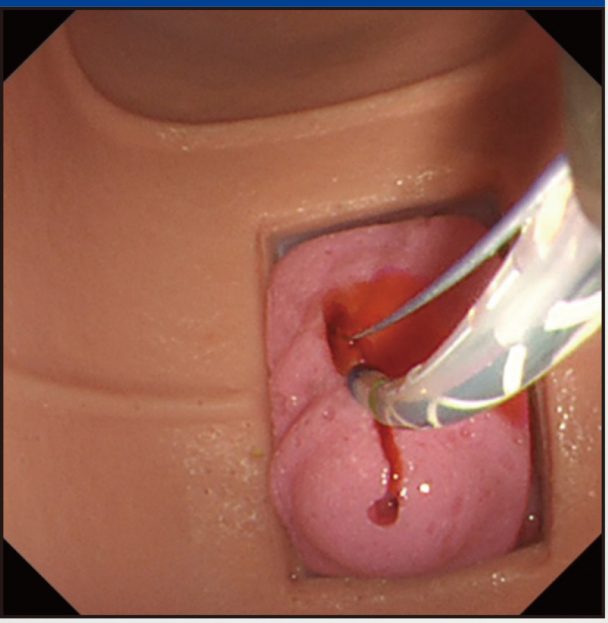
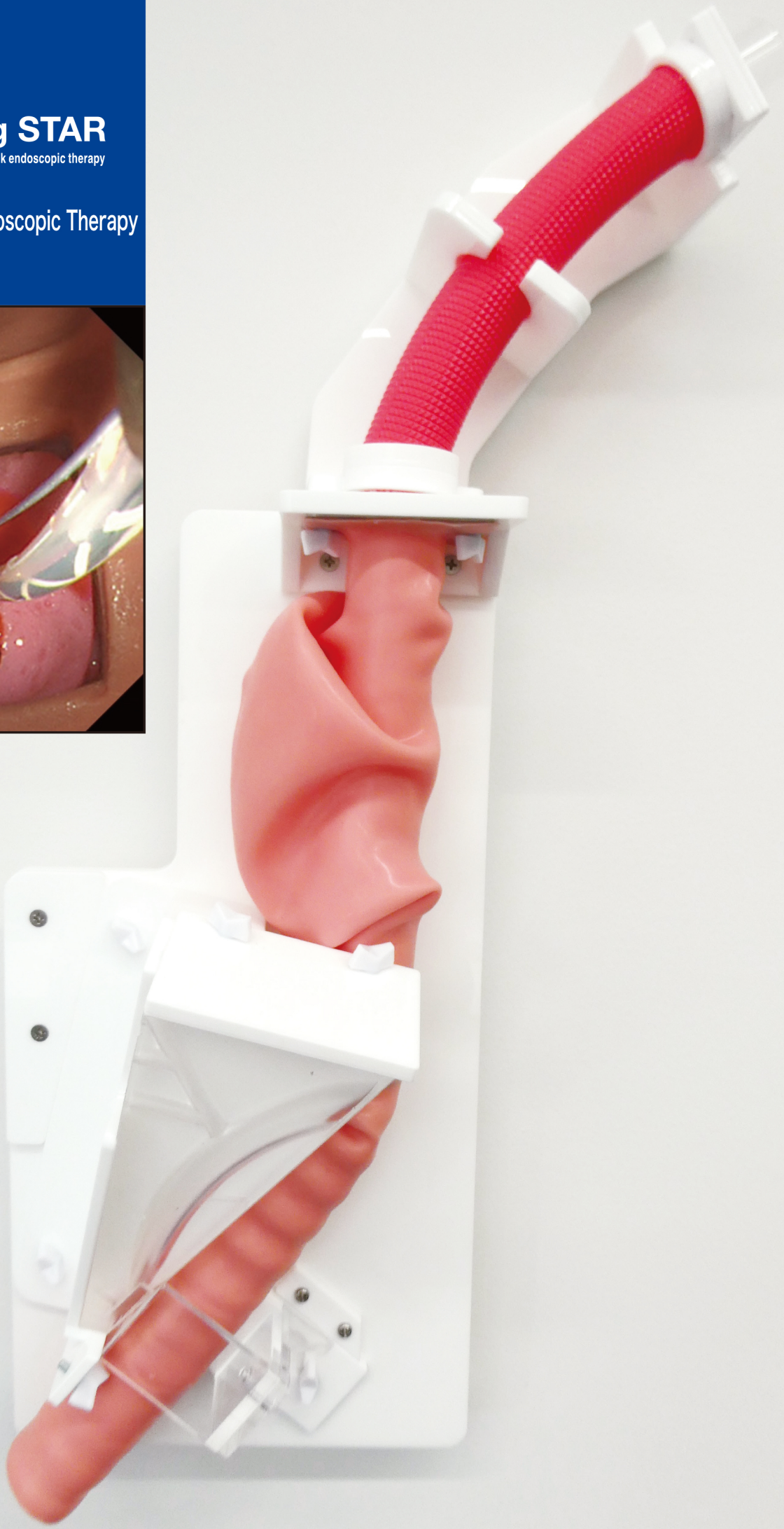
Denka

Medical Rising STAR

Simulator Training model for Advanced high Risk endoscopic therapy

Medical Simulator for Endoscopic Therapy
ERCP/EST Model





A simulator designed to improve ERCP-related procedural skills by replicating realistic manipulation and post-EST bleeding.

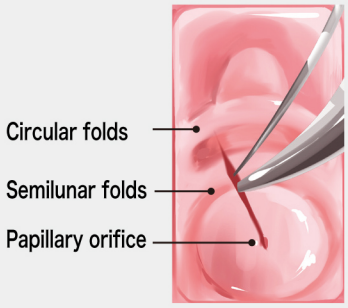
Background of Development

ERCP/EST procedures pose a risk of bleeding complications due to inappropriate incision, but no dry simulator capable of reproducing bleeding existed.

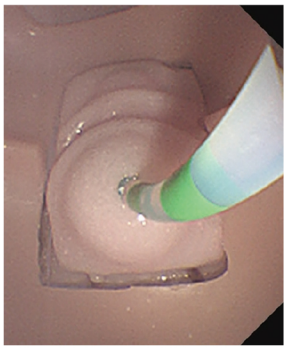
Development Concept

- Enables the learning of endoscopic procedures using actual endoscopes and devices.
- Simulates the duodenal papilla with elasticity like human tissue.
- Enables the learning of the correct incision direction for EST.
- Arterial bleeding can be reproduced through syringe manipulation.

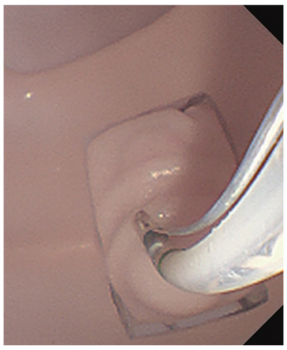
Features



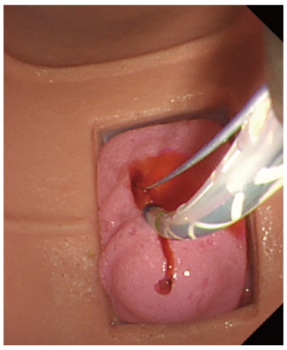
- Anatomically reproduces the blood vessel placement and bile duct trajectory.
- Bleeding complications occur due to incisions outside the 11-12 o'clock direction or excessive incisions.
- Enables comprehensive learning of bile duct cannulation, EST, and bile duct stone removal.



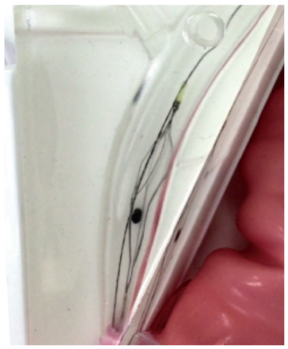
Bile duct cannulation



EST



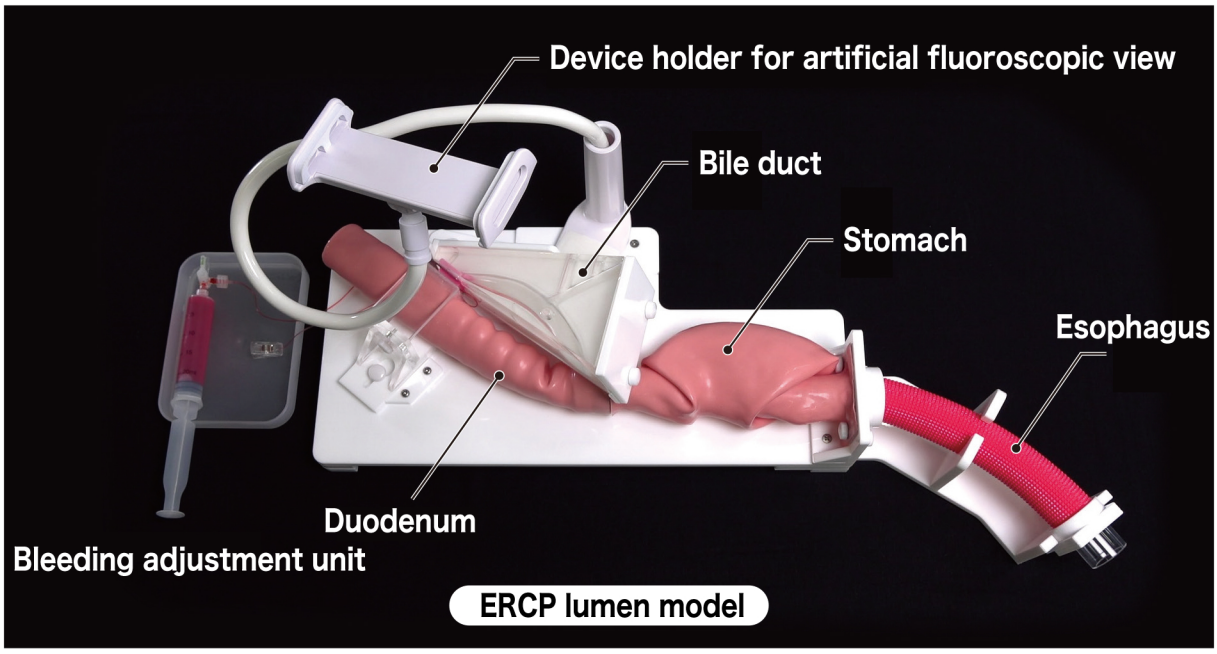
Reproduction of bleeding complications



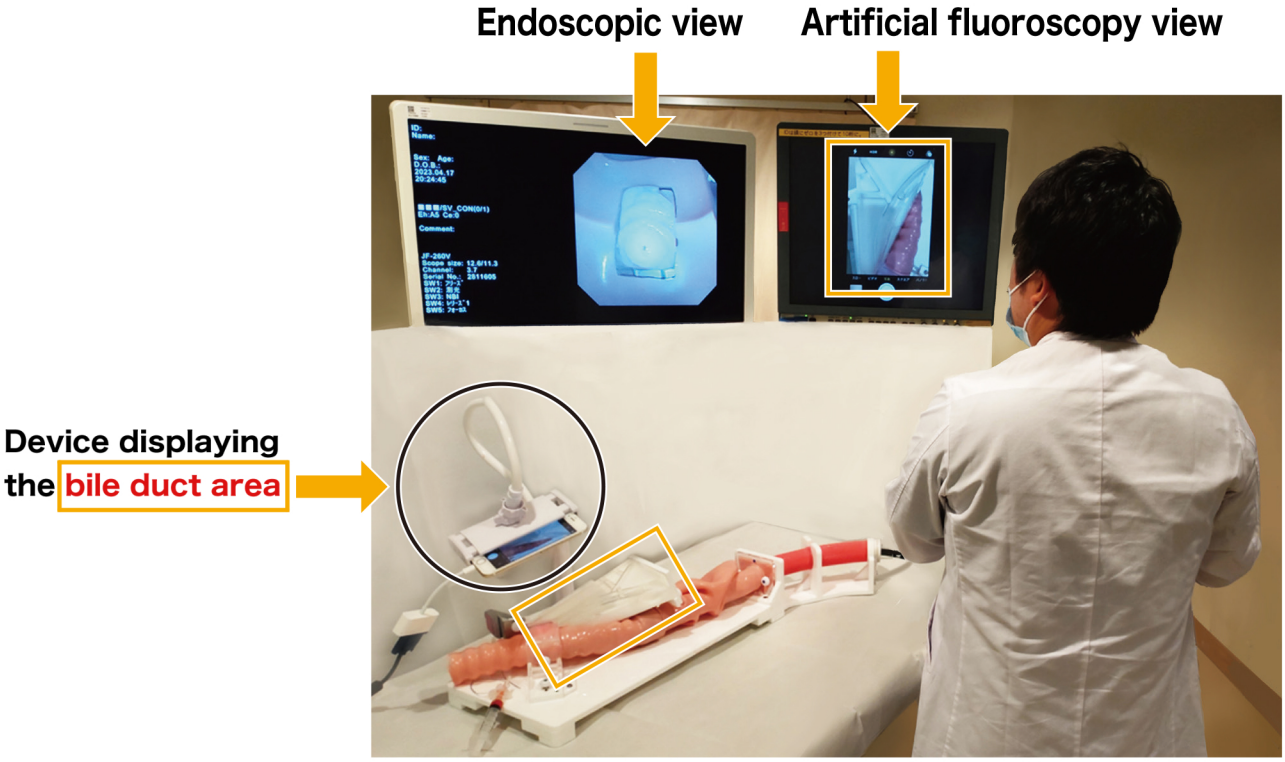
Bile duct stone removal

High Reproducibility and Simple Setup

- Attaching the artificial papilla to the ERCP lumen model for a complete setup.
- The ERCP lumen model can be easily disassembled for washing and reused repeatedly.
- The setup can be easily reproduced, making it ideal for remote guidance.



Simultaneous display of endoscopic and artificial fluoroscopic views provides a clinical-like training environment



Specifications

Model	Artificial Papilla with Blood Vessels	ERCP Lumen Model
Size	W2.7×H2.9cm	W61.5×D29×H14cm
Weight	10 g	2.1 kg
Material	Hydrogel	Acrylic, silicone
Components	Model body 5 pieces per set	• Model (1 of each) Esophagus Stomach Duodenum Bile duct Base • Bleeding adjustment units 3-way stopcock Syringe Clips Red food coloring • Electrosurgical unit accessories Return electrode ×1 • Other accessories

Assembly Video

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