The future of BPH treatment has come to the office.

www.biolitec.com
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 in an office setting
- Quick recovery
- Limited or no need for post-op catheterization
- No hospitalization post-op required
- Office visit co-pay versus hospital deductible

Low Risk of Complications:
- Can greatly reduce the possibility of retrograde ejaculation
- In most cases, there is no impact on sexual performance or continence
- Wavelength is ideal for vaporization and hemostasis

Clinical Result:

pre-operative  post-operative
Selective Laser Vaporization (SLV)

```
980nm is 2300 times more absorbed in H2O than 532nm
532nm is 74 times more absorbed in HBO2 than 980nm
```

Ex-vivo Evaluation of EVOLVE®

```
Ablation rate for TURP (g/sec)

5 minutes
10 minutes
15 minutes

Device/Output power (Watt)
```

A Complete Procedural System

**EVOLVE Laser System · FUSION™ Fiber**

The EVOLVE Laser is used to vaporize and remove the obstructing prostate tissue that causes the symptoms associated with BPH. The 980nm wavelength of the EVOLVE Laser combined with the FUSION Fiber precisely eliminates the obstruction while causing no damage to the surrounding tissue. This leads to a more rapid recovery with less post-op discomfort compared to traditional surgery.

**Tissue Interaction**

The 980nm wavelength of the EVOLVE Laser System provides the highest combined absorption in water and hemoglobin. Since the prostate contains a high percentage of water, the EVOLVE Laser vaporizes tissue effectively. Absorption of the laser energy by hemoglobin leads to excellent hemostasis combined with precise ablation of the obstructing tissue.

**EVOLVE 150 Laser System**

**The World’s Most Powerful Medical Laser System:**
*For 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 light 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:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser type</td>
<td>diode laser</td>
</tr>
<tr>
<td>Treatment mode</td>
<td>continuous-wave or pulsed</td>
</tr>
<tr>
<td>Output</td>
<td>up to 150 Watts</td>
</tr>
<tr>
<td>Cooling</td>
<td>air</td>
</tr>
<tr>
<td>Weight</td>
<td>66.1 lbs (30 kg)</td>
</tr>
<tr>
<td>Wavelength</td>
<td>980nm</td>
</tr>
<tr>
<td>Pulse duration</td>
<td>0.01 – 99.9 sec</td>
</tr>
<tr>
<td>Aiming beam</td>
<td>635nm – 4mW</td>
</tr>
<tr>
<td>Dimensions</td>
<td>22W x 12D x 12H (in); 56W x 30D x 30H (cm)</td>
</tr>
<tr>
<td>Power supply</td>
<td>220 V / 110 V, 50/60 Hz</td>
</tr>
</tbody>
</table>
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 µm 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
## Comparison of Laser Systems on the Urology Market

<table>
<thead>
<tr>
<th>EVOLVE</th>
<th>KTP</th>
<th>Ho:YAG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength 980nm</td>
<td>Wavelength 532nm</td>
<td>Wavelength 2100nm</td>
</tr>
<tr>
<td>Highest combined absorption in water and hemoglobin</td>
<td>Selectively absorbed in hemoglobin</td>
<td>Selectively absorbed in water</td>
</tr>
<tr>
<td>Selective Light Vaporization (SLV) – perfect combination of contact vaporization and hemostasis</td>
<td>Non-contact vaporization of soft and vascular tissue. No other indications are possible.</td>
<td>Non-contact ablation through vapor bubbles</td>
</tr>
<tr>
<td>Excellent hemostasis ensures minimal post-operative bleeding and preservation of surrounding tissue for a quick recovery</td>
<td>Resulting heat induces a small coagulation zone</td>
<td>Moderate hemostasis requires post-operative catheterization and can lead to intra-operative bleeding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tissue removal is superficial, allows for precise cuts, but slow vaporization</td>
</tr>
</tbody>
</table>

### The benefits of biolitec’s EVOLVE® technology extend well beyond BPH treatment:

<table>
<thead>
<tr>
<th>Bladder Tumors</th>
<th>Bladder Neck Condyloma</th>
<th>Urethra Strictures</th>
<th>External Genital Lesions such as Condyloma</th>
</tr>
</thead>
</table>
biolitec AG
Winzerlaer Straße 2 · D-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 Inc.
515 A Shaker Road · East Longmeadow, MA 01028, USA
Phone: +800 934 2377 · Fax: +1 413 525 0611
E-Mail: info@biolitec-us.com · http://www.biolitec-us.com

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 (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, Carlton Towers, Airport Road · Bangalore-8, India
Phone: + 91 80 4148 2050
E-Mail: info@biolitec.com · http://www.biolitec.com

biolitec FZ LLC
B/P 49 Unit 306 · P.O. Box 505072 · Dubai Healthcare City · United Arab Emirates
Phone: +97 1 507946118

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

www.biolitec.com

EVOLVE® is a registered trademark of biolitec, Inc.