



# Hands-On Training Procedures

Find the session of your interest before you register:

## UPPER GASTROINTESTINAL ENDOSCOPY (GASTROSCOPY) USING MIKOTO SIMULATOR

### WHAT IT'S ABOUT

- Handling (insertion, advancement) of the scope in the upper GI
- Intubation of the esophagus, stomach and duodenum
- Precise observation of anatomical landmarks
- Scope inversion in stomach

### YOU SHOULD HAVE EXPERIENCE WITH

- Knowledge of anatomy of the upper GI
- Indications of UGI endoscopy
- Basic technical knowledge of the endoscope system

## LOWER GASTROINTESTINAL ENDOSCOPY (COLONOSCOPY) USING MIKOTO SIMULATOR

### WHAT IT'S ABOUT

- Handling (insertion, advancement) of the scope in the colorectum
- Intubation of the rectum, sigmoid and proximal colon
- Intubation of terminal ileum
- Polyp detection

### YOU SHOULD HAVE EXPERIENCE WITH

- Knowledge of anatomy of the lower GI
- Indications of LGI endoscopy
- Basic technical knowledge of the endoscope system

## POLYPECTOMY/EMR

### WHAT IT'S ABOUT

- Techniques to remove polyps
- Positioning of the polyp
- Use of cold and hot polypectomy snares
- Use of cold and hot biopsy forceps
- Electrocautery and snare designs
- Use of pre-snare injections and endoloops
- Lifting techniques and non-lifting sign
- Tissue retrieval techniques
- Prevention and managing complications

### YOU SHOULD HAVE EXPERIENCE WITH

- Insertion and advancement of front-viewing scope
- Use of scope tip control and torque technique
- Lumen identification

## HAEMOSTASIS

### WHAT IT'S ABOUT

- Injection therapy
- Mechanical hemostasis (clipping, ligation, endoloops)
- Thermo coagulation
- Argon plasma coagulation

### YOU SHOULD HAVE EXPERIENCE WITH

- Insertion and advancement of front-viewing scope
- Use of scope tip control and torque technique
- Lumen identification

## EUS

### WHAT IT'S ABOUT

- EUS machine operation and set-up, use of tip balloon and luminal water
- Linear EUS of epigastrium and pancreato-biliary system
- Staging luminal cancer and subepithelial lesions
- Extraluminal mass identification

### YOU SHOULD HAVE EXPERIENCE WITH

- Insertion and manipulation of side-viewing scope
- Indications of EUS
- Knowledge of anatomy of epigastrium and the pancreato-biliary system

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## ERCP

### WHAT IT'S ABOUT

- Biliary cannulation
- Sphincterotomy
- Guide-wire accessory exchange
- Stone extraction with Dormia basket and balloon catheter
- Biliary plastic and metal stenting
- Retrieval of stents

### YOU SHOULD HAVE EXPERIENCE WITH

- Insertion and advancement of side-viewing scope
- Use of scope tip control and torque technique
- Use of elevator, Vater papilla identification

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## ESD

### WHAT IT'S ABOUT

- Lesion recognition, delineation/markings
- Knife selection and power unit settings
- Approach to lesion and position changes
- Submucosal injection and dissection
- Complication management (bleeding, perforation)

### YOU SHOULD HAVE EXPERIENCE WITH

- Indications for ESD in the GI tract
- Endoscopic polypectomy and mucosectomy techniques

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## POEM

### WHAT IT'S ABOUT

- Submucosal injection in esophagus
- Mucosal incision
- Submucosal dissection to produce a tunnel
- Myotomy
- Mucosal incision site closure

### YOU SHOULD HAVE EXPERIENCE WITH

- Indications of endoscopic myotomy
- Knowledge of alternative techniques
- Submucosal injection
- Use of knife for submucosal dissection
- Use of endo-clips

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## EUS-FNA

### WHAT IT'S ABOUT

- Subepithelial or extraluminal lesion identification
- Linear echo-endoscope positioning
- Selection of appropriate needle
- Technique of needle puncture
- Techniques of needle aspiration/biopsy
- Sample handling

### YOU SHOULD HAVE EXPERIENCE WITH

- Insertion and advancement of linear EUS scope
- Indications for EUS-FNA/FNB

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## CHOLANGIOSCOPY FOR INDETERMINATE STRICTURES

### WHAT IT'S ABOUT

- Single operation technique and handling of a single use cholangioscope
- Insertion of an ultra-slim endoscope directly into the bile duct for visualization of the biliary mucosa
- Optical identification of biliary strictures
- Biopsy of indeterminate biliary stricture

### YOU SHOULD HAVE EXPERIENCE WITH

- ERCP
- Biliary cannulation techniques
- Intraductal indirect sampling

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## CHOLANGIOSCOPY FOR DIFFICULT STONES

### WHAT IT'S ABOUT

- Single operation technique and handling of a single use cholangioscope
- Insertion of an ultra-slim endoscope directly into the bile duct for visualization of the intraductal stones
- Targeted lithotripsy of CBD stones

### YOU SHOULD HAVE EXPERIENCE WITH

- ERCP
  - Biliary cannulation techniques
  - CBD stone extraction and lithotripsy methods
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## **EUS-GUIDED FLUID COLLECTION DRAINAGE**

### **WHAT IT'S ABOUT**

- Finding of peripancreatic fluid collection (PFC) by EUS
- EUS-guided puncture of the PFC
- EUS-guided transmural placement of double pigtail plastic stent (DPPS) or lumen apposing metal stent (LAMS) for drainage

### **YOU SHOULD HAVE EXPERIENCE WITH**

- Indications of PFC drainage
- EUS-FNA/FNB
- ERCP
- Guide-wire manipulation
- Enteral / biliary stent placement

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## **EUS-GUIDED RADIO-FREQUENCY ABLATION (RFA) TECHNIQUE**

### **WHAT IT'S ABOUT**

- Finding of the pancreatic neoplastic lesion by EUS
- EUS-guided puncture of the lesion
- RFA catheter ablation
- RFA machine operation and set-up

### **YOU SHOULD HAVE EXPERIENCE WITH**

- Indications of EUS-guided ablation
- EUS-FNA/FNB