

Basic and advanced EUS Workshop

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Training Sub-committee ,
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Workshop General Objectives

- participants should be able to:
- List the benefits of EUS;
- Explain the technology and principles of EUS;
- Recognize the indications, limitations and complications of EUS Procedures;
- Understand the role of EUS in diagnosis and staging;
- Identify and interpret EUS anatomy images;
- Produce EUS image with the basic EUS equipment and tools;
- Effectively apply diagnostic EUS in clinical practice

BASIC EUS WORKSHOP

Participant pre-requisite

- for endoscopists who have **no or little experience** with EUS and wish to understand and practice EUS in their clinical practices
 - *(To define endoscopist/endoscopy trainees – with credential by the local professional bodies/training committee)*
 - *Medical degree*
 - ***EUS bigginer***

Course Structure

◆ This workshop comprises of

- Lectures
 - Indication EUS
 - Patient and equipment preparation
 - Normal EUS anatomy
 - Hands-on Model: anatomy
 - Basic EUS-FNA/B
 - Peripancreatic fluid collection
 - Coeliac plexus neurolysis/block
- Hands-on session – models
- Hands-on Session –close observation
- Live demonstration
- Case Discussions

Assessment

- The competency level of participants will be assessed **before and after** the workshop through a combination of knowledge and skill assessments.
- MCQ based on lectures
- Video cases in:
 - Identifying Artefacts
 - Identifying organs
 - Identify common lesions

PART 3 – TOPIC OUTLINE/SCHEDULE

- Day 1
 - Lectures
 - EUS overview
 - Patient preparation
 - EUS anatomy
 - Hands-on Model: anatomy
- Day 2
 - Lecture: Basic EUS-FNA/B
 - Illustrative Case Discussions
 - Hands-on

ADVANCED EUS WORKSHOP

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Advanced EUS Workshop

- for endoscopists who have some experience with EUS
- and wish to gain or improve their skills in EUS and understand the role of EUS in therapeutic interventions.

Faculty member for Advanced EUS

- Be well recognised by their peers as experienced in performing **diagnostic EUS** (with both radial and linear echoendoscopes) and **FNA**
- Have vast experience in performing **sufficient volume and wide spectrum of cases** for a well-rounded training environment

Facilities

- The workshop should be conducted in either a **hospital-based endoscopy unit** or an ambulatory surgery/endoscopy center, with modern EUS equipment including image-recording devices, including but not limited to, **radial and linear echoendoscopes, catheter-based EUS probes** (optional), and EUS needles
- Support team comprising of either **endoscopy** and **cytopathology** and staff with knowledge on proper processing of specimens
- anaesthesia / Sedation, and post procedural monitoring facilities,

Pre-requisite of Trainees

- Trainees should be competent in diagnostic and appropriate aspects of upper gastrointestinal endoscopy
- ERCP experience although not essential, is recommended
- Participants should have experience on EUS.

General Objectives

- Recognise the **indication** EUS-guided FNA/B
- Utilization of EUS-guided **FNA/B** for tissue sampling with **higher yield rate**
- Understand advanced Diagnostic Technique such as **Elastography** & the role of **Contrast Agent** in EUS
- Understand the basic principles equipment required for therapeutic procedures
- Effective application of EUS in **therapeutic interventions.**

Assessment

- Competency of participants will be assessed **before and after** the workshop through a combination of knowledge and skill assessments.
- Participants' Knowledge will be assessed with
 - MCQ based on lectures delivered
 - Video cases in:
 - Identifying Artefacts
 - Identifying organs
 - Identifying common lesions
 - Skill Assessment on Cytology include
 - Slides preparation Assessment
 - Images for assessment

PART 3 – TOPIC OUTLINE/SCHEDULE

- DAY 1 or 2
- EUS-FNA/B
- EUS Pathology
- EUS in altered anatomy
- Documentations
- Advanced Diagnostic techniques
- Therapeutic techniques
- Management of complications
- Illustrative Case Discussions
- Hands-on

Lecture topics

- **EUS-FNA/B**

- Optimizing the diagnostic yield of EUS-guided FNA/B
- Tips and tricks for high FNA Tissue sampling

- **EUS Pathology**

- smear/specimen preparation
- Basic findings on cytology
 - How to recognize normal cells in EUS aspirates
- smear/specimen preparation
- What tests to request
- Ancillary Tests in the aspirate (Optional, country specific)

Lecture Topics

- **EUS in altered anatomy**
- **Documentations**
 - How to write a proper EUS report (with or without FNA/B)
 - Minimal Descriptive for each lesion
- **Advanced Diagnostic techniques**
 - Tissue harmonic imaging
 - Contrast-EUS
 - Elastography
 - IDUS

Lecture Topics

- **Therapeutic techniques**
 - Pancreatic Fluid Collection
 - CPN
- **Management of complications**

Lecture Topics; Illustrative Case Discussions

- Evaluation of Lesions
- EUS-TNM staging of cancers
- solid pancreatic neoplasms.
- pancreatic cystic neoplasms.
- Pancreatitis
 - ✓ Complication
 - ✓ Autoimmune
 - ✓ Chronic
- Adrenal lesions
- Pancreatic Divisum
- AUPBD
- Cancer recurrence
- Lymphoma evaluation

Hands-on Practicum

- Model/Simulator Hands-on
- Gut Wall Model
- EUS FNA Model
- Tissue Harmonic Echo (THE)
- Ikuma
- 3-D Printing Model
- Animal Model

- **Live patient demonstration just by faculty**



Thankyou so much for your attension