



biolitec<sup>®</sup> in Urology

# WHY?

## SAFE

- Laser wavelength highly absorbed by H<sub>2</sub>O
- Allowing contact use for tactile feedback and control
- Less risk of complications

## EFFECTIVE

- High success rate even in outpatient setting
- Excellent haemostasis and tissue vaporization speed
- Lower cost compared to surgery

## EASY & VERSATILE

- Minimally invasive procedure easy and quick to perform
- Versatility using your standard instrumentation

## PATIENT FRIENDLY

- Quick return to normal life
- Less pain for the patient

# APPLICATIONS

## PROSTATE

## KIDNEY

## EXTERNAL GENITALS

## URETHRA

## BLADDER

## URETER

## PAEDIATRICS

BPH (Benigne Prostate Hyperplasia)

Partial Nephrectomy

Condyloma acuminata

and other virus associated skin lesions

Penile Carcinoma

Strictures

Tumours

Bilharziosis

Interstitial Cystitis

Carcinomas

Congenital dysplasia

of Urethra and Ureter

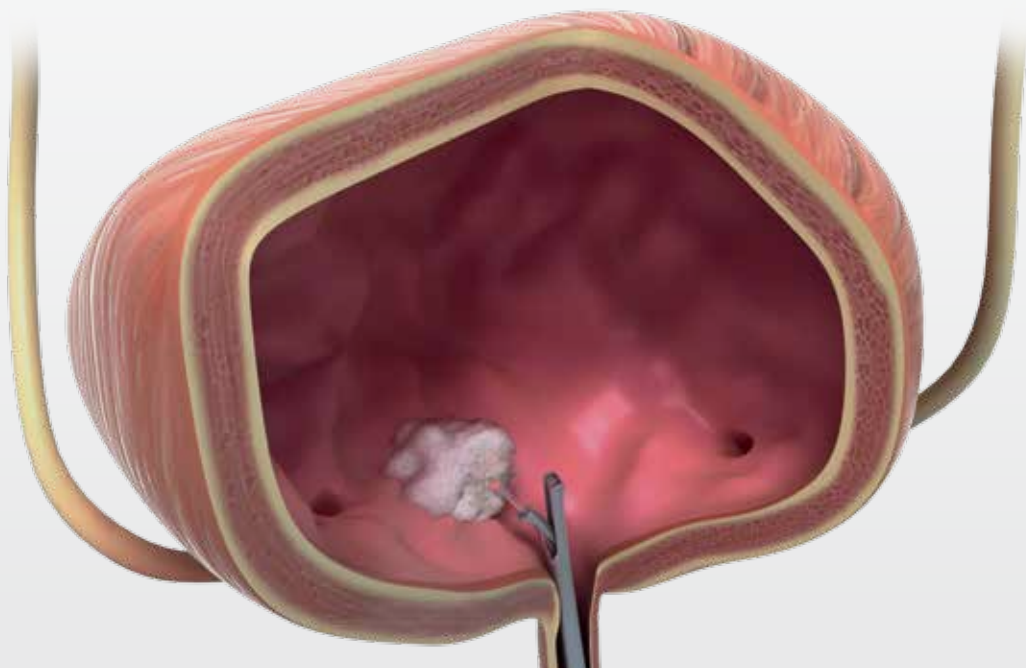


# APPLICATION

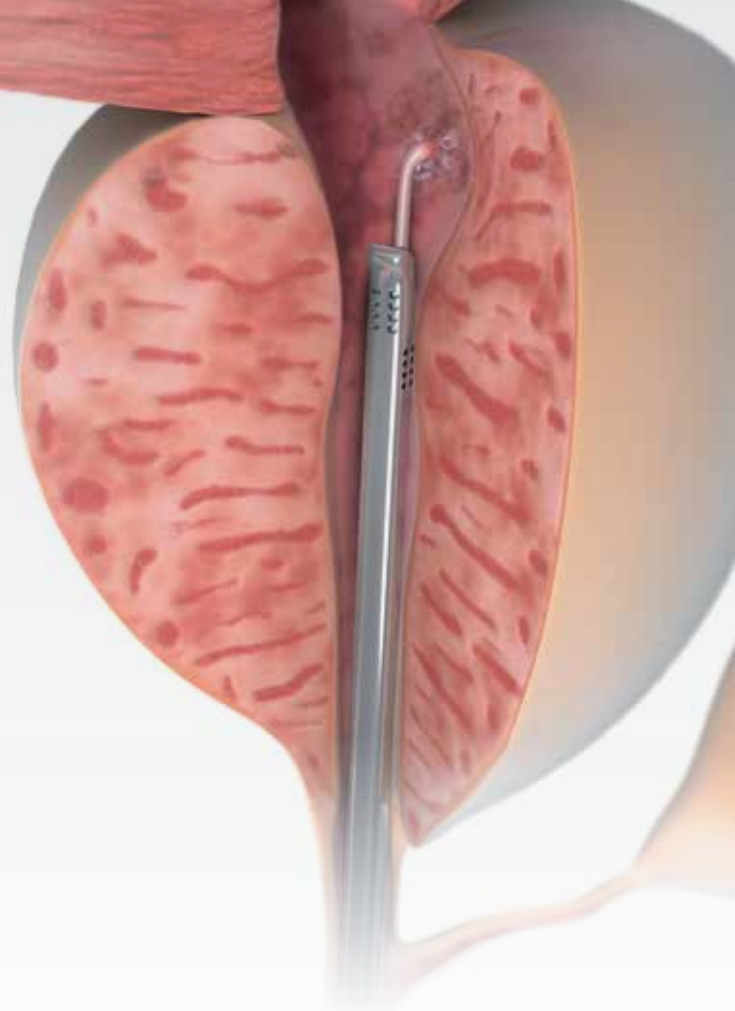
## BLADDER TUMOURS

There is evidence that laser treatment of superficial bladder cancer is effective in eradicating visible tumors. Bleeding does not occur during laser application which is a clear advantage over electro-surgical resection. Additionally, the treatment can sometimes be performed without anaesthesia in an outpatient manner using flexible scopes and fiber optics. Bladder perforation is unlikely and postoperative use catheter drainage of the bladder is unnecessary.

Laser treatment for Bladder Tumours, a simple and safe method with a minimal loss of blood and reduced risks for the patient.



# TIONS



## BPH BENIGNE PROSTATE HYPERPLASIA

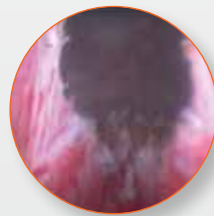
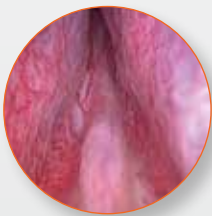
Especially the wavelength 980nm with high absorption in water ensures a safe treatment of the benign prostate hyperplasia.

Our contact fiber TWISTER™ allows Laser-TUR in a very efficient way. The patented design of the glass tip gives tactile feedback of the area that is to ablate or vaporize and facilitates the modeling of the tissue. The glass tip guarantees constant performance and best results.

Even large prostates can be operated in a short time.

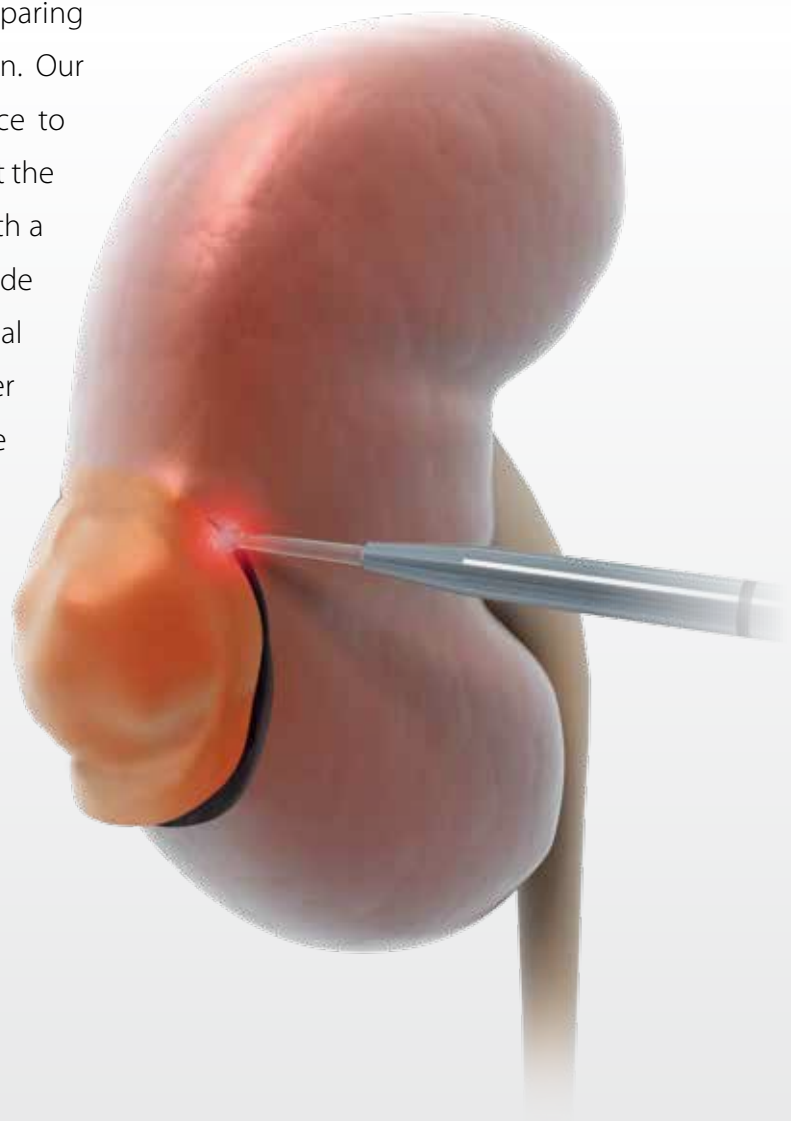
### Why is TWISTER™ Superior:

- Fast & efficient ablation rate of up to 3g/min.
- Safer due to laser and fiber technology
- Prevent complications & side effects
- Excellent haemostasis
- Work in contact for tactile feedback
- Shorter catheter need & faster recovery



## PARTIAL NEPHRECTOMY

Cutting and coagulation properties of our optical fibers contribute to a successful nephron sparing surgery securing better overall renal function. Our high-tech fibers would be the fiber of choice to ensure best results. Cutting and coagulating at the same time and provides minimal bleeding with a good view on the tissue. Use of our special diode lasers for (open, laparoscopic or robotic) partial nephrectomy offers benefit of no or shorter warm ischemia time with more effective tissue coagulation, hemostasis and reduced parenchymal damage.



# CERALAS® Diode lasers



## HPD DUAL

Unique combination of two simultaneous wavelengths

HPD DUAL combines the wavelengths 980nm and 1470nm with high absorption in H<sub>2</sub>O and haemoglobin for multiple applications not only in Urology.

### Technical Details

Wavelength	980nm and 1470nm
Power output	200 Watt
Fibers	> 600µm Bare Fiber or TWISTER™
Laser class	4
Pilot beam	635nm +/- 30nm; PWM 4mW (max.)
Treatment mode	Continuous Wave (CW), Pulse Mode
Pulse duration	Variable 0,01 – 99,9 Sec. or continuous
Power supply	220–240VAC, 50–60Hz, 1800VA
Cooling	Air cooled system
Dimensions HxWxD	approx. 30cm x 60cm x 42cm
Weight	approx. 45kg

### Ceralas® HPD DUAL

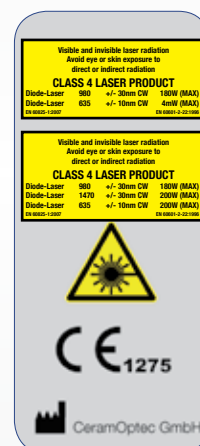
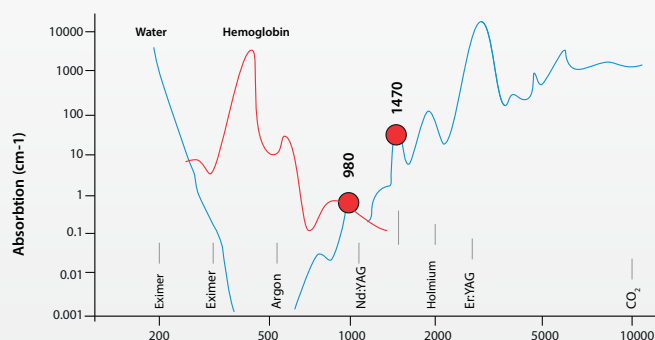
## HPD

Available in several powers. Well approved!

Wavelength of 980nm provides high absorption in H<sub>2</sub>O and is therefore well suited for applications in Urology. Due to absorption properties the emitted laser beam does not affect the bladder.

### Ceralas® HPD 180

Wavelength	980nm
Power output	180 Watt
Fibers	> 400µm Bare Fiber or TWISTER™
Laser class	4
Pilot beam	635nm +/- 30nm; PWM 4mW (max.)
Treatment mode	Continuous Wave (CW), Pulse Mode
Pulse duration	Variable 0,01 – 99,9 Sec. or continuous
Power supply	100-240VAC, 50–60Hz, 800VA
Cooling	Air cooled system
Dimensions HxWxD	approx. 30cm x 60cm x 42cm
Weight	approx. 30kg



## FIBERS

- TWISTER™
- Bare Fibers: flat, ball and conical tip

## INSTRUMENTS

- Cystoscopes
- Laparoscopic sheaths
- Handpieces
- Accessories

# biolitec® worldwide

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