One entry into the abdomen was already installed by nature.
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LESS 2.0

SINGLE ACCESS SITE
LESS Surgery signals a further advancement for the future of minimally invasive surgery. Standard laparoscopic access to the abdomen can now be achieved through just one small incision. The small scar remaining will be hidden in the umbilicus. The key to LESS Surgery is a dedicated port allowing for simultaneous access by up to four independent instruments: The new TriPort+.

SEE & TREAT
Olympus is committed to advancing LESS Surgery. This new operating technique requires a special type of port as well as dedicated instruments and imaging technologies that work together closely. To facilitate surgeons’ access to this new method, Olympus has tailored a complete system for LESS Surgery. The new, second-generation TriPort+, the “EndoEYE” flexible laparoscopes and ergonomic hand instruments are all designed with the operators’ requirements for LESS Surgery in mind. See & Treat with Olympus.

TRAINING PROGRAM
Discover how LESS Surgery can change your daily practice! Olympus has developed a curriculum for major LESS procedures. Contact your local representative for more information.

THE NEXT GENERATION

POTENTIAL BENEFITS OF LESS SURGERY
- Umbilical incision results in better cosmesis.
- Wound complications are reduced to the single access site.
- Postoperative pain may be further minimised.
- Potentially faster recovery.

TriPort+
- 3 + 1 valve: Improves retraction.
- Gas-tight, “duckbill” valves.
- Easily removable top for specimen extraction.

FOR DETAILED INFORMATION ABOUT LESS SURGERY:
less-surgery.eu
NEW PERSPECTIVES FOR MANY APPLICATIONS

GENERAL SURGERY: Laparoscopic cholecystectomy is traditionally performed through three to four ports. Imagine performing this through a single umbilical access site leaving virtually no scars? General surgeons have already safely performed this procedure using the TriPort routinely. Many endoscopic procedures – from appendectomies to colorectal resections – are now performed using the LESS technique.

UROLOGY: Nephrectomy and prostatectomy are two of the most common laparoscopic procedures in urology. Imagine the umbilicus becoming the natural single port for performing complex operative procedures? In 2007, urologists performed the first LESS nephrectomies through a single site. Since then, the number of complex LESS Surgeries in urology has been increasing continuously.

GYNAECOLOGY: Laparoscopic procedures are very common in gynaecology. Imagine the operating time of LESS procedures not differing much from that of conventional laparoscopic surgeries? At present LESS Surgery in gynaecology includes ovarian cyst removal, ovariectomy, salpingectomy and hysterectomy.

Cholecystectomy • Colon resection • Hernia repair • Appendectomy • Diagnostic staging • Nephrectomy • Prostatectomy• Oopherectomy • Hysterectomy • Endometriosis treatment • Adrenalectomy • and more ...

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LESS 2.0

WORKING HAND IN GLOVE – THE UNIQUE OLYMPUS LESS SURGERY SYSTEM

The TriPort was the first access port designed specifically and exclusively for LESS Surgery. In combination with the custom-designed hand instruments and optics it completes the Olympus LESS Surgery system. This way, a flexible single-site access system combines surgical precision with ease of use. Now, with the new TriPort+, the LESS Surgery system has been brought to perfection. The TriPort+ offers a fourth valve, is gas-tight and even easier to set up.

LESS hand instruments
- High shaft stiffness
- Multiple curved-shaft design to prevent instruments from crossing
- HF connector
- Strong grasping
- Proximal curved shaft
- Independent jaw rotation
- Precise operating with real triangulation

LESS – LAPARO-ENDOSCOPIC SINGLE-SITE SURGERY

enables surgeons to perform standard laparoscopic procedures through a single incision. The new TriPort+ is the first of a new generation of LESS ports that has been developed in conjunction with leading surgeons using LESS in their daily routine already now. It is based on the experience with the first generation and designed to make LESS Surgery easier to start with and to enable for smooth procedures.

THE NEW TriPort+ MAKES LESS WORK

Precise surgery with rotatable jaws
4-way angulation for triangulated viewing
Gas-tight
- The new valves provide excellent gas tightness

3+1 port
Standard four-port technique through one incision

Cholecystectomy
The additional port allows for optimized retraction

POTENTIAL BENEFITS OF LESS SURGERY

- Umbilical incision results in better cosmesis.
- Wound complications are reduced to the single access site.
- Postoperative pain may be further minimised.
- Potentially faster recovery.

TriPort+
- 3+1 valve: Improves retraction.
- Gas-tight, “duckbill” valves.
- Easily removable top for specimen extraction.

FOR DETAILED INFORMATION ABOUT LESS SURGERY:
less-surgery.eu
**HiQ LS Hand Instruments**

- **WA68120A** Shaft insert, Johann, 5 x 350 mm, length of jaws: 24 mm
- **WA68130A** Shaft insert, Clinching, 5 x 350 mm, length of jaws: 26 mm
- **WA68140A** Shaft insert, Maryland, 5 x 350 mm, length of jaws: 17 mm
- **WA68150A** Shaft insert, Maryland fine, 5 x 350 mm, length of jaws: 19 mm
- **WA68160A** Shaft insert, Maryland 90°, 5 x 350 mm, length of jaws: 18 mm
- **WA68170A** Shaft insert, Metzenbaum, 5 x 350 mm, length of jaws: 19 mm
- **WA68180A** Shaft insert, multi-purpose, 5 x 470 mm, length of jaws: 26 mm

**EndoEYE LTF-VP**

- **N2119760** Video telescope “LTF-VP”, 5.4 mm, deflectable tip

**Technical Data**

- **Optical system**
  - Field of view: 80°
  - Direction of view: 0° (forward viewing)
  - Depth of field: 18–100 mm

- **Insertion portion**
  - Distal end outer diameter: 5.4 mm
  - Rigid portion outer diameter: 5.3 mm

- **Working length**: 370 mm

- **Bending section**
  - Angulation range: Up 100°, Down 100°, Right 100°, Left 100°

- **Total length**: 360 cm

**EndoEYE LS**

- **WA50024B PAL**
- **WA50025B NTSC**

**Video telescope “EndoEYE LS”**, 5.4 mm, 318 mm working length, auto-lavable, 30° direction of view,

**Technical Data**

- **Working length**: 318 mm
- **Outer diameter**: 5.4 mm
- **Bending section**
  - Maximum bending angle: 70°
  - Connecting cable length: 296 cm
- **Protection class**
  - according to IEC 60601-1: CF

**Delivery includes:**

- Video telescope
- Instrument tray

**HiQ LS Handles**

- **WA68100A** Handle “HiQ LS”, deactivatable ratchet
- **WA68105A** Handle “HiQ LS”, monopolar
- **A0400** Sealing cap, blue, for Luer-Lock, 6 pcs.

**Access Devices**

**Trocar “TriPort”,**

- **Sterile, single-use**
- **WA58010T** 1 pc.
- **WA58050T** 5 pcs.

- **2 insufflation/venting ports, 3 valves 5 mm Ø, 1 valve 10 mm Ø**
- **Requires a 12–25 mm incision.**

**Trocar “TriPort15”,**

- **Sterile, single-use**
- **WA58015T** 1 pc.
- **WA58055T** 5 pcs.

- **2 insufflation/venting ports, 2 valves 5 mm Ø, 1 valve 15 mm Ø**
- **Requires a 12–25 mm incision.**

**Trocar “QuadPort”,**

- **Sterile, single-use**
- **WA58010Q** 1 pc.
- **WA58030Q** 3 pcs.

- **2 insufflation/venting ports, 1 valve 5 mm Ø, 1 valve 15 mm Ø**
- **Requires a 20–60 mm incision.**

All valves have a reducer to allow use of 5 mm instruments.

Specifications, designs and accessories are subject to change without any notice or obligation on the part of the manufacturer.

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