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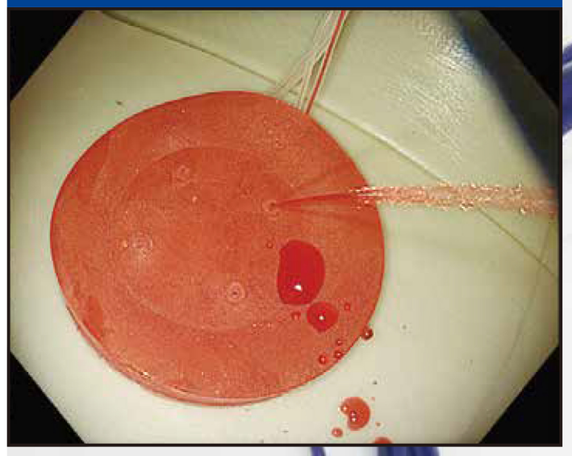
Medical Rising STAR

Simulator Training model for Advanced high Risk endoscopic therapy

Simulator training model for endoscopic therapy



A simulator that can reproduce pulsatile bleeding and improve the technical aspects of open endoscopic therapy

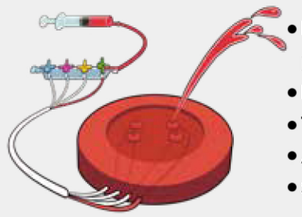
Background

Among gastrointestinal bleeding, particularly in cases of profuse bleeding, it is life-threatening. Therefore, there is a need to improve the skills of hemostatic techniques. However, there was no medical training model available that could replicate bleeding.

Development Concepts

- Enables learning of endoscopic therapy using actual endoscopes and devices.
- Provides medical training opportunities for beginners to experts.
- Constructed with specific soft resin that can be stored for long periods.

Features



- Reproduces realistic tactile sensations of the procedural area with proprietary specific soft resin.
- Reproduces pulsatile bleeding (Forrest Ia) through syringe manipulation.
- Technical levels can be adjusted by changing the attachment positions.
- Allows practice with four blood vessels per ulcer.
- Selective bleeding can be controlled by a three-way stopcock.

Ulcer model for clips

Resembling the human gastrointestinal mucosa in elasticity and color tone

Grasping the ulcer with a hemostatic clip

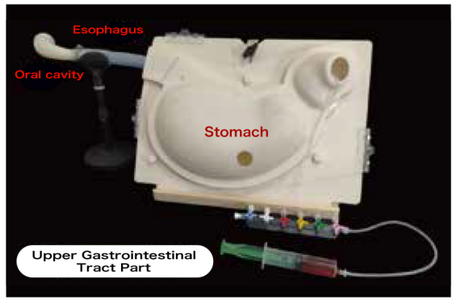
Ulcer model for coagulation grasper

Compatible with integrated bipolar plates for coagulation

Grasping the ulcer and coagulating with a coagulation grasper

Simple setup

- Place the ulcer model inside the upper gastrointestinal tract part and connect the blood vessels to the three-way stopcock for a complete setup.
- The setup can be easily done, making it ideal for remote guidance.



- By providing lumens from the oral cavity to the treatment site, the entire operation process can be learned.
- The simulator can be easily disassembled for washing, and the lumen part can be repeatedly used.

Retrospective larning

The ulcer model can be peeled off from the upper gastrointestinal tract part after the practice to confirm the clip positions and application of the coagulation grasper, facilitating the understandings of aquisition levels.

Specification Document

Model	Ulcer Model for Clips	Ulcer Model for Coagulation Grasper	Upper Gastrointestinal Tract Part
Size	Model Body ϕ5.0 cm	Model Body ϕ5.0 cm	Overall Set Approx. W70 X D20 X H28 cm
Weight	16 g	50 g	3.2 kg
Material	Special Soft Resin	Special Soft Resin	ABS Resin
Components	● Model Body x 1 (Integrated Artificial Vessels) ※4 operational points per model	● Model Body x 1 (Integrated Artificial Vessels) (Compatible with Erbe [VIO] and Olympus [ESG] electrosurgical units※) ※4 operational points per model ＊Please refer to the operating instructions of each electric scalpel for the power mode and effect settings	● Upper Gastrointestinal Tract Part Body ・Model Body x 1 ・Clips x 3 ● Upper Gastrointestinal Tract Part Body ・Base x 1 ・Base Components x 1 ・Base Fixing Screw x 1 ・Model Fixing Screw x 1 ● Pharyngoesophageal Part ・Model Body x 1 ・Holder x 1 ● Three-way Stopcock x 1 ● Other Accessories ・Light Shielding Sheet x 1

Development story & Assembly vedio

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