

Special Feature: Urology

Key Diseases and Treatments that Drive Urology Growth

Benign Prostate Hyperplasia (BPH)

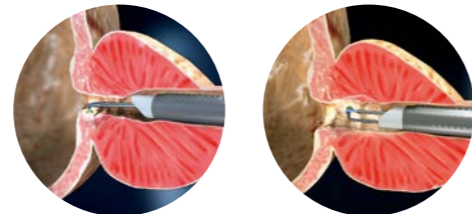
Method of Treatment Treatment through Non-Ablative Device

Olympus is rolling out iTind, a minimally invasive treatment device that ensures urine flow by expanding the urethra over the span of five days after longitudinally implanting a three-wire nitinol device in the prostate. iTind enables a patient to be treated at a doctor's office or clinic, returning home the same day, and to achieve resolution of symptoms without a permanent implant left behind.



Method of Treatment Transurethral Resection (TUR)

TUR is a procedure in which a surgeon inserts a resectoscope from the urethra and then, using the handle, operates a loop-shaped electrode to surgically resect tissue from an enlarged prostate or a bladder tumor with an electro-surgical knife. For a safe procedure and precise resection, the solution from Olympus is the TURis procedure, in which a resection is performed by discharging electricity from the entire area surrounding the electrode through saline.



Resection of the enlarged prostate when a resectoscope is inserted transurethral near the neck of the urinary bladder



Urinary Stone

Method of Treatment Transurethral Lithotripsy (TUL)

During Lithotripsy, an urologist navigates an endoscope through the urinary tract and uses laser or ultrasonic energy to break up one or more stones in the bladder, ureter, or kidney. The resulting stone fragments may be expelled naturally or can be removed using stone retrieval baskets.

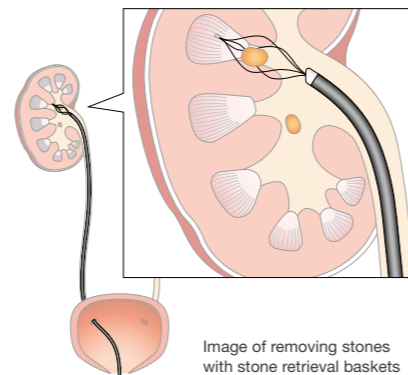


Image of removing stones with stone retrieval baskets



Therapeutic Solutions Business has made steady progress towards our financial targets and delivered above market growth. Although all our businesses performed well, the growth in Urology has been exceptionally strong. Some highlights underpinning our current and future urology growth are highlighted below:

Our Solutions

Outline

- Minimally invasive treatment device for BPH expected to expand in the market in the future.
- iTind enables a patient to be treated at a doctor's office or clinic, returning home the same day, to achieve resolution of symptoms without a permanent implant left behind and to lower the risk of sexual dysfunction.
- Sales area: U.S., Europe
- Future growth outlook: double-digit growth over next 3 years



iTind

Outline

- Olympus originally introduced the 1st PLASMA solution more than 15 years ago. In 2021 the 3rd generation PLASMA+ system was launched, delivering improved performance, treatment options, safety and cost and time efficiency.
- Differentiated PLASMA+ technology provides Urologists with a market-leading integrated platform of resectoscopes, electrodes and energy generators.
- Sales area: Americas, Europe, Asia, Japan and China
- Future growth outlook: mid single-digit growth over next 3 years



PLASMA+ System (ESG-410 and Electrodes)

Our Solutions

Outline



SOLTIVE SuperPulsed Laser System

- Olympus pioneered the use of Thulium Fiber Laser (TFL) technology for kidney stone treatment through the SOLTIVE launch in 2020.
- SOLTIVE delivers exceptional performance in a surprisingly small and versatile package, capable of dusting stones in half the time with virtually no retro-pulsion in a footprint 1/8th the size of conventional high powered laser systems.
- Clinical research indicates that SOLTIVE may offer the potential for shorter procedure times, better patient outcomes and lower procedure costs than those performed with Holmium YAG lasers.*
- Sales area: Americas, Europe, and some parts of Asia
- Future growth outlook: double-digit growth over next 3 years

Advantages of the Thulium Fiber Laser

- The effects of the Thulium Fiber laser system are made possible by a laser module configuration unique within the medical field, offering the broadest range of settings available, including very low energies and high frequencies that can deliver superior performance across a range of applications.
- Further, laser energy is emitted at 1940 nanometers, the optimal wavelength for peak absorption in water. This allows more than four times greater energy absorption than any Holmium YAG laser system, the current standard of care marketed today.

*Ryan, JR; Nguyen, MH; Linscott, JA; Nowicki, SW; Jumper, BM; Ingimarsson, JP; "PD54-07: Thulium Fiber Laser Results in Shorter Operating Times During Ureteroscopy and Laser Lithotripsy," The Journal of Urology, September 2021; accessed Nov. 2, 2021.
Disclaimer: These abstract study findings are early analysis and may change with further, more complete analysis. Generalizability of economic impact to other institutions is not specific and is limited.
Note: Products or devices presented include future technology which may be pending regional regulatory approval and are not available for sale in all regions.