shown with 106 Patients that in the one year follow up 94 patients (88.7%) were completely free of pain. The laser obliteration is considered as an extension of the range of treatment options for second- and third-degree haemorrhoidal illness.

The advantages of this method include painless

Other possible proctological applications of this laser procedure:

- Sinus pilonidalis
- Skin tags
- Removal of polyps
- Condyloma
- Fissures



*execution with a high patient acceptance and satisfaction, virtually no complications when performed properly, fewer applications without medicamentous therapy or foreign material use, and high success rate especially in case of bleeding hemorrhoids.*1*

**1 Karahaliloglu coloproctology 2007;29:327-36*

Hemorrhoid Laser Procedure System

Hardware & accessories



HeLP™ Dopplertransceiver (Treatment 1)



HeLP™ Procedure Kit (Treatment 1)



Ceralas LHP-Fiber incl. Handpiece (Treatment 2)

| <i>Article description</i> | <i>Item number</i> |
|--|--------------------|
| Doppler assisted laser ligation of the arteries | |
| HeLP™ Dopplertransceiver | AB2530 |
| HeLP™ Procedure Kit HeLP™ Proctoscope with Working Channel HeLP™ Doppler Probe HeLP™ Laser Fiber with Handpiece | 502400510 |
| Laser hemorrhoidoplasty | |
| Ceralas LHP-Fiber incl. Handpiece | 501100210 |
| Universal Handpiece | |
| Universal biolitec Dual Luer Lock Handpiece | AB2517 |



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