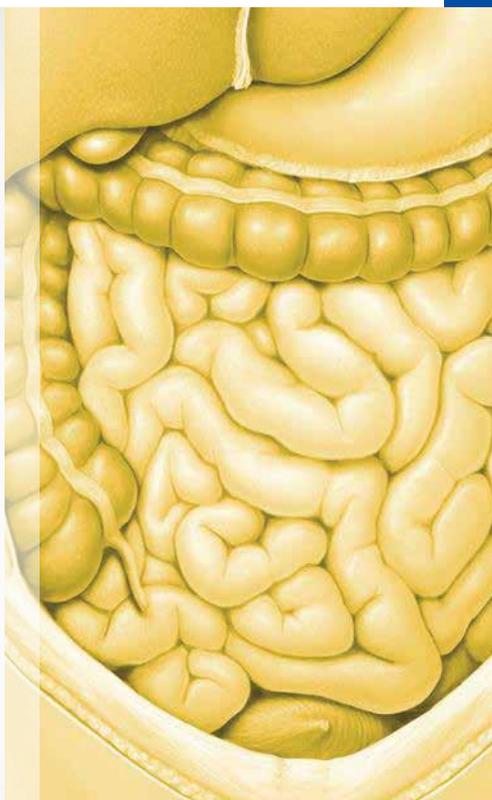


OLYMPUS


Medical Expert Training

**MEDICAL EXPERT TRAINING
"BASICS OF ENDOSCOPIC
ULTRASOUND (EUS)"
15 FEBRUARY 2019
KYIV, UKRAINE**



→ INTRODUCTION

The EU-ME2 is a high-quality compact ultrasound processor for use with OLYMPUS endoscopic and endobronchial ultrasound equipment that has been designed for integration with conventional endoscopy on a single workstation. With its high resolution and an image display that promotes clear visualisation, the EU-ME2 brings real clarity to your EUS procedures, supporting better detection and characterisation of lesions. A variety of new features such as harmonic echo and Elastography help to explore the future of endosonography.

→ Excellent

Improved basic functions ensure excellent ultrasound imaging.

B-mode

B-mode image quality has been substantially improved, making it possible to support more efficient localisation of tumours and more accurate identification of tissue properties and boundaries. Clearer image delineation helps enable more precise orientation for puncturing and aspiration during EUS-FNA and may make it easier to develop effective therapeutic practices.

→ Unique

New functions offer unique new possibilities in endosonography.

Tissue Harmonic Echo (THE)

When ultrasound waves are propagated through tissue, distortion occurs and higher harmonic components are generated. The THE mode uses these components to build an image of the targeted area. Potential advantages of harmonic imaging include improved resolution, an improved signal-to-noise ratio and fewer artefacts.

Elastography

An advanced form of ultrasound, elastography displays the relative stiffness of tissues by taking advantage of the deformation caused by the compression or vibrations generated by the heartbeat or vascular pulsations.

Pulse Wave Doppler

Pulse Wave Doppler measures blood flow velocities at specific locations, while cross-sectional images are viewed to spot the target vessel.

H-FLOW

Especially useful for imaging small vessels around the tip of the endoscope, the H-FLOW (High Resolution Flow) mode can help facilitate more precise manoeuvring during EUS-FNA or EBUS-TBNA by making it potentially easier to avoid vessels.

Contrast Harmonic EUS (CH-EUS)

Using technology designed to depict higher harmonics, the CH-EUS mode is expected to help realise enhanced sensitivity to tumours and other abnormal growths.

→ Specific

Designed specifically to optimise endosonographic procedures.

Fully compatible with a wide range of EUS and EBUS scopes and probes

Integrating both electronic and mechanical scanning technologies, the EU-ME2 is a total endosonography solution compatible with virtually all available OLYMPUS ultrasound endoscopes and miniature probes, providing access to a full range of endosonographic applications.

→ CONCEPT

This training is one-day hands-on training course.
Maximum number of participant is 5, official language of workshop is Russian.

→ FACULTY

MD Lidziya Tarasenko,
Expert in gastrointestinal endoscopic ultrasound (EUS)
Minsk, Republic Of Belarus,

MD Serhii Polyshchuk
The head of the department endoscopy
Gastro center “OLYMED”, Kyiv, Ukraine
The associate professor in National Medical University named after O. O. Bogomolets

→ GENERAL INFORMATION

How to Register

Please contact your local Olympus representative

Training Location

Gastro Center OLYMED
Metrologichna Street, 17/1
Kyiv 03143
Ukraine

www.olymed.ua

Supported by EndoAcademy

Please be informed that your personal data will be processed to the parties involved in the organization of this training course.

→ AGENDA

15th FEBRUARY 2019, FRIDAY

09:00–09:10 Welcome and introduction

09:10–10:15 Visit in endoscopic operating room — EUS equipment in endoscopy unit (Serhii Polyshchuk)

10:15–11:30 Live translations from the endoscopic operating room — expert EUS — 1 patient (Lidziya Tarasenska)

11:30–12:00 Working Lunch

12:00–13:00 Lecture "Endoscopic Ultrasound of gastrointestinal tract" (Lidziya Tarasenska)

13:00–14:00 Live translations from the endoscopic operating room — expert EUS — 1 patient (Lidziya Tarasenska)

14:00–16:30 Hand`s on Zone (one station) EU-ME1 + GF-UCT180 (Lidziya Tarasenska, Serhii Polyshchuk)

16:30–17:00 Final discussion, concluding remarks, delivery of participants` certificates



Electronic radial scanning



Electronic curved linear array scanning



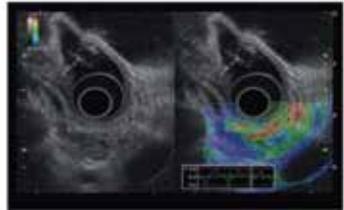
EBUS-TBNA



THE-P (radial)



THE-P (linear)



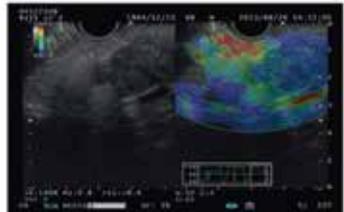
ELASTOGRAPHY (radial)



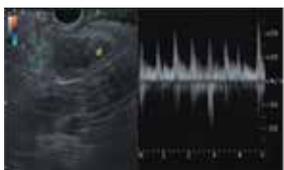
THE-P (radial)



THE-R (radial)



ELASTOGRAPHY (linear)



Pulse Wave Doppler



H-FLOW



Contrast Harmonic EUS (CH-EUS)



SPECIFIC — DESIGNED SPECIFICALLY TO OPTIMISE ENDOSONOGRAPHIC PROCEDURES

Fully compatible with a wide range of EUS and EBUS scopes and probes

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- Mechanical radial endoscopes
- Ultrasound miniature probes

- Electronic radial endoscopes
- EUS curved linear array endoscopes
- EBUS curved linear array endoscopes



Single monitor and single keyboard

The EU-ME2 features a user-friendly keyboard with a touch panel and trackball. The picture-in-picture function is standard, and when available, both endoscopy and ultrasound images can be displayed on a single monitor.

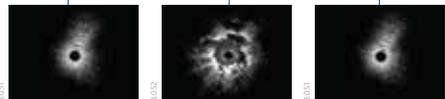
EVIS-ready and space-saving design

The EU-ME2 is designed to save space in your endoscopy suite. As an integral part of the OLYMPUS EVIS endoscopy system, it fits snugly on the standard endoscopy trolley, leaving plenty of room for all the other equipment you need.

Full support for endobronchial ultrasonography

The EU-ME2 is designed to support a wide range of EBUS procedures, such as the EBUS GuideSheath procedure. By placing the GuideSheath with the inserted miniature probe near the target lesion, the probe can be withdrawn and forceps or a brush can be conveniently advanced to the site of the lesion for further sampling. Advancing the sampling device through the sheath after the miniature probe has been withdrawn helps to improve accuracy and shorten the examination time.

Move the ultrasound probe within the guide sheath, back and forth observing the ultrasound image to assess the lesion.





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