

EVOLVE™

True definitive Care
for BPH



LIFE™ Laser Induced Flow Enhancement

**bio
LITEC**®
biomedical technology

Procedure

LIFE™

Laser Induced Flow Enhancement procedure for BPH treatment.

True definitive Care for BPH

LIFE™ Laser Induced Flow Enhancement is much more than a laser system. LIFE™ is a simple and effective process for bringing true definitive care to BPH.

The LIFE™ procedure incorporates both our EVOLVE™ Laser System and our patented side-fire fiber: FUSION™. The combined result is a minimally invasive procedure with enhanced patient benefits such as quick recovery, local anesthesia and minimal post-treatment side effects or discomfort.

LIFE™ provides 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*
- *Optional as an office visit co-pay versus hospital deductible*

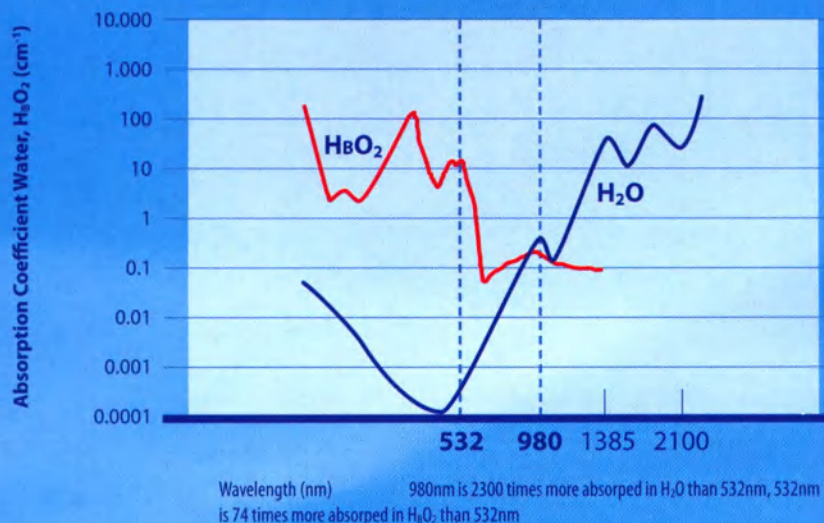
Low Risk of Complications:

- *Low stress on cardiovascular system*
- *Protective procedure to prevent 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*

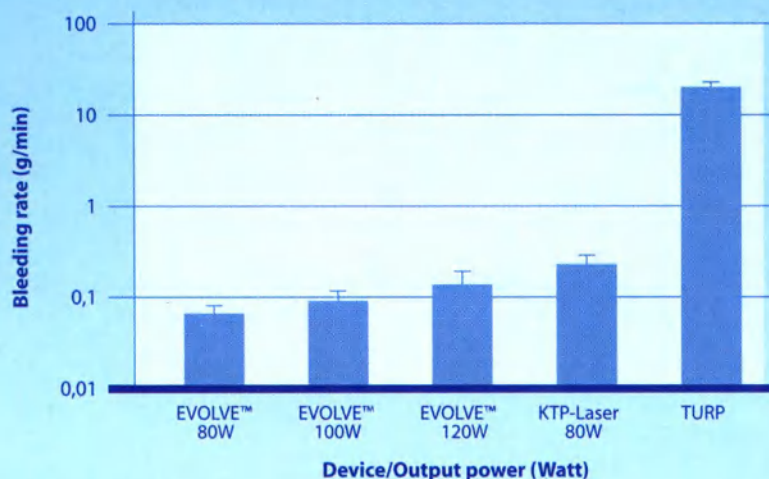
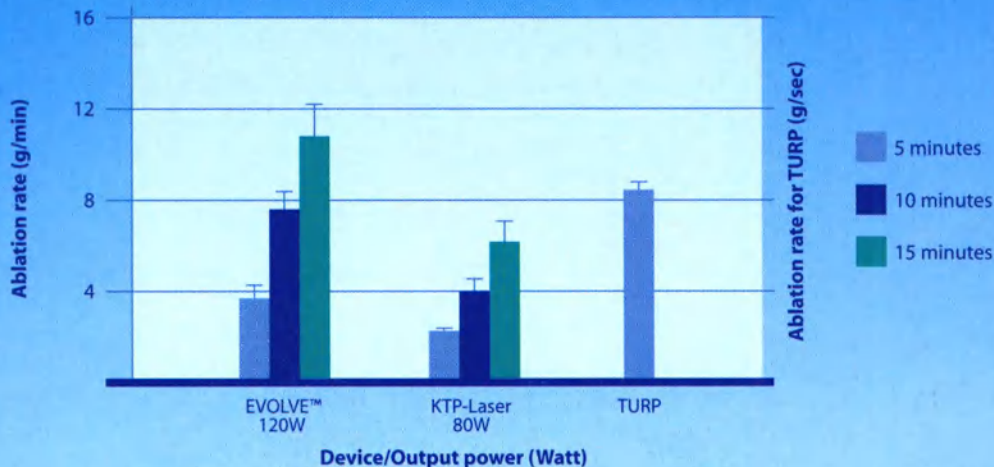
... The operation, performed with the Evolve 980nm laser, can be rightly considered a breakthrough in the treatment of BHP as it achieved an unobstruction comparable to TURP whilst preserving sexual performance and ensuring normal anterograde ejaculation ...

Source: R. Leonardi Manuscript Number: EURUROL-D-08-00245 SLV WITH DIODE LASER 980nm AND PRESERVATION OF ANTEROGRADE EJACULATION PERSONAL TECHNIQUE

Selective Laser Vaporisation (SLV)



Ex-vivo evaluation of EVOLVE™



EVOLVE™

A Complete Procedural System.

LIFE™ · EVOLVE™ Laser System · FUSION™ fiber

The LIFE™ procedure uses Selective Light Vaporization (SLV) to eliminate unwanted soft tissue using the EVOLVE™ Laser System and FUSION™ fiber. With its wavelength, pulse and radiation pattern combination, the EVOLVE™ Laser System produces unparalleled results that can eliminate both scarring and tissue damage. Compared to traditional surgery, SLV is a low-trauma, low-pain, and comfortable alternative.

Tissue Interaction

Because soft tissue contains a high percentage of water, a surgical laser must be well absorbed in water to ablate tissue properly. Also, absorption in hemoglobin is imperative for char-free coagulation and successful hemostasis. The significance of the EVOLVE™ Laser System is that it provides the highest absorption in water and hemoglobin from the same wavelength. The fiber radiation pattern ensures the effective delivery and focus of the tissue.

EVOLVE™ Laser System :

The World's most powerful Medical Laser System:

for an unmatched performance in speed and effectiveness

Mobile Unit or Portable System:

depending on the setup of your practice, you can choose between the portable laser system or a complete mobile unit with additional light, camera module and monitor

Extremely Quiet:

noise is an unwanted distraction in endourological ORs, our EVOLVE™ Laser System allows you to work in a quiet environment

Automatic Fiber Type Recognition:

The maximum output is based on the connected fiber. The laser detects and protects the fiber type by maintaining secured output parameters (RFID technique)

Auto-Memory Function:

operating the EVOLVE™ Laser System is further simplified by automatically storing the last parameter settings used, ensuring both operator and patient safety

Interdisciplinary Use:

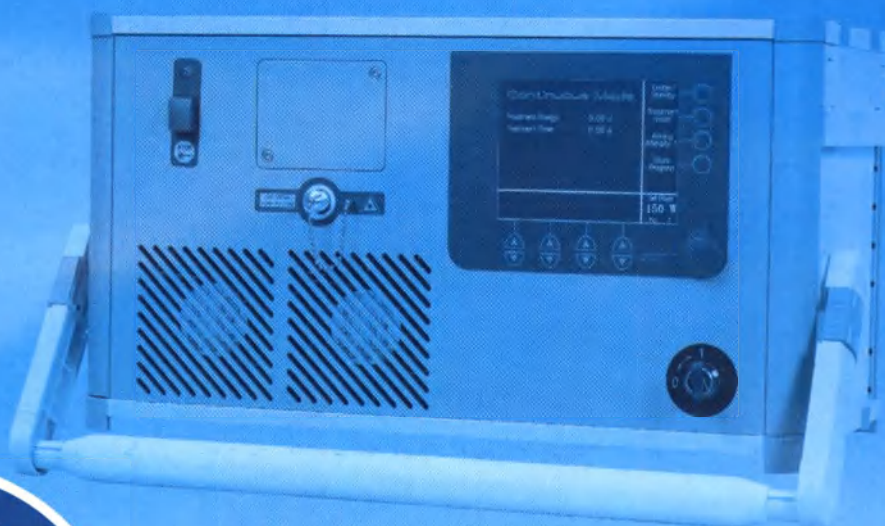
due to EVOLVE™'s small footprint and its low weight, the LIFE™ procedure can easily be incorporated into a mixed-device/mixed-procedure environment within surgical centers

Excellent Visualization:

the wavelength of the EVOLVE™ 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

Minimal Maintenance Costs:

thanks to the long LIFE™ and trouble-free characteristics of biolitec's laser diode technology, high maintenance costs are things of the past

**Specifications:**

Laser type:	diode laser	Wavelength:	980nm
Treatment mode:	continuous-wave or pulsed	Pulse duration:	0.01 – 99.9 sec
Output:	150 Watt	Pilot beam:	635nm – 4mW
Power supply:	115 - 230 VAC, 50/60 Hz	Cooling:	air
Weight:	30 kg	Dimensions:	300 x 560 x 300 mm (H x W x D)

FUSION™

FUSION™ fiber

Designed specifically with a patented fused cap and unique side-fire feature for soft tissue urological procedures, FUSION™ fiber offers unsurpassed performance, reliability and convenience.

- Uniform 600 μ m fiber with a 1.95 mm outside diameter enables maximum performance in conjunction with the EVOLVE™ Laser System.
- Dual indicator lines provide easy visualization for precise targeting of the laser beam.
- Special silica window protects the working tip.
- Unique hand positioning knob facilitates easy reference to beam direction.
- Retraction indicator line for scope safety.

Low beam divergence for high ablation for vaporization of tissue

Visible aiming beam for precise control of the laser beam

Rugged construction

No diameter exchange for smooth transition

Dual indicator lines allow for better positioning of the fiber

A solid orange indicator line located 180° from the exit beam

A solid black indicator line located at the exit beam

Comparison of laser systems on the urology market

EVOLVE™	KTP	HO:YAG
Wavelength 980nm	Wavelength 532nm	Wavelength 2100nm
Highest absorbance of a wavelength in water and hemoglobin	Selectively absorbed in hemoglobin	Selectively absorbed in water
Selective Light Vaporization (SLV) - perfect combination of non-contact vaporization and coagulation.	Non-contact vaporization of soft and vascular tissue. No other indications are possible.	Non-contact ablation through vapor bubbles
Optical penetration depth of the 980nm laser is higher than that of the KTP or Ho:YAG laser	High absorbance in hemoglobin limits penetration depth of KTP laser	Laser energy is absorbed in the superficial layers of tissue
Excellent hemostasis ensures minimal post-operative bleeding and pre-servation of surrounding tissue for a quick recovery	Resulting heat induces a small coagulation zone	Moderate hemostasis requires post-operative catheterization and leads to intra-operative bleeding Tissue removal is superficial, allows for precise cuts, but slow vaporization

The benefits of biolitec's EVOLVE™ technology extend well beyond BPH treatment:

Removal of Bladder Tumors

Removal of Condyloma

Ureterostenosis

Circumcisions



biolitec AG

Winzerlaer Straße 2 · 07745 Jena, Germany
Phone: +49 36 41 50 85 50 · Fax: +49 36 41 50 85 99
E-Mail: info@biolitec.de · <http://www.biolitec.de>

biolitec Italia SRL

Viale Monza 133 · 20123 Milano, Italy
Phone: +39 02 28 17 2 400 · Fax: +39 02 28 17 2 299
E-Mail: info@biolitec.it · <http://www.biolitec.com>

biolitec Inc.

515 A Shaker Road · East Longmeadow, MA 01028, USA
Phone: +1 413 5 25 06 00 · Fax: +1 413 5 25 06 11
E-Mail: info@biolitec.com · <http://www.biolitec.com>

biolitec (M) Sdn. Bhd.

No. 18, Jalan PJS. 7/21 · Bandar Sunway · 46150 Petaling Jaya, Selangor D.E., Malaysia
Phone: +603 56 32 71 28 · Fax: +603 56 38 01 28
E-Mail: info@biolitec.com.my · <http://www.biolitec.com>

biolitec India Pvt. Ltd.

603/604, 6th Floor · Carlton Towers, Airport Road, Bangalore - 560 008, India
Phone: + 91 8041482050
E-Mail: mohan.chinny@biolitec.com · <http://www.biolitec.com>

biolitec FZ LLC

B/P 49 Unit 306 · Dubai Healthcare City · Dubai, UAE
Phone: +971 4 4298 592 · Fax: +971 4 4298 591
E-Mail: detlev.berndt@biolitec.com · <http://www.biolitec.com>

biolitec SIA

Kaniera iela 10a · Riga, LV-1063, Latvia
Phone: + 371 53 43 646 · Fax: + 371 53 07 210
E-mail: info.lv@biolitec.com · <http://www.biolitec.com>

CeramOptec GmbH

Siemensstraße 44 · 53121 Bonn, Germany
Phone: +49 228 97 96 70 · Fax: +49 228 97 96 799
E-Mail: info@ceramoptec.de · <http://www.ceramoptec.de>

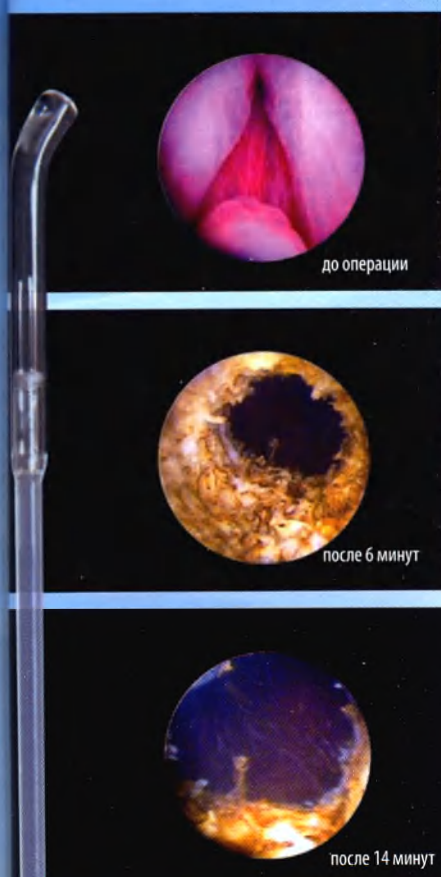
www.biolitec.com

TWISTER™

В сочетании с лазерами серии EVOLVE использование волокна Twister позволяет достигнуть абляции 2-3 грамма в минуту и сократить продолжительность операции на 50% по сравнению с другими волокнами.

Клинические испытания доказали, что продолжительность операции при весе простаты 40-50 грамм составляет менее 15 минут, при сохранении исключительно хорошего гемостаза, характерного для лазерных систем EVOLVE.

EVOLVE™ Laser System



Свойства

- Работа в контакте с тканями.
- Возможность длительного использования.
- Прямая передача энергии.
- Гладкая поверхность вапоризированной области.
- Возможность применения с лазерными системами EVOLVE

Преимущества

- Наибольшая скорость абляции по сравнению с известными волокнами и высокочастотными методами.
- Сокращение времени операции на 50%.
- Отсутствие необходимости очистки конца волокна.
- Отсутствие риска осложнений в конце операции связанного с разрушением волокна.
- Улучшенная управляемость концом волокна.
- Лучшая видимость.
- Исключительная возможность операции верхней части простаты.
- Изогнутая форма и работа в контакте облегчает комбинированное использование вапоризации и энуклеации.
- Врач может эффективно использовать с помощью лазера приемы характерные для трансуретальной резекции

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Биолитек ООО
ул. Бабушкина д.36 корп.1
192171, г Санкт-Петербург
Россия
Тел./Факс: (007)812 4493752
www.biolitec.com

TWISTER™

Уникальное оптическое волокно для эффективной лазерной вапоризации предстательной железы

Новое оптическое волокно Twister отличается уникальной интенсивностью абляции и абсолютной надежностью.

В результате работы в контактном режиме потери мощности и износ оптоволоконка ушли в прошлое. Инновационный изогнутый дизайн волокна Twister позволяет добиться прямого, тактильного контакта с тканями, подлежащими удалению или вапоризации.

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