

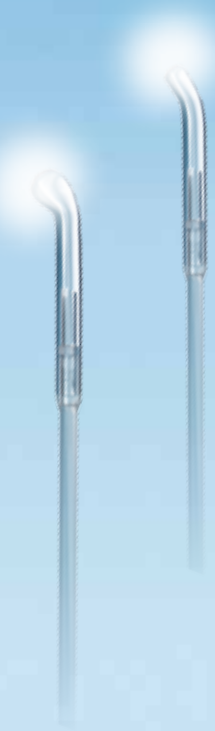


EVOLVE[®]

Simply Definitive Care for BPH

Contact Laser Vaporization for BPH

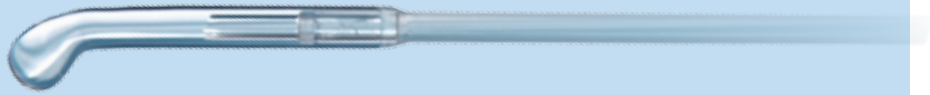
TWISTER™ EVOLVE® DUAL



Clinically Proven Care for BPH

The Geraslas® HPD laser combined with the TWISTER™ fiber from biolitec® guarantees unmatched performance in speed, safety and effectiveness.

EVOLVE® Laser treatment for BPH ensures minimal intra and post operative bleeding and an optimal preservation of surrounding tissue for a quick recovery.



UROLOGY TWISTER™

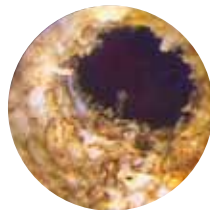
For effective Laser Vaporization of the Prostate

The new TWISTER™ fiber offers unmatched ablation rates and reliability.

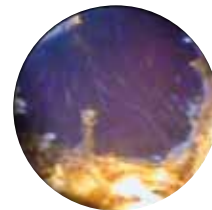
Due to its special ability to work in contact mode, performance loss and fiber degradation are things of the past. With its patented design the TWISTER™ gives you tactile feedback of the area you want to ablate or vaporize.



before



after 6 min



after 14 min

Patient 72 yrs | Prostate 45 gr | Treatment 16 min

The ultimate Fiber for BPH



UROLOGY

TWISTER™

In combination with the Ceralas® Laser series the TWISTER™ fiber achieves ablation rates of 2-3 grams per minute and can reduce treatment times up to 50% as compared to side firing fibers.

Clinical tests have proven that a 40-50gr prostate can be treated in less than 15 minutes while keeping the well known hemostatic characteristics of the EVOLVE® procedures.

Main Features

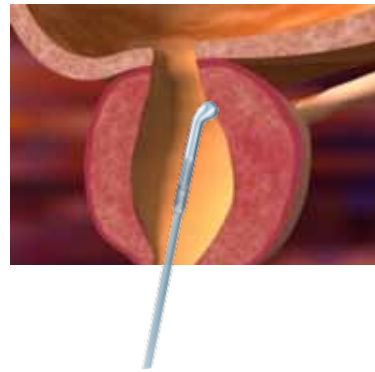
- Working in contact mode
- Long lasting with minimal degradation
- Direct and high energy delivery in contact mode
- Provides an exceptionally smooth surgical plane while vaporizing
- Compatible to the Ceralas® Laser Series

BPH FIBER

True definitive Care for BPH

TWISTER™

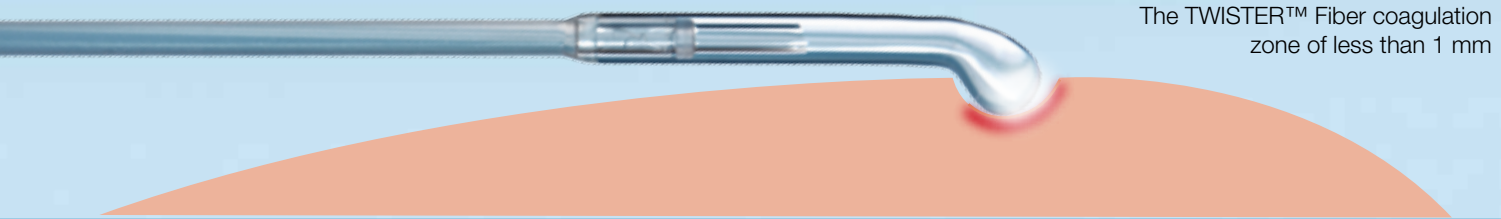
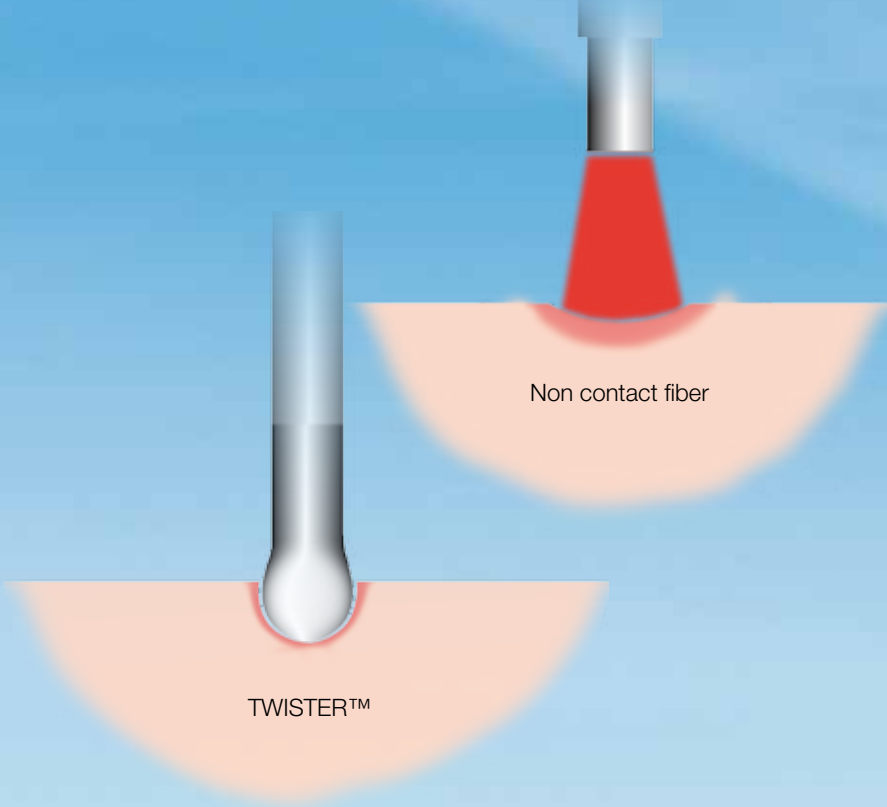
- Higher ablation rates than side and end fire fibers
- Procedure time reduced up to 50%
- No need to clean the fiber tip or take other precautions in order to maintain integrity and minimize degradation
- TWISTER™ allows greater access to the anterior portion of the prostate
- Enhanced visibility
- Increased control of the fiber tip
- For the first time the urologist will be able to utilize the traditional TUR type movements effectively with a laser



Contact Laser
Vaporization for BPH

LASER

TWISTER™ Effect



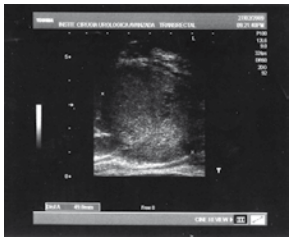
Working in Contact Mode
decreases Coagulation Zone

EVOLVE®

Ceralas® HPD 180

Ceralas® HPD DUAL

Higher Ablation Rates than current Lasers



vorher



nachher

The procedure incorporates both our Ceralas® Laser Systems and our patented TWISTER™ fibers. The combined result is a minimally invasive procedure with enhanced patient benefits such as quick recovery, opportunity for local anesthesia and minimal post-treatment side effects or discomfort.

A better Patient Experience through a Number of advanced Features and Benefits

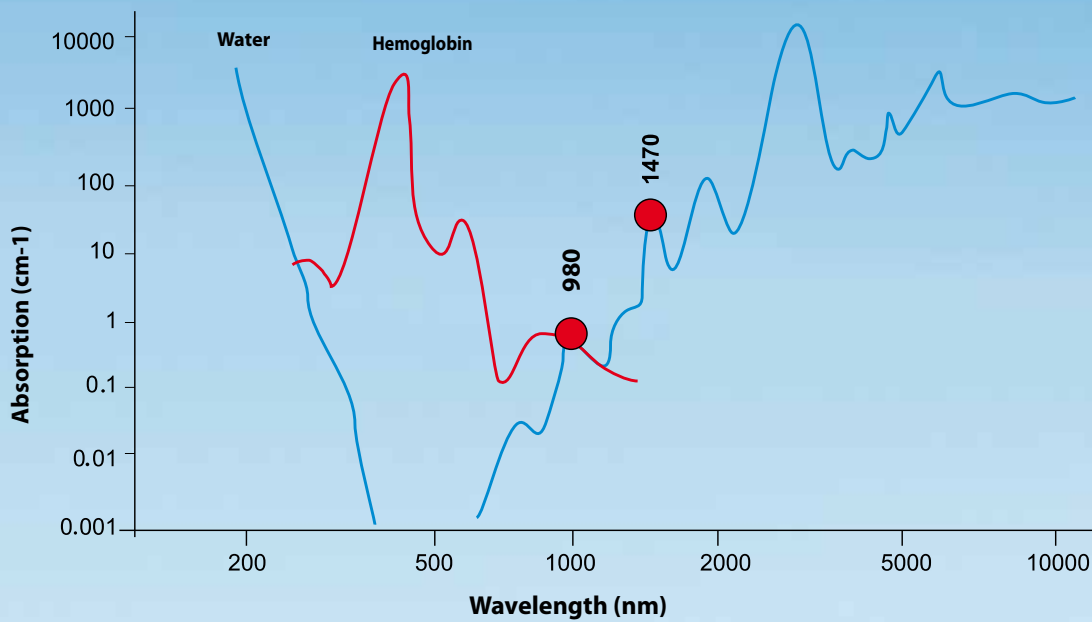
- Minimal post-treatment discomfort or side effects
- Option of local anesthesia
- Quick recovery
- Limited need for post-op catheterization
- No hospitalization post-op required

Low Risk of Complications

- Low stress on cardiovascular system
- Protective procedure to avoid retrograde ejaculation
- In most cases, there is no impact on sexual performance and continence
- Ideal for patients taking anticoagulant medication
- No blood transfusions necessary
- Ideal control of unintended bleeding

True definitive Care for BPH

EVOLVE[®] DUAL



Dual Wavelength

Ceralas[®] HPD DUAL sets a new standard of efficacy and safety.

With two parallel working wavelengths of 1470nm and 980nm the Ceralas[®] HPD DUAL combines the characteristics of high ablation rates with excellent hemostasis due to its combined effect of absorption in water and hemoglobin.

Ceralas® HPD 180

The high power Ceralas® 180 Laser achieves ablation rates of 3g/minute while keeping a low and effective coagulation zone to minimize the risk of side effects.

Due to its high absorption in water the Ceralas® HPD avoids accidentally firing into the bladder and other unintentional areas.

The EVOLVE® Safety Advantage



Excellent Visualization

The wavelength of the Ceralas® diode laser is invisible to the human eye and does not impair your vision during a procedure. The resulting lack of distraction makes it easier to operate with precision in a stress-free environment.

Extremely Quiet

Our Laser System allows you to work in a quiet environment.

Auto-Memory Function

Operating the Ceralas® HPD Laser is further simplified by automatically storing the last parameter settings used, ensuring both operator and patient safety.

Automatic Fiber Type Recognition

biolitec® bi-protect System detects and protects the fiber type by maintaining secured output parameters and avoids misuse and malfunction.

Interdisciplinary Use

Due to the lasers small footprint and its light weight, the procedure can easily be incorporated into a mixed-device/mixed-procedure environment within surgical centers.

Minimal Maintenance Costs

Thanks to the long life and trouble-free characteristics of biolitec® laser diode technology, high maintenance costs are things of the past.

For unmatched Performance in
Speed, Safety and Effectiveness

EVOLVE®

High Power Diode Laser Vaporization of the Prostate: Preliminary Results for Benign Prostatic Hyperplasia

Journal of Urology Volume 182, Issue 3, Pages 1078-1082 (September 2009)

Ali Erol, Kamil Cam , Ali Tekin, Omur Memik, Soner Coban, Yavuz Ozer

Materials and Methods:

A total of 47 consecutive patients were included in the study. Inclusion criteria were maximal flow rate 12 ml per second or less with voided volume 150 ml or greater, International Prostate Symptom Score 12 or greater and quality of life score 3 or greater....

Results:

„Month 3 assessment revealed that the mean \pm SD International Prostate Symptom Score decreased significantly from 21.93 ± 4.88 to 10.31 ± 3.79 ($p = 0.0001$). The mean maximal flow rate increased significantly from 8.87 ± 2.18 to 17.51 ± 4.09 ml per second ($p = 0.0001$). Quality of life score changed considerably compared to baseline....

Conclusion:

The high power diode laser provided significant improvements in International Prostate Symptom Score and the maximal flow rate with low morbidity. Thus, these results of prostate vaporization with the high power diode laser, representing what is to our knowledge the first clinical study in the literature, are encouraging.

Preliminary results on selective light vaporization with the side-firing 980nm diode laser in benign prostatic hyperplasia: "an ejaculation sparing technique"

R. Leonardi Department of Urology, Clinica Basile, Catania, Italy

Prostate Cancer and Prostatic Diseases (2009), 1–4

Results:

A total of 52 consecutive patients aged 52–65 years were treated with the diode laser. Prostate volumes ranged from 30 to 60 ml; mean (s.d.) 45.14 (9.15) ml; eight patients had prostates with a median lobe. Operating times ranged from 30 to 60 min, with a mean (s.d.) of 40.75 (8.8) min. Blood loss during the procedure was minimal. There was no significant change in hemocrit.

Conclusion:

This early experience in a pilot study with the 980nm diode laser seems promising in the short-term with good outcome and a low rate of complications. There is also good possibility of preservation of anterograde ejaculation with the technique described. Long-term outcome is being monitored.

EVOLVE® is clinically proven



True definitive Care for BPH

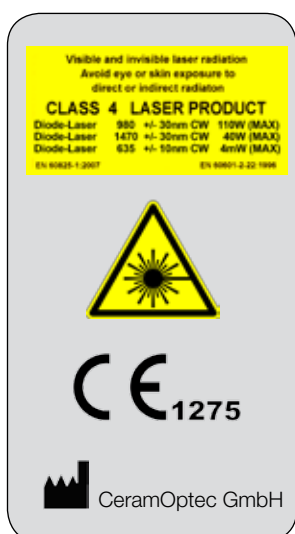
Fiber

Article No.	Ref.	Article Description	Manufacturer
FiTwisterC1	501200200	Twister™ Fiber	CeramOptec GmbH
FiTwisterLargeC1	501200220	Twister™ Large	CeramOptec GmbH
FiTwisterSlimC1	501200210	Twister™ Slim Fiber	CeramOptec GmbH



Laser

Technical Specifications	Ceralas® HPD
Wavelength	980nm and/ or 1470nm
Power	5 – 300 Watt
Fiber diameter	400 – 600µm
Aiming Beam	635 nm, 4 mW, intensity can be configured
Treatment mode	CW, Pulse Mode
Pulsduration / -pause	0,01 – 99,9 sec
Power supply	110 -240 VAC; 50-60 HZ
Dimensions HxWxD (cm)	30 x 60 x 30
Weight	approx. 30 kg



Ceralas® HPD Diode Laser

biolitec® worldwide

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