

preciseSECT mode and HybridKnife®

Intelligent submucosal dissection
in ESD and POEM

The intelligent solution to submucosal dissection

The dynamic adjustment of the current curve makes the preciseSECT mode ideal for precise submucosal dissection and pronounced hemostasis with little thermal damage.

CLINICAL ADVANTAGES OF THE preciseSECT MODE AT A GLANCE

- **Pronounced hemostasis with low thermal lateral damage:** preciseSECT responds very quickly and precisely to different tissue impedances by dynamically adjusting the current curve (Relevant for assessing resection margins in ESD)
- **Selective dissection** (layers adjacent to the submucosa, such as mucosa in anterior POEM, are spared)

- **Fewer instrument changes during submucosal Dissection:** emphasis on hemostatic or dissecting properties due to the contact area between instrument and tissue



Shaimaa Elkholy, MD
Lecturer for internal medicine & hepato-gastroenterology at Cairo university hospital, Kasr Al-Ainy Faculty of medicine, Cairo, Egypt

APPLICATION OF THE preciseSECT MODE IN SUBMUCOSAL DISSECTION IN ESD/POEM

For submucosal dissection:

- Important here is the high impedance given by a small contact surface (the instrument tip of the HybridKnife® I-type). This enhances the dissecting effect
- Regular injection of the target tissue has a supportive effect and is therefore recommended
- Excess fluid should be aspirated to avoid compromising the tissue effect



For the coagulation of blood vessels during submucosal dissection

Conversely, an effective coagulation effect can be achieved through lower impedance with the preciseSECT mode. This sealing of the vessel is achieved by applying the instrument tip to blood vessels in a more planar manner (large contact surface). This application to the vessel should be performed without any mechanical pressure with a continuous activation of 1–2 seconds (no “tapping”). The coagulated vessel can then be dissected using the preciseSECT mode.

Dr. Torsten Beyna
Head of Department of GI and interventional endoscopy
EVK Duesseldorf, Germany

STEP-BY-STEP GUIDE FOR THE APPLICATION OF THE preciseSECT MODE IN SUBMUCOSAL DISSECTION IN ESD/POEM



POEM with HybridKnife® using preciseSECT mode

Step by step descriptions on dissection and coagulation of blood vessels during submucosal tunneling



*Broad contact
– low impedance –
rather coagulative*

COAGULATIVE



*Only tip contact
– high impedance –
rather dissective*

DISSECTIVE

CONTACT SURFACE BETWEEN ELECTRODE & TISSUE



Testimonials

This is what users have to say about the preciseSECT mode in submucosal dissection during ESD / POEM



POEM using VIO® 3
preciseSECT mode with
HybridKnife®

Quick dissection and hemostasis
in submucosal tunneling

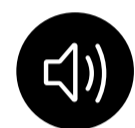


PROF. HONGGANG YU



For submucosal dissection in particularly well perfused areas, for example gastric ESDs, I use preciseSECT because it provides excellent hemostasis while dissecting precisely. Larger vessels, I would usually use a Coagrasper for, are reliably coagulated. This extends the utility of ESD-knives. Quick dissection can be done by sweeping over the submucosa layer with the instrument and a continuous activation. The degree of lateral thermal spread and carbonization is minimal. This also applies for POEM-procedures.

*Prof. Honggang Yu,
Endoscopy department, Renmin Hospital of Wuhan University, Wuhan, China*



PROF. MAURO MANNO



preciseSECT-mode in combination with HK I-type has a distinct behavior. It allows delicate control of dissection direction and the hemostatic capability in case of bleedings is good. Its capability of dissecting non-conductive fatty tissue (perivalvular submucosal yellowish fat) as well as submucosal fibers by adapting modulation – a distinguishing feature of preciseSECT – is clearly visible and very much appreciated in my daily practice.

*Prof. Mauro Manno,
Gastroenterology and Digestive Endoscopy Unit,
Azienda USL Modena, Carpi, Italy*



Rectal ESD procedure using
VIO® 3 preciseSECT mode with
HybridKnife®



PROF. KAREL CACA



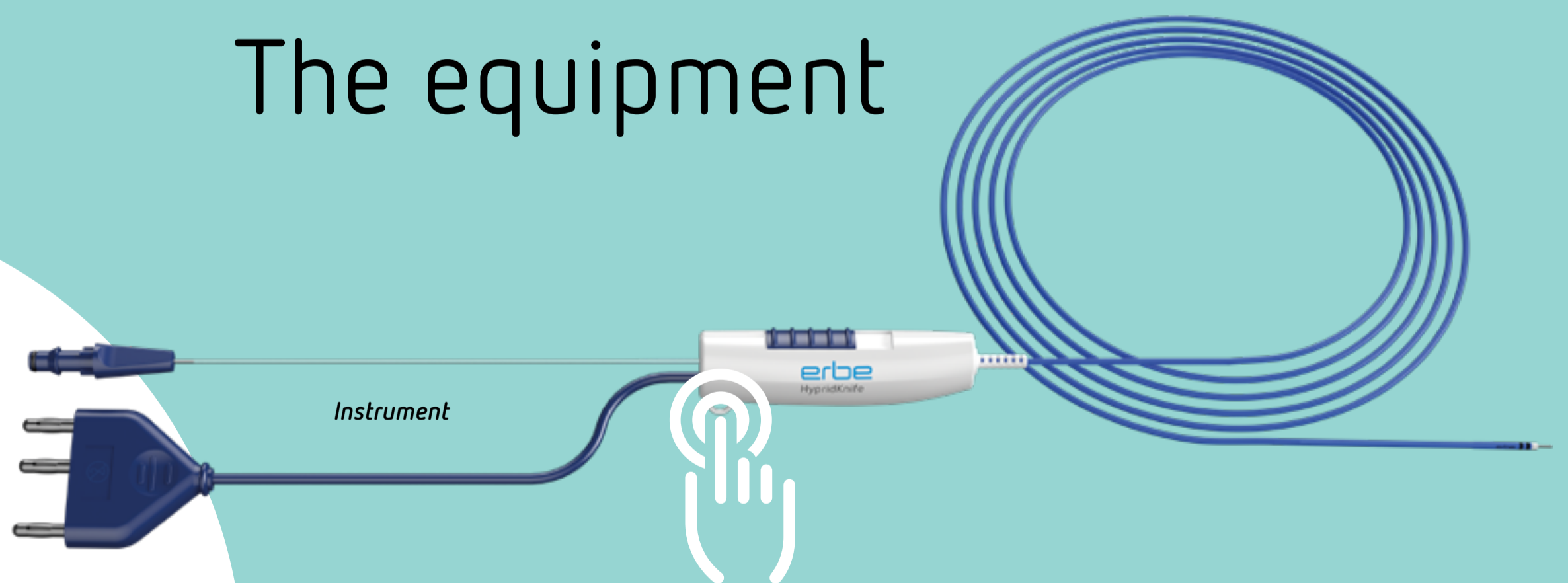
preciseSECT is a huge improvement for me, as it allows me to perform ESD of larger lesions without any significant bleeding. This enables large lesions to be resected in a completely blood-dry environment. Having to use a Coagrasper is the absolute exception, as preciseSECT has such a fantastic hemostatic component. For me, this is a major advance in ESD, but also in POEM.

Prof. Karel Caca, Medical Director, Klinikum Ludwigsburg, Germany

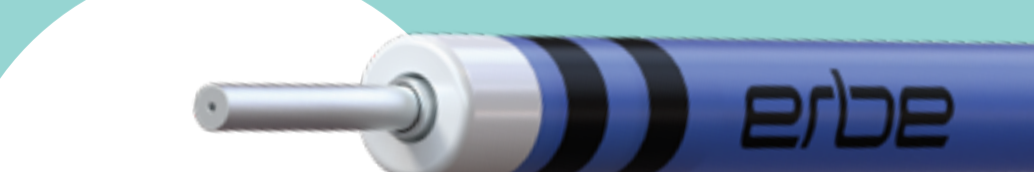
The equipment



Gastroenterology workstation:
VIO® 3, Electrosurgery
APC 3, Plasmasurgery
ERBEJET® 2, Hydrosurgery
EIP 2, Endoscopic irrigation pump



Instrument



Tip of the instrument
HybridKnife®, I Type, I-Jet,
ø 2.3 mm, length 1.9 m
No. 20150-061



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