TCRis 2.0
TransCervical Resection in Saline
TCRis: THE FUTURE IN GYNAECOLOGY
ONE COMPLETE SYSTEM FOR ALL YOUR NEEDS IN HYSTEROSCOPY

TAKE YOUR TCRis TO THE NEXT LEVEL

• Work more efficiently with continuous plasma activation

• Work faster with the large loop due to bigger size and improved ignition

• Apply the optimal amount of energy. Controlled, precise and quick cutting

• Consolidate your fleet of HF units – the ESG-400 does it all

• Maximize patient safety with the new HysteroFlow II / HysteroBalance II pump and balancing system for reliable fluid control

• Work with the best picture possible with the next generation of HD imaging Visera Elite and the dedicated ultra light-weight camera head

Vaporisation
Electrode
No tissue chips for better vision, time saving and increased patient comfort

Large Loop Electrode
For efficient and safe resection

OES PRO Resectoscope
Ergonomic for less fatigue

Optimum Energy Output
Easy-to-use generator with plug and play for TCRis

Accurate Fluid Management
Maximum patient safety by reliable fluid control

Image Quality Standard
Latest generation of brilliant HD picture

Camera Head
Ultra light-weight for less fatigue with NBI option
SPECIALISTS ABOUT THERAPEUTIC HYSTEROSCOPY
ONE COMPLETE SYSTEM FOR ALL YOUR NEEDS IN HYSTEROSCOPY

“...I have experience in working with the Olympus TCRis system for many years. The excellent view and reliable and sufficient flow during the procedure are special characteristics and with the variety of electrodes all therapeutic hysteroscopic procedures can be performed...”

Prof. Olav Istre
Aleris-Hamlet Hospital
Copenhagen, Denmark

ENDOMETRIAL ABLATION

In contrast to conventional monopolar resection in glycine or sorbitol, which is associated with the known risk of Hyponatraemia, also known as the TUR-syndrome, the introduction of saline solution has contributed to make hystero-resection safer for the patient. Abnormal uterine bleeding can be caused by an unusual thickening of the endometrial lining, polyps or fibroids. The TCRis loop is used to remove the increased endometrial and fibroid tissue by enabling a smooth and fast cut combined with the safety benefits of using saline during the procedure. Alternatively endometrial ablation or coagulation in the cornual areas can be performed using the TCRis vaporization electrode, avoiding the need to remove tissue fragments. As the tissue is vaporized and coagulation is provided at the same time, this may prevent significant blood loss as well. Due to the fact that the generation of tissue fragments is avoided, visibility during the procedure is enhanced.
**SEE AND TREAT AT ITS BEST**

**STATE-OF-THE-ART HD IMAGE QUALITY AND RESECTION IN SALINE AS NEVER SEEN IN ANY OPERATING ROOM**

**THE FUTURE IN HF APPLICATIONS**

**EXPLORE THE RANGE OF ELECTRODES**

Dedicated electrodes offer a variety of treatment options in gynaecology:
- Vaporisation electrode for vaporising myomas, the endometrium and coagulation in the cornual area
- Variety of loop sizes for resecting polyps, myomas and the endometrium
- Rollerball for providing coagulation of endometrium and in cornual areas
- Needle electrode for septum removal
- 45° electrode for easier resection of endometrium in cornual areas or for polyps

**LATEST HD IMAGING AND NBI FUNCTION**

Visera Elite – Superior Imaging and Surgeon Comfort
HD image quality never seen before in any operating room.
- 3D noise reduction is a new system particularly suited for movie images. It detects the exact noise by comparing it with the last frame, thus obtaining a much higher image resolution than previous types.
- The Visera Elite Imaging Platform serves as a hub to connect rigid and flexible scopes across multiple specialities – standardizing training, reprocessing and service to achieve OR efficiencies.

Narrow Band Imaging is a proprietary optical image enhancement technology that is only available on Olympus products. NBI enhances the visualization of vessels and other tissues on the mucosal surface and is 20% brighter compared to the previous model. This can facilitate for example the assessment in endometrial cancer and endometriosis.
ESG-400

THE ESG-400 IS EASY TO USE AND OFFERS EXCELLENT PERFORMANCE WITH MAXIMUM PATIENT SAFETY

CONSOLIDATE YOUR FLEET OF HF GENERATORS – THE ESG-400 DOES IT ALL

The new ESG-400 supports you in gynaecology with an intuitive touchscreen, specialized modes and high performance with tissue-adaptive power output.

FEATURES AND BENEFITS

- Full range of monopolar and bipolar modes
  - Perform open, laparoscopic and endoscopic surgery procedures
  - Tissue-adaptive power output
  - Apply the optimal amount of energy
  - Controlled, precise and quick cutting
- Quick memory function
  - Find your preferred settings easily
  - New saline modes (for bipolar resection)
  - Improved ignition performance
  - Continuous vaporization
  - Make sure that you are using the right fluid

SOCKETS

- BIPOLAR
  For bipolar HF cables (instruments, e.g. HiQ+ Bipolar hand instrument)
- MONOPOLAR 1
  For monopolar HF cables (instruments, e.g. resectoscope, hand instrument or pencil device)
- MONOPOLAR 2
  For monopolar HF cables (instruments, e.g. resectoscope, hand instrument or pencil device)
- UNIVERSAL – Plug & Play
  For TCRis Saline cable including instrument recognition and presetting of output mode

TOUCHSCREEN

- Select
  Touch relevant quadrant to change settings
- Change Power level:
- Effect:
- Change Mode:
  Touch relevant area to change mode

PUSH

- Select
  Previously saved procedure settings
- Footswitch
  Assign single or double footswitch or activate AutoStart
- Menu
  Save / delete procedure settings, choose language, etc.
**MAIN FEATURES**

Accurate fluid loss measurement aids to increase the safety during hysteroresection to avoid excessive absorption of the distension medium into the body of the patient. The Olympus HysteroFlow II and Hysterobalance II system provides accurate and easy measurement of fluid loss and intrauterine pressure in a closed system.

**USER FRIENDLINESS**
- Easy system set up
- Touchscreen text based menu
- Easy bag and container change during procedure

**VERSATILITY**
- Robust system trolley with universal container fixation and separate balance
- Disposable and reusable tubing

**PATIENT SAFETY**
- Clear text menu
- Accurate pressure monitoring and multiple alarms
- DEHP-free disposable tubing

**HYSTEROFLOW II PUMP**
- Fast and accurate pressure control
- Automatic instrument recognition for optimum flow characteristics
- Large numeric and symbolic display of intrauterine pressure
- Visual and acoustic overpressure and perforation alarm
- Disposable tubings in DEHP-free material

**HYSTEROBALANCE II MEASURING UNIT AND SYSTEM TROLLEY**
- Large numeric and symbolic display of current fluid loss
- Visual and acoustic alarm when fluid loss limit is reached
- Exact measurement of in- and outflow from two separate weighing cells
- Compatible with vast array of containers and fluid bags without additional adapters

**HOES PRO RESECTOSCOPE FOR HYSTERORESECTION**
HysteroFlow II/Hysterobalance II and OES Pro Resectoscope for TCRIs (TransCervical Resection in saline) or for monopolar resection: the perfect integrated solution for hysteroresection
ESG-400

WB91051W  HF unit “ESG-400”, 100–120 V / 220–240 V

TCRis Resection Sheaths

A42011A  Inner sheath, for 8.5 mm outer sheath, ABS, incl. standard obturator
A42021A  Outer sheath, 8.5 mm, 2 stopcocks, rotatable

TCRis Working Elements

WA22366A  Working element, active
WA22367A  Working element, passive

TCRis HF-Resection Electrodes

WA22301D  12°, small
WA22302D  12°, medium
WA22503D  12°, large
WA22305D  30°, small
WA22306D  30°, medium
WA22507D  30°, large

Camera Head

N3499640  Camera head, HDTV 1080, NBI, L-shape, with three inline cord switches for remote control, with integrated video adapter (clamping connector), “OTV-S7ProH-HD-L08E”, 0.8x

Telescopes

A22001A  Telescope, 4 mm, 12° direction of view, autoclavable
A22002A  Telescope, 4 mm, 30° direction of view, autoclavable

HysteroFlow II

WA40620A  Pump “HysteroFlow II”, 100–240 V

Delivery includes: HysteroFlow II pump, mains power connection cable

HysteroBalance II

WA40622A  Balancing system “HysteroBalance II”

TCRis Resection Sheaths

A42011A  Inner sheath, for 8.5 mm outer sheath, ABS, incl. standard obturator
A42021A  Outer sheath, 8.5 mm, 2 stopcocks, rotatable

TCRis Working Elements

WA22366A  Working element, active
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TCRis HF-Resection Electrodes

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Accessories

For Visera ELITE Video System

OTV S190  Processor
CLV S190  Light source

For Telescopes

A22001A  Telescope, 4 mm, 12° direction of view, autoclavable
A22002A  Telescope, 4 mm, 30° direction of view, autoclavable

For a complete listing of sales and distribution locations visit: www.olympus.com