

## LithoVue™ Single-Use Digital Ureteroscope

### A single use solution for urologists

Kidney stones are quite common and usually affect people aged 30 to 60 years, as well as more men than women.<sup>1</sup> To diagnose kidney stones and other conditions of the kidney, ureter and bladder, doctors perform a procedure called ureteroscopy, which involves inserting a special telescope, called a ureteroscope, into the urethra and then passing it through to the bladder and then into the ureter and kidney.

The new Boston Scientific LithoVue™ Single-Use Digital Ureteroscope provides **high-quality visualisation and navigation to help urologists access, diagnose and treat stones and other conditions of the kidney, ureter and bladder.**

Kidney Stones are responsible for more than 12,000 hospital admissions each year.<sup>2</sup> Until now, urologists have relied upon reusable digital ureteroscopes, which are associated with several limitations and challenges, including<sup>3,4,5,6,7:</sup>

- Significant cost of acquisition
- Breakage, repairs and associated unpredictable repair costs
- Degradation of performance over time
- Substantial time, expense and complexity of reprocessing
- Potential procedural delays due to lack of scope availability resulting from scope repairs and reprocessing hold-ups

By providing urologists with a single-use solution, the LithoVue System eliminates the inconsistent performance and maintenance challenges associated with reusable scopes and is **designed to help urologists remove kidney stones quickly, easily, safely and affordably.**

It has also been designed with **environmental responsibility** in mind:

- Use of the LithoVue system decreases waste from disinfecting consumables such as brushes, towels and test strips<sup>8,9,10,11</sup>
- It helps reduce water and energy costs, as well as reprocessing requirements<sup>12,13</sup>
- LithoVue eliminates staff exposure to harmful toxic chemicals and the disinfecting consumables used to reprocess reusable scopes after every single use<sup>14,15,16,17,18,19</sup>

Boston Scientific has also worked with suppliers to incorporate recycling concerns into the LithoVue System packaging content.

#### **LithoVue System Highlights:**

- 270° scope deflection in both directions for accurate navigation
- 7.7F tip diameter and 9.5F outer diameter fits the average patient ureter with renal colic<sup>20</sup>
- To maximize visibility, a digital CMOS imager with a working distance of 2mm–50mm produces superb quality images across a depth of field that is equivalent to or better than those from other commonly used reusable scopes on the market<sup>21</sup>
- Light source built into ergonomic control handle

- Can be integrated into operating theatre processes:
  - Either used alone or connected to existing digital visual interface monitors and recording systems
  - Fully compatible with laser lithotripsy using existing technologies – with little or no interference from laser firing

**Media contacts:**

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**References**

- <sup>1</sup> NHS Choices. Last accessed February 2016. <http://www.nhs.uk/Conditions/Kidney-stones/Pages/Introduction.aspx>
- <sup>2</sup> The British Association of Urological Surgeons. Last accessed February 2016 [http://www.baus.org.uk/patients/conditions/6/kidney\\_stones](http://www.baus.org.uk/patients/conditions/6/kidney_stones)
- <sup>3</sup> Collins JW, Keeley FX, Timoney A. Cost analysis of flexible ureterorenoscopy. *Br J Urol.* 2004;93(7):1023-6.
- <sup>4</sup> Carey RI, Martin CJ, Knego JR. Prospective evaluation of refurbished flexible ureteroscope durability seen in a large public tertiary care center with multiple surgeons. *Urology.* 2014;84:42-5.
- <sup>5</sup> Shah K, Monga M, Knudsen B. Prospective randomized trial comparing 2 flexible digital ureteroscopes: ACMI/Olympus Invisio DUR-D and Olympus URF-V. *Urology.* 2015;85(6):1267-71.
- <sup>6</sup> Knudsen BE, Ferraro M. Digital video flexible ureteroscopy: GyruSACMI/Olympus Invisio®DUR®-D twelve month failure and repair experience. NCS 2009.

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- <sup>7</sup> Knudsen B, Miyaoka R, Shah K, et al. Durability of the next-generation flexible fiberoptic ureteroscopes: A randomized prospective multi-institutional clinical trial. *Urology*. 2010;75:534-9.
- <sup>8</sup> Olympus Medical Systems Corporation. Uretero-reno videoscope Olympus URF Type V. Japan, 2014.
- <sup>9</sup> PENTAX Medical Company. Pentax ureteroreno fiberscope FUR-9P. Japan, 2011.
- <sup>10</sup> Richard Wolf Medical Instruments Corporation. Flexible fiber ureteroscope 7325.071/7325.076. United States, 2013.
- <sup>11</sup> Stryker Corporation. Stryker ideal eyes HD URT-7000S/7000Si flexible video ureteroscope. United States, 2012.
- <sup>12</sup> ECRI Institute. Endoscope Reprocessing Systems. Tech IQ. 2014.
- <sup>13</sup> Pfiedler Enterprises. The care and handling of rigid and flexible scopes (an online continuing education activity). Aurora, CO, 2013.
- <sup>14</sup> Rutala WA, Weber DJ. Healthcare Infection Control Practices Advisory Committee HICPAC. Guideline for Disinfection and Sterilization in Healthcare Facilities, 2008. Department of Health and Human Services; 2008.
- <sup>15</sup> Clemens JQ, Dowling R, Foley F, et al. Joint AUA/SUNA white paper on reprocessing of flexible cystoscopes. *J Urol*. 2014;184(6):2241-5.
- <sup>16</sup> Park S, Jang JY, Koo JS, et al. A review of current disinfectants for gastrointestinal endoscopic reprocessing. *Clin Endosc*. 2013;6(4):337-41.
- <sup>17</sup> Smith DR, Wang RS. Glutaraldehyde exposure and its occupational impact in the health care environment. *Environ Health Prev Med*. 2006;11(1):3-10.
- <sup>18</sup> Takigawa T, Endo Y. Effects of glutaraldehyde exposure on human health. *J Occup Health*. 2006;48(2):75-87.
- <sup>19</sup> Rideout K, Teschke K, Dimich-Ward H, et al. Considering risks to healthcare workers from glutaraldehyde alternatives in high-level disinfection. *J Hosp Infect*. 2005;59(1):4-
- <sup>20</sup> Song HJ, Cho ST, Kim KK. Investigation of the location of the ureteral stone and diameter of the ureter in patients with renal colic. *Korean J Urol*. 2010;51(3):198-201.
- <sup>21</sup> Eisner B. Evaluating the image quality of a novel single-use digital flexible ureteroscope. *J Endourol*. 2015;29(1):A348

**CAUTION: Law restricts this device to sale by or on the order of a physician. Indications, contraindications, precautions and warnings can be found with product labelling supplied with each device. Information for the use only in countries with applicable health authority product registrations.**

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