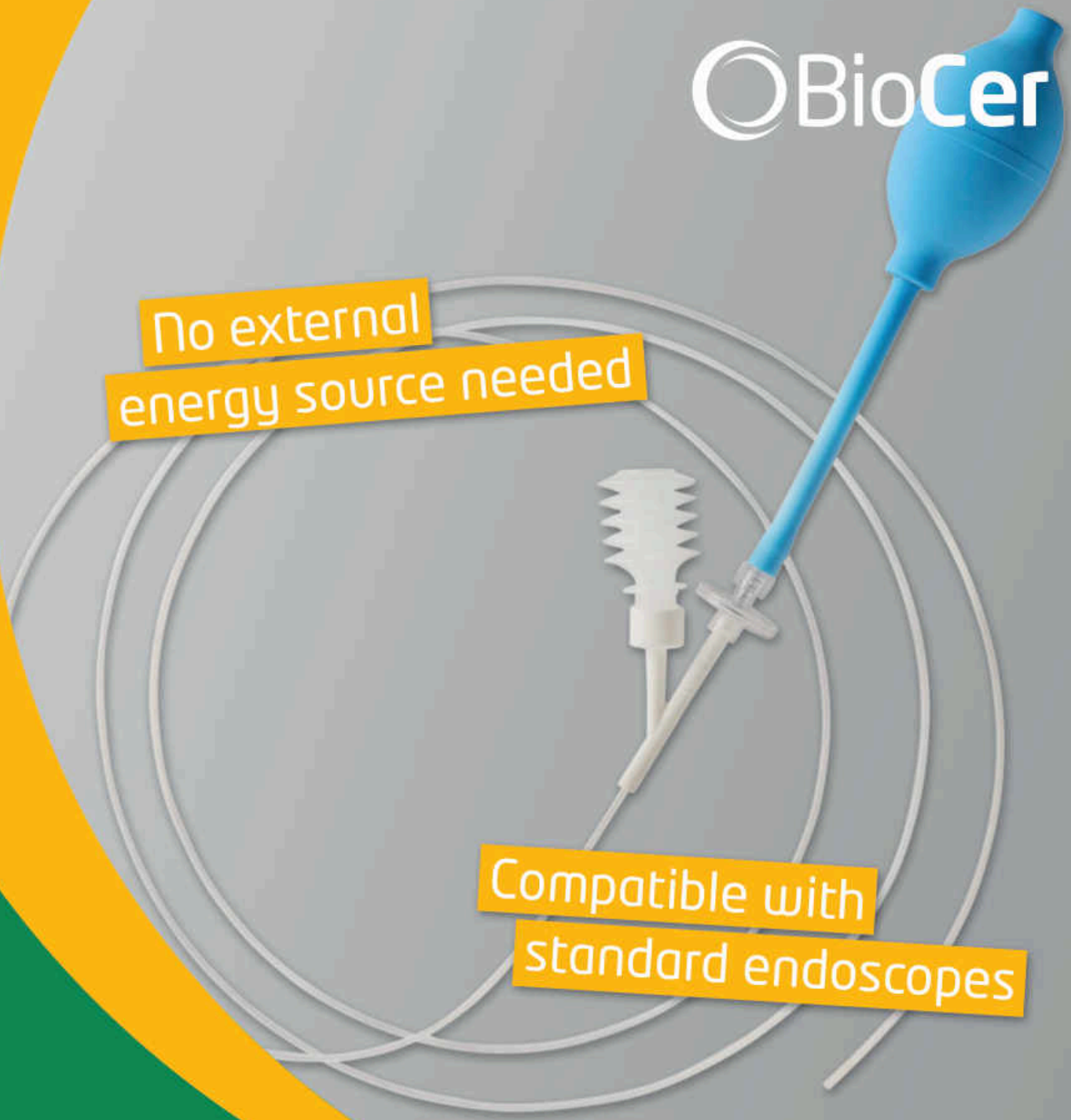
BioCer



HaemoCer™
Endoscopic Applicator

MADE IN GERMANY

Haemostasis during endoscopic procedures

Gastrointestinal Bleedings

Gastrointestinal bleedings are one of the main indications for gastrointestinal endoscopies. Bleeding treatment is a challenge depending on the location and severity.

In conventional haemostasis, thermal procedure (argon plasma coagulations), mechanical procedure (clips, band ligatures) and also injection with epinephrin or tissue adhesives are used.

Newer procedures rely on haemostatic powders to stop bleedings. Thereby it is well known in medicine, that haemostatic devices are used in endoscopic procedures in combination with an applicator.



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Key Facts

- Bleeding control during endoscopic procedures
- Direct and precise application to the bleeding site
- Usable instrument channel: 2.8 mm and above

Fields of Application

Primary bleeding:
- Peptic ulcers
- Mallory-Weiss syndrome
- Tumours
- Haemorrhagic esophagitis

Post-interventional:
- Polypectomy
- ESD
- EMR
- Biopsy

Endoscopic Applicator

HaemoCer Endoscopic Applicator is used to apply HaemoCer PLUS for the treatment of upper and lower gastrointestinal bleedings. The applicator has a tube length of 2400 mm, an outer tube diameter of 2.5 mm and a pump ball as a pneumatic source. Additionally, it has a built-in HEPA (High Efficiency Particulate Air) filter for filtering ambient air.

Bibliography

- Abid MA, Mirbagheri S, Mumtaz M, Ahmad M, Rathore AW. Topical hemostatic agents in the management of upper gastrointestinal bleeding: a meta-analysis. Endosc Int Open. 2021 Apr 26;9(5):E686-E695.
- Gralnek IM, Camus M, et al., Endoscopic diagnosis and management of nonvariceal upper gastrointestinal hemorrhage (NVUGIH): European Society of Gastrointestinal Endoscopy (ESGE) Guideline – Update 2021

Safe and effective haemostasis

The HaemoCer Endoscopic Applicator enables the application of HaemoCer PLUS resorbable powder directly through the working channel of a standard endoscope.

The application catheter is inserted through the instrument channel and positioned to the bleeding. The air flow generated by the pump ball transports the powder directly to the bleeding site.

HaemoCer Endoscopic system is suitable to control bleedings in the upper and lower gastrointestinal tract with a severity of Forrest Ib and below. It is especially suitable for seeping haemorrhage, but also in cases where conventional haemostasis can not be used.

Ease of use, without a external energy source

The applicator does not require any additional devices such as air compressors or gas cartridges and enables a quick and easy use.

HaemoCer PLUS haemostatic powder consists of hygroscopic particles that rapidly absorb water from the blood and hence initiate a dehydration process. In contact to liquid, the haemostatic powder immediately forms a gel matrix. An endoscopic procedure is performed in a moist environment and contact with the HaemoCer PLUS haemostatic powder in the endoscope has to be avoided. To avoid occlusions during the preparation of the HaemoCer Endoscopic Applicator, please follow the step-by-step instructions (see next page).

Preparation and application



Connect the pump ball to the Luer Lock connection at the filter end of the applicator.



Use your thumb to close the attachment on the Y-Piece.



While the applicator is being inserted, the pump ball should be used repeatedly.



Once the applicator is positioned, keep pumping the pump ball 8-10 times quickly and firmly while still holding the Y-Piece closed with the thumb.



Bring the applicator in an upright position, so that the opening of the bellows bottle faces upwards when it is screwed on.



Turn the applicator by 180° and begin administering the powder by pumping the pump ball several times.



HaemoCer™ PLUS HaemoCer PLUS is a resorbable plant based haemostatic powder containing no animal or human components.

Fields of Application

The effectiveness of HaemoCer PLUS has already been proven in many surgical disciplines:

- Cardiac, Vascular and Thoracic Surgery
- General Surgery
- Transplant Surgery
- Traumatology
- Tumour Surgery
- Oral und Maxillofacial Surgery
- ENT Surgery
- Urology/Gynaecology
- Orthopaedics
- Burn Surgery
- Neurosurgery

Haemostatic Powder

Haemostasis occurs by rapidly accelerating the normal physiologic clotting cascade without participation of chemical or pharmaceutical ingredients.

Once in contact with blood, HaemoCer PLUS enhances the natural clotting cascade by rapidly dehydrating the blood and accelerating the concentration of platelets, red blood cells and coagulation proteins at the bleeding site. The second mode of action of HaemoCer PLUS is the formation of a robust gelled matrix that adheres to the bleeding site and forms a mechanical barrier to prevent further bleeding.

HaemoCer PLUS is resorbed by amylase within a few days without leaving any residues, depending on the amount of used material and the place of application.

Key Facts

No human or animal-based components
- No known side effects like foreign body reactions
- Minor documentation requirements

High hygroscopicity
- Rapid haemostasis
- Solid gel matrix

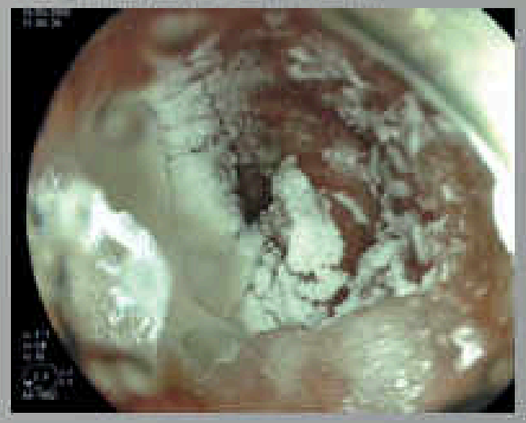
100% biodegradable
- Fully absorbed within a few days
- No residues

Off-the-shelf deployment
- Storage at room temperature, no lead time for defrosting etc.
- Easy preparation of application unit
- Simple, intuitive application

Good cost-effectiveness profile
- Cost effective in comparison to other haemostats
- Reduced need for transfusions and substitution of blood components
- Reduced bleeding-related follow-up costs like longer hospital stay or critical care days



+ Locally advanced gastric cancer



+ Large duodenal ulcer (Forrest IB)

Product Overview



HaemoCer™ Endoscopic SET		
HFS323	HaemoCer PLUS, 3g + Endoscopic Applicator	1 Set/Box

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