Leading Innovation for Urinary Stones Treatment
Urinary stones, a growing phenomena

Increasing number of procedures\(^1,2\)
- Urinary stones are affecting a growing part of the world’s population
- Prevalence has quadrupled in the last four decades, affecting 1 out of 8 Americans throughout their lifetime
- In the next couple of years, stones would take an even greater portion of urologists’ day-to-day work

Rethinking Operating Room Management
With more demand for stones treatments, and new regulatory requirements, physicians and health institutions are expected to embrace new and advanced technologies to provide them with:
- Shorter procedural time
- Less post operative complications
- Reduced re-operation rates

<table>
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<tr>
<th>Number of Urology Procedures in the US(^3)</th>
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<td>2010</td>
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<td>Stones 42%</td>
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<tr>
<td>Urodynamic 31%</td>
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<tr>
<td>Urinary incontinence 13%</td>
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<tr>
<td>BPH 11%</td>
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<tr>
<td>Others 3%</td>
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</table>

| 2020E                                       |
| Stones 64%                                  |
| Urodynamic 20%                              |
| Urinary incontinence 7%                     |
| BPH 7%                                      |
| Others 2%                                   |
LUMENIS - YOUR PARTNER FOR ADVANCED LITHOTRIPSY
MOSES™ TECHNOLOGY

Reframing the laws of physics
A proprietary combination of holmium lasers and fibers, offering a new standard in laser lithotripsy

20% REDUCTION IN PROCEDURE TIME
25% REDUCTION IN FRAGMENTATION TIME
60% LESS RETROPULSION
OPTIMIZED ENERGY TRANSMISSION

When compared with regular holmium laser, MOSES Technology resulted in significantly shorter fragmentation and procedural times.

Dr. Sero Andonian
McGill University Health Center, Dept. Of Urology, Montreal, Canada
Minimum retropulsion – maximum control
Moses technology significantly reduces retropulsion during lithotripsy and minimizes stone migration, resulting in better physician control. Pre-clinical experience suggests that minimized retropulsion may also lead to shorter procedure time.4,5

Smooth process - more confidence
Advanced ball-shaped tip enables a smooth initial insertion of the Moses 200 D/F/L fiber through a flexible scope, and designed to minimize potential scope damage.6

Experience optimized energy transmission
Groundbreaking pulse delivery technology remarkably improves energy transmission, overcoming energy reduction in working distances.5

Leave no stone behind
Moses 200 D/F/L flexible fiber is designed to minimize scope deflection loss6, allowing to reach difficult-to-access stone locations.
SIMPLY DUST IT AWAY

By using Lumenis’ high power laser systems, providing >50Hz repetition rate, you can efficiently pulverize stones into dust and let them drain spontaneously – minimizing the need for ureteral access sheath or retrieval devices.

The Lumenis Pulse 120H offers ultra speed dusting capabilities, with 80Hz repetition rate for more effective procedures.

LESS DEPENDENCY ON RETRIEVAL DEVICES

The avoidance of retrieval devices may decrease the risk of ureteral injury and intra-op complications, as well as save on costs.

“We demonstrated an improvement in complete stone-free rates when using a dusting technique for renal stones with ultra-high frequencies.

Dr. Khurshid Ghani

AUA 2016 poster presentation"
BETTER CONTROL PROVIDED BY AN END-TO-END LASER LITHOTRIPSY AND PCNL SOLUTION

A tailored suction handpiece, designed to enhance physician control, allowing to simultaneously lase and extract very small stone particles.

OPTIMAL USABILITY – ONE PHYSICIAN CONTROLS ALL

Lumenis Suction Handpiece reduces the need for suction and fiber control personnel assistance during procedures.

The suction hand piece offered the best laser fiber visibility during lithotripsy

Dr. James E. Lingeman
Lumenis Pulse Family – Holmium lasers for every need

MOSES™ TECHNOLOGY

LUMENIS PULSE 120H
All in one urology platform

- **120** WATT
- **6J** Maximum Energy
- **80Hz** Maximum Repetition rate

LUMENIS PULSE 100H
Designed for efficiency

- **100** WATT
- **3.5J** Maximum Energy
- **53Hz** Maximum Repetition rate
LUMENIS PULSE 50H
Performance versatility

- 50 WATT
- 3.5J Maximum Energy
- 25Hz Maximum Repetition rate

LUMENIS PULSE 30H
Powerful impact on every stone

- 30 WATT
- 5J Maximum Energy
- 25Hz Maximum Repetition rate
ADDING MORE CONFIDENCE TO YOUR PROCEDURES

The Lumenis fibers are specifically tailored and validated for optimal performance with Lumenis lasers. This results in improved energy transmission, and minimized risk of system or fiber damage. 

IMPROVED FIBER EXPERIENCE

Lumenis Slimline 200 D/F/L and Moses 200 D/F/L ball-tip fibers can bend up to 6 mm in diameter, enabling accessibility to difficult-to-reach areas, allowing smooth initial fiber insertion through a deflected scope.

Flexibility and durability are the main characteristics for safe and efficient lithotripsy. Lumenis SlimLine 200 had the best flexibility in our study and equivalent durability, compared to a premium fiber in the market.

Prof. Olivier Traxer
Tenon Hospital, Paris, France
EAU poster presentation

Designed for durability, flexibility and versatility in lithotripsy procedures
Powerful and robust fragmentation

FRAGMENT STONES LIKE NEVER BEFORE

With Lumenis laser systems providing energy of up to 6J, you can achieve improved fragmentation rate – even for very large stones.

EXPERIENCE A VARIETY OF FRAGMENTATION SETTINGS THAT FIT YOUR NEEDS

Leverage the versatility provided by Lumenis’ solutions to treat either hard or soft stones, with numerous energy-frequency settings.

Stone Fragmentation Rate

The higher the energy the larger the crater

Crater volume as function of joules

6. Bench test results may not necessarily be indicative of clinical performance
8. James Tracey, Galina Gagn, Duncan Morhardt, John Hollingsworth, Khurshed Ghani, Ann Arbor, Mi. Flexible ureteroscopy and laser lithotripsy for renal stones using ‘Pop-dusting’: Comparison of outcomes between traditional
12. Andonian et al. Double-blinded Prospective Randomized Clinical Trial Comparing Moses and Regular Modes of Holmium Laser Lithotripsy: Preliminary Results. Podium presentation at EAU 2018
PROFESSIONAL SERVICE
AT YOUR FINGERTIPS
OFFER BETTER PATIENT CARE WITH PREMIUM CUSTOMER SUPPORT

We are committed to providing the highest quality and the most comprehensive service for medical equipment repair and maintenance.

LUMENIS SERVICE OFFERS YOU:

- Maximum system uptime
- Extensive nationwide presence
- Highly experienced certified service engineers with average tenure of 14 years
- Technical support call center 24/7/365
- Preventative maintenance and software updates

98% of our customers are SATISFIED with Lumenis Service

100% satisfaction rate with Lumenis CERTIFIED Service Engineers
With extensive **clinical experience** and **advanced technology**, Lumenis is best positioned to answer the growing demands in stone lithotripsy.

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<th>MOSIS™</th>
<th>Complete PCNL</th>
<th>Ultra Speed dusting</th>
<th>&gt;50Hz+ dusting</th>
<th>Robust Fragmentation</th>
<th>Tailored fibers</th>
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<tr>
<td>Lumenis Pulse 120H</td>
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**Risk information**

The use of the Lumenis Pulse 120H, Lumenis Pulse 100H, Lumenis Pulse 50H, and Lumenis Pulse 30H in urology is contradicted for patients who are unable to receive endoscopic treatments or are intolerant to prolonged anesthesia, as well as for resection or excision of large vascularized organs.

Holmium lasers are intended solely for use by physicians trained in the use of the Ho:YAG (2.1 μm) wavelength. Incorrect treatment settings can cause serious tissue damage. The laser should be used only on tissues that are fully observable.

See the system user manual for a complete list of contraindications and risks.
Lumenis - a Heritage of Innovation in Urology for Nearly Three decades

Launched VersaPulse® Holmium laser systems

1996

Launched VersaPulse® C

1990

Launched:
- VersaPulse® PowerSuite®, the world’s first 100W holmium laser for BPH

2000

Launched VersaPulse® P20

2010

Launched:
- Lumenis Pulse 100H
- Lumenis Pulse 50H

2015

Launched:
- Lumenis Pulse 120H
- Xpeeda™ D/S/L Side Firing Fiber
- SlimLine 200 D/F/L Fiber

2014

Launched:
- VersaPulse® PowerSuite™, revolutionizing holmium laser lithotripsy

2017

Launched Moses Technology™

2016

Launched:
- Lumenis Pulse 30H
- PCNL suction handpiece
LASER CLASS 4 / IV
Holmium:YAG Laser: 2.1 μm, 6 J max, 1300 μs pulse max.

LASER CLASS 3R / IIIa
DPSS Laser: 532 nm, 5 mW max, CW

VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION

CLASS 4 LASER PRODUCT per IEC 60825-1: 2007
CLASS IIIA LASER PRODUCT per 21 CFR 1040.10 AND 1040.11
except for deviations pursuant to laser Notice No. 50 dated June 26, 2007.