PENTAX MEDICAL

EUS Masterclass

Theoretical modules and hands-on training

SERVIZO GALEGO de SAÚDE | Xerencia de Xestión Integrada de Santiago de Compostela

Dates:

April 10th - 12th, 2019

Venue:

Endoscopy Unit.
University Hospital of
Santiago de Compostela.
C/Choupana, s/n, 15706,
Santiago de Compostela, Spain.

Duration:

The program is designed to have duration of 27 hours over three days from 8:00h to 18:00h on days 1 and 2, and from 8:00 to 15:00h on day 3.

Number of participants:

Each program is designed for six participants.

Registration fee:

EUR 2.250,–
A pre-registration is required. Registration fee should be paid at registration. This fee includes course expenses, practitioner insurance, coffee breaks, lunches.

Accommodation at a 4* hotel located at walking distance from the hospital can be reserved by the technical secretariat on demand. Hotel accommodation is not included in the registration fee.

EUS Masterclass

Endoscopic ultrasound (EUS) has evolved in recent years into a technique with a major clinical impact in digestive and mediastinal diseases. In fact, EUS has represented a major advance in the diagnosis and staging of several tumors, and can determine a change in diagnosis and management in 25% to 50% of cases. EUS also provides guidance for fine-needle aspiration of almost all lesions detected during a standard procedure. In addition, several new diagnostic techniques associated with EUS have being developed over the last years, such as EUS guided elastography, contrast-enhanced EUS, and EUS-guided biopsy that are very useful for the differential diagnosis of solid lesions. These techniques are becoming essential in clinical routine. EUS-guided therapy is also increasing in terms of new indications, such as drainage procedures, tumor ablation and injection techniques. Although these procedures are being used in the clinical practice of specialized centers, there is a need for producing research data and increasing the knowledge in these fields.

In-line with these scientific and technological developments, there is a clear need for education in EUS and related techniques, and for the adequate positioning of these techniques in clinical practice.

The Department of Gastroenterology and Hepatology of the University Hospital of Santiago de Compostela, Spain, is an internationally recognized reference center for diagnostic and therapeutic endoscopic ultrasound. In addition, this department is an international reference center for research and education in this technique.

The Department of Gastroenterology and Hepatology of the University Hospital of Santiago de Compostela, Spain, is organizing Masterclass Programs on Pancreatic Diseases and on Advanced Endoscopic Ultrasound since 2005. These courses are being attended by Gastroenterologists of many different countries all around the world, from Europe, America and Asia.

University Hospital of Santiago de Compostela

Prof. Domínguez-Muñoz is an internationally renowned expert in pancreatic function, pancreatic diseases, and pancreatic endoscopy. He is the Chief of the Department of Gastroenterology and Hepatology of the University Hospital of Santiago de Compostela, Spain. Dr. Iglesias-García is an internationally renowned expert in advanced endoscopic ultrasound as well as in pancreatic diseases.

He has contributed over the past years with new developments on several novel techniques associated with endoscopic ultrasound, like elastography, contrast-enhancement and endoscopic ultrasound guided biopsy. Dr. Lariño is an international expert in endoscopic ultrasound as well as in pancreatic diseases. Dr. Ihab Abdulkader is an internationally recognized expert in cytopathology, mainly in the evaluation of endoscopic ultrasound biopsy samples. He is one of the key opinion leaders in the development of new strategies for the evaluation of biopsy samples obtained by endoscopic ultrasound.

The Department of Gastroenterology and Hepatology of the University Hospital of Santiago de Compostela offers different educational programs to gastroenterologists and GI fellows. The main programs consists of the Masterclass educational EUS hands-on programs, and fellowships. These programs are endorsed by the European Society of Gastrointestinal Endoscopy.

Main aims of the program

The current education program consists on theoretical modules and hands-on training. The main aims are:

Theoretical modules (7 hours)

- To provide the appropriate knowledge in endoscopic ultrasound, ranging from basic to specialized concepts.
- To promote the acquisition of knowledge for the adequate EUS-guided diagnosis, management and decision making of different diseases.
- To learn the future trends in the field of endoscopic ultrasound, mainly related to new technologies and therapeutic options.

Practical hands-on modules (20 hours)

- To acquire the skills needed to perform a basic endoscopic ultrasound, identifying anatomical landmarks, with both radial and linear probe.
- To learn the use of advanced imaging technologies, such as elastography and contrast-enhanced endoscopic ultrasound.
- To learn the performance of endoscopic ultrasound-guided tissue acquisition, including the procedure, the selection of the appropriate needle and the sample handling.
- To get insight in advanced therapeutic endoscopic ultrasound

Content of the theoretical program

Part 1. Theoretical basis of endoscopic ultrasound

- Endoscopic ultrasound systems
- Dedicated material for endoscopic ultrasound
- Organization of an Endoscopic Ultrasound Unit
- Quality Indicators for Endoscopic Ultrasound

Part 2. Diagnostic endoscopic ultrasound

- The EUS technique
  - Radial probe
  - Linear probe
- Indications for endoscopic ultrasound (based on organs)
  - Evaluation of the gut wall (esophageal, gastric, duodenal and rectal indications).
  - Pancreatico-biliary indications
  - Pancreatic solid and cystic lesions
    - Acute and Chronic Pancreatitis
    - Biliary diseases
  - Mediastinal
    - Lung cancer
  - Others
    - Liver lesions
    - Left adrenal gland

Part 3. EUS-guided tissue acquisition

- EUS-guided tissue acquisition techniques
  - Cytological and/or histological needles
  - Handling of tissue samples
- Formal and accepted indications

Part 4. Advanced imaging technologies associated with endoscopic ultrasound

- Elastography
- Contrast-enhanced endoscopic ultrasound
- Confocal endomicroscopy

Part 5. Endoscopic ultrasound guided therapies

- Celiac plexus neurolisis and blockade
- Drainage techniques
  - Collections
  - Ductal drainage
- Fine needle injection

Content of the hands-on program

Hands-on programme is done in patients and models.

About 30 EUS procedures will be performed at the Endoscopic Ultrasound Unit during the course.

Distribution of general indications of the procedures are as follows:

- 70% pancreatico-biliary disease
- 15% gut lesions
- 10% mediastinal lesions
- 5% others

Out of these procedures, advanced imaging is used in about 75% of the cases (elastography and contrast-enhanced endoscopic ultrasound).

Tissue acquisition (FNA/FNB) is performed in about half of these cases.

Number of therapeutic procedures is variable.

According to this data each participant will perform during the Masterclass program about five to ten procedures by himself/herself, guided by expert faculties.

Tissue acquisition techniques and drainage procedures will be learned on models.