



**Lumenis Pulse™ 120H Holmium Laser System  
with MOSES™ 2.0 Technology**

All-in-one urology laser platform

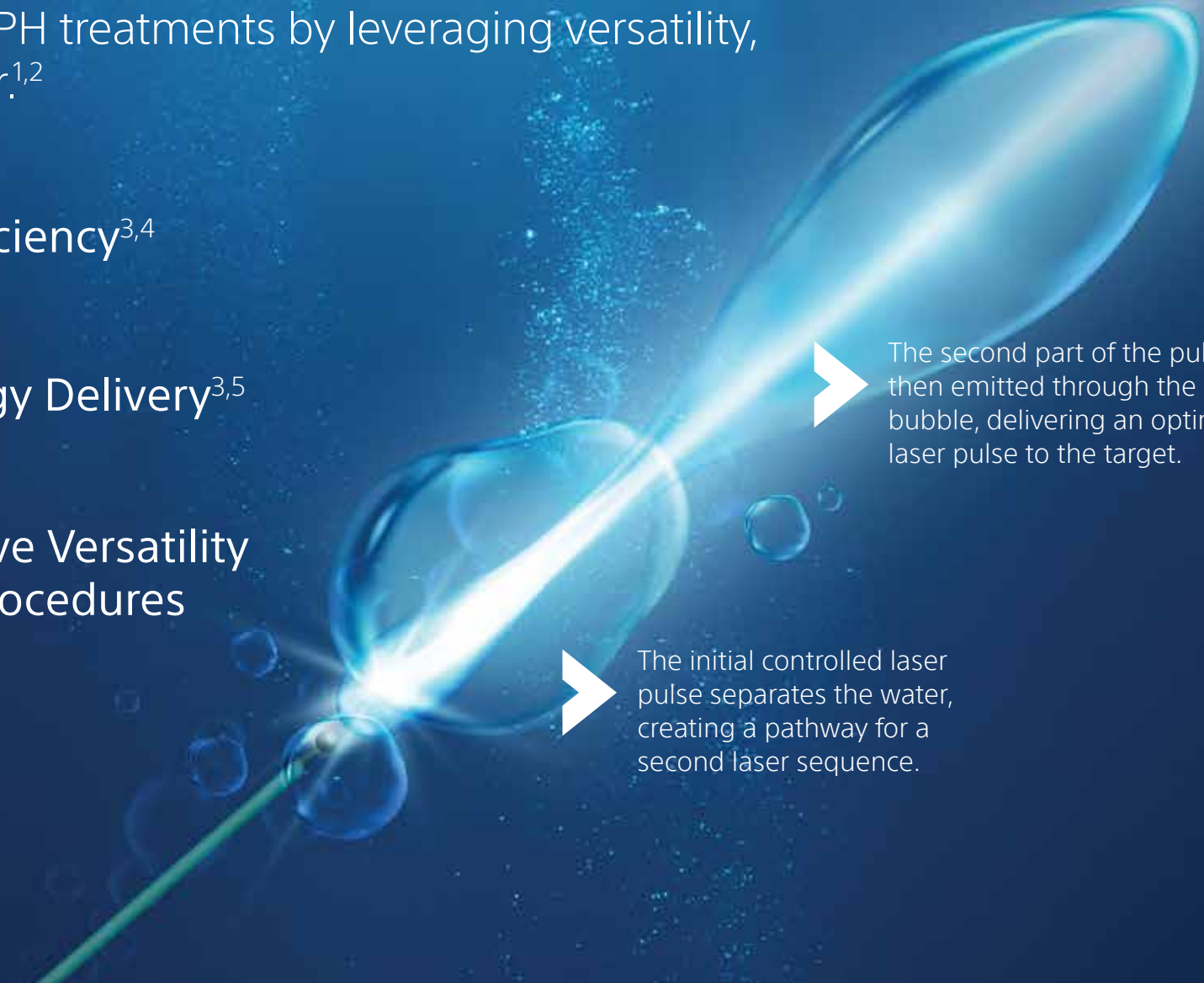
# Lumenis Pulse™ 120H with MOSES™ 2.0 Technology

The MOSES 2.0 Technology advances the next generation of Lithotripsy and BPH treatments by leveraging versatility, speed and power.<sup>1,2</sup>

▶ Increased Efficiency<sup>3,4</sup>

▶ Optimal Energy Delivery<sup>3,5</sup>

▶ Comprehensive Versatility for Urology Procedures



The diagram illustrates the MOSES 2.0 laser pulse mechanism. A green laser fiber enters from the bottom left, emitting a bright blue laser pulse that creates a large, elongated bubble. A second, smaller bubble is shown further along the path of the pulse. A white arrow points from the text to the second bubble. The background is a deep blue with a subtle pattern of small bubbles and light rays.

The second part of the pulse is then emitted through the initial bubble, delivering an optimized laser pulse to the target.

The initial controlled laser pulse separates the water, creating a pathway for a second laser sequence.

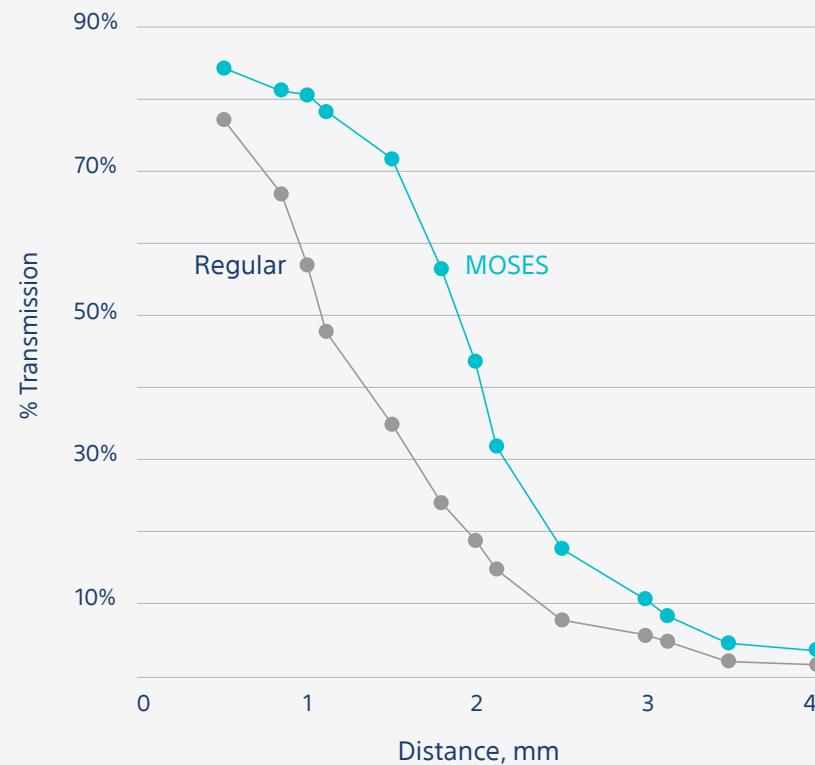
# MOSES™ 2.0 Technology for Lithotripsy

Improving the gold standard for laser lithotripsy<sup>8</sup>

Be it a kidney, ureteral or bladder stone, soft or hard - MOSES 2.0 Technology provides you with the speed and power you need for both ureteroscopic and percutaneous stone treatments.<sup>\*,3,9,10,11</sup>



Efficient energy transmission for each working distance<sup>\*\*12</sup>



Bench test, a representative case<sup>\*,12</sup>  
BSC recreated graph<sup>12</sup>

\*Bench test results may not necessarily be indicative of clinical performance.

\*\* Compared to standard holmium.

# Lithotripsy Performance, Unleashed

Embrace best-in-class combination of the MOSES™ 2.0 laser and fibers



## 20% Faster procedures

As shown in a randomized clinical trial, the MOSES 2.0 Technology reduces procedure time by 20%, making your treatments faster and more efficient.<sup>3</sup>

## 33% Improved fragmentation efficiency

MOSES 2.0 Technology high precision and optimized impact on the target stone makes the most of every shot, leading to a greater ablation rate compared to regular pulses.<sup>3</sup>

## 50% Reduced retropulsion

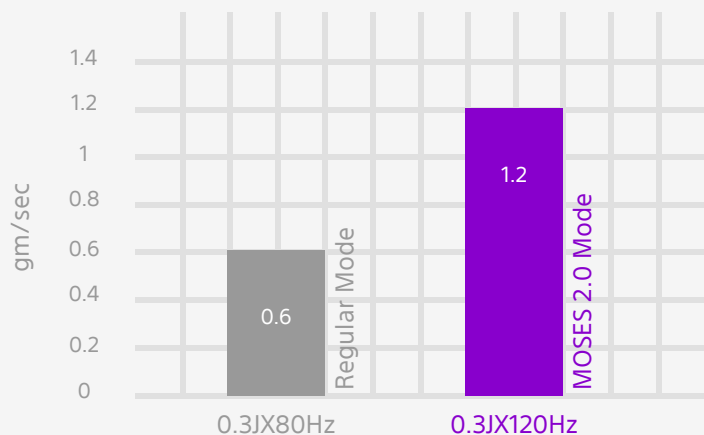
The MOSES 2.0 Technology has taken retropulsion reduction to the next level, decreasing retropulsion levels by 50%.<sup>3</sup>

## 120<sub>Hz</sub> Comprehensive stone management

From ultra-speed stone dusting, through unprecedented pop-corning settings - MOSES 2.0 Technology offers the speed and energy you need - when you need it.

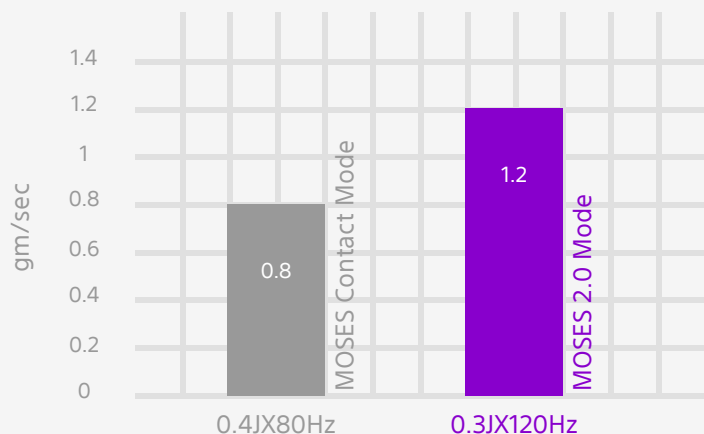
# MOSES™ 2.0 Technology Increased Efficiencies

92% greater stone ablation at same energy



Bench test, a representative case<sup>9</sup>

42% greater stone ablation at similar power



Bench test, a representative case<sup>9</sup>

\*Bench test results may not necessarily be indicative of clinical performance.

Focus on what matters in your percutaneous approach

## Standard, Mini and UltraMini PCNL

MOSES 2.0 Technology provides smaller stone particles compared to standard holmium, allowing you to miniaturize your percutaneous access.\*<sup>13-15</sup>

12% REDUCTION IN TOTAL OPERATIVE TIME<sup>+, \*\*, 11</sup>

33% IMPROVEMENT IN EFFICIENCY<sup>+, \*\*, 11</sup>

+ Boston Scientific calculations for improvement in total operative time & treatment efficiency respectively: 85.9 vs 98.1 min, p=0.03 | 2.4 vs 1.8 mm<sup>3</sup>/s, p=0.03.

\*\*MOSES Technology compared to standard holmium laser.



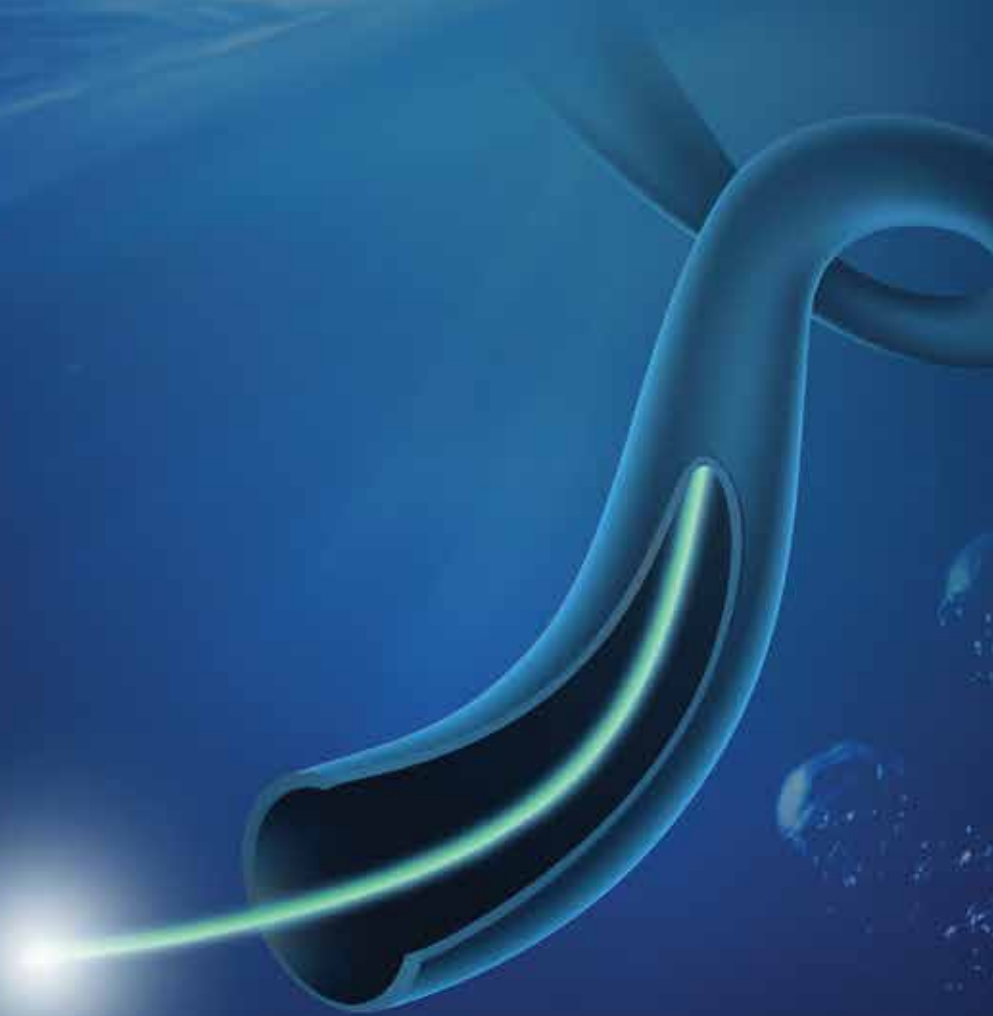
## Leave no stone behind

MOSES™ 200 D/F/L flexible fiber is designed to minimize scope deflection loss, enabling you to reach difficult-to-access stone locations.



## 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, designed to minimize potential scope damage.



# HoLEP with MOSES™ 2.0 Technology:

## Shifting paradigms

HoLEP provides excellent and durable clinical outcomes (PVR, Qmax, IPSS and QoL) with a reoperation rate as a result of recurrent obstruction from residual adenoma of only 0.7% at 10-year follow-up.<sup>16</sup>

Moreover, HoLEP demonstrates better outcomes with regards to hemoglobin loss, bladder irrigation, catheterization time, hospital stay and blood transfusion.<sup>\*17</sup>

The groundbreaking MOSES 2.0 Technology offers an efficient treatment for a wide range of patients including a broad range of prostate sizes and patients treated with anticoagulants.<sup>2,18</sup>

\*HoLEP vs. TURP

 **90+%**  
Same-day  
Discharge<sup>5</sup>

 **40%**  
Faster  
Hemostasis<sup>\*\*5</sup>

 **15%**  
Faster  
Enucleation<sup>\*\*5</sup>

\*\*Compared to standard holmium.

# MOSES™ 2.0 Technology for HoLEP

Versatility for different prostate sizes,  
patients, techniques<sup>18-20</sup>



**90+% same-day discharge, 90% same-day catheter-free success rate\***

With more efficient procedures and significantly reduced blood loss – MOSES 2.0 Technology for BPH results in over 90% of patients being discharged on the same day, and same-day catheter removal has been demonstrated with a 90% success rate.<sup>2,4,5</sup>

\*In select patients





### Faster procedures

With 15% faster enucleation and 40% faster hemostasis\* – MOSES™ 2.0 Technology for BPH provides the ability to cut and cauterize, which can significantly reduce surgical time and overall operating room time.<sup>5</sup>



### Faster learning curve

The MOSES 2.0 Technology allows the ability to learn the HoLEP technique, and build confidence after 20 procedures supervised by an experienced urologist.<sup>21</sup>

With faster hemostasis, MOSES 2.0 Technology for BPH can enable a tapered learning curve by providing better vision clarity and control during the procedure.<sup>\*5,22</sup>

\*Compared to standard holmium.

*"With Moses 2.0 the learner can focus on mastering HoLEP without distractions. Minimal fiber burnback and movement, and improved hemostasis decreasing surgery interruptions and allowing for more precise laser control."*

Dr. Amy E. Krambeck  
Professor of Urology, Northwestern Medical

# A Powerful MOSES™ 2.0 Technology Solution for Vaporization<sup>23</sup>



Higher vaporization rate and efficacy

Holmium laser vaporization of the prostate (HoLVP)\* with MOSES 2.0 Technology demonstrates 95%\*\* higher ablation efficiency compared to standard HoLVP, translating into time savings in the operating room.<sup>23</sup>



Long-lasting results\*\*\*

HoLVP demonstrates durable results of 83%. Qmax improvement and 47% decrease in AUA score.<sup>24</sup>



Maintain hemostasis

Holmium laser provides precise and quick vaporization of tissue with the ability to maintain hemostasis without thermal injury to tissue.<sup>25,26</sup>

\*HoLAP (ablation) was recognized and used interchangeably with HoLVP (vaporization) in the AUA guidelines through 2011 and the EAU guidelines through 2014.<sup>27,28</sup>

\*\*BSC Calculations:  $0.91 \pm 0.54$  g/min vs  $1.77 \pm 1.41$  g/min,  $P = 0.01$

\*\*\*Study of 7 years, compared to baseline,  $N=34$ .

# Technical Specifications

## Lumenis Pulse™ 120H Holmium Laser with MOSES™ 2.0 Technology

|                       |                                     |
|-----------------------|-------------------------------------|
| MOSES 2.0 Technology  | Lithotripsy & BPH                   |
| Maximum Optical Power | 120 W                               |
| Wavelength            | Holmium (2.1 µm)                    |
| Repetition Rate       | 5-120Hz                             |
| Pulse Energy          | 0.2-6 J                             |
| Integrated Suction    | Yes                                 |
| Case Saver Mode       | Yes                                 |
| Dual Pedal Footswitch | Yes                                 |
| Pulse Width           | Adjustable<br>(Short, Medium, Long) |

|                                                           |                                |
|-----------------------------------------------------------|--------------------------------|
| Fibers                                                    | Reusable and single-use fibers |
| Smart Identification System (SIS)                         | Yes                            |
| Aiming Beam                                               | Green                          |
| Fiber Support Arm                                         | Optional                       |
| Weight                                                    | 260 kg                         |
| Dimensions [W / L / H]                                    | 47 x 116 x 105 cm              |
| Voice Confirmation Indicating System's Operational Status | Yes                            |
| Electrical                                                | 200-240 VAC, <46 Amp, 50/60 Hz |
| Warranty                                                  | One year parts and labor       |

### Risk Information:

The use of MOSES Technology in Urology, enabled in the Lumenis Pulse 120H system, is contraindicated 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.



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The MOSES™ 2.0 Technology is inclusive of all MOSES™ 1.0 settings and features.

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