# IMAGE-GUIDED THERAPIES COURSE 2023

## ABLATION HPB THERAPIES

*December 04 and 05, 2023*

## PERCUTANEOUS HPB IMAGE-GUIDED SURGERY

*December 06-07, 2023*

### COURSE DIRECTORS

- M. Giménez, Argentina
- D. Mutter, France
- S. Perretta, Italy

### INTERNATIONAL FACULTY

- René Adam, France
- R. Bale, Austria
- H. D'Agostino, United States
- A.A. Fretland, Norway
- M.A. de Gregorio, Spain
- E. Serra, Argentina
- G. Wakabayashi, Japan

# ABLATION THERAPIES

04 and 05 December 2023.

## *COURSE DESCRIPTION*

This course is designed for surgeons, radiologists, gastroenterologists, and any practitioners involved in image-guided interventions and tumour ablation therapies.
Today, minimally invasive tumour ablation therapies compete with and complement conventional resective surgery. It is anticipated that in a few years, ablation therapies will replace many of the current surgical procedures. Therefore, the need to understand the indications for ablation, the types of available energies and navigation systems is of great interest if not essential for the practitioner of the 21st century.

This course provides complete, timely, accurate, practical coverage of ablation techniques applied to different diseases while presenting new developments in instrumentation and technology as medical robotics and smart technologies may be major drivers in this field in the near future.

## *COURSE OBJECTIVES*

- To understand and practise different types of image-guidance for ablation.
- To provide the knowledge required to understand and test the various sources of energy for the destruction of tumours.
- To provide the knowledge required to select the best method of ablation for each organ and sector.
- To provide the knowledge required for understanding and identifying the indications, contraindications, and complications of these therapies.

## *EDUCATIONAL METHODS*

- Interactive theoretical and video sessions.
- Clinical case discussions.
- Live and pre-recorded demonstrations.
- Hands-on sessions on live tissue, simulators, and phantoms.

# IMAGE-GUIDED THERAPIES COURSE 2023

## DAY 1: MONDAY December 04, 2023

**8.30 am** **Registration and Welcoming of Participants**

*For OPTION A and OPTION B*

8.45 am Introduction

THEORETICAL SESSION
9.00 am to 1.00 pm

GENERAL HPB ABLATION

- Liver Tumor Ablation (percutaneous)
- Liver Tumor Ablation (laparoscopic)
- Pancreas Tumor ablation
- Robotized percutaneous procedures
- Clinical case discussions on the liver

***1.00 pm*** ***Lunch at the Institute***

*For OPTION B (Option A: afternoon free)*

HANDS-ON SESSION ON LIVE TISSUE AND SIMULATORS
2.00 pm to 6.00 pm

- RFA, MWA and IRE Techniques of Liver and Pancreas
- CT- Guided system
- Cryoablation
- US-Guided Laparoscopic Liver & Pancreas MWA and RFA
- Use of Needle Guidance angio robotic
- Echoendoscopic approach
- Optical and Electromagnetic Navigation System

***6.00 pm*** ***End of Session***

6.00 Cocktail in honour of the participants

# IMAGE-GUIDED THERAPIES COURSE 2023

## DAY 2: TUESDAY December 05, 2023

**8.30 am** **Evaluation of the Previous Day**

*For OPTION A and OPTION B*

8.45 am Introduction

THEORETICAL SESSION
9.00 am to 1.00 pm

PRECISION ABLATION

- Definition of ablation 2.0 and precision ablation.
- Planning
- Stereotactic navigation , navigation and confirmation?
- Future of Ablation
- Debate

***1.00 pm*** ***Lunch at the Institute***

*For OPTION B (Option A: afternoon free)*

HANDS-ON SESSION ON LIVE TISSUE AND SIMULATORS
2.00 pm to 6.00 pm

- RFA, MWA and IRE Techniques of Liver and Pancreas
- CT- Guided system
- Cryoablation
- US-Guided Laparoscopic Liver & Pancreas MWA and RFA
- Use of Needle Guidance angio robotic
- Echoendoscopic approach
- Optical and Electromagnetic Navigation System

***6.00 pm*** ***End of Session***

# PERCUTANEOUS HPB IMAGE-GUIDED INTERVENTION SURGERY

06 and 07 December 2023.

## *COURSE DESCRIPTION*

This course is designed for surgeons, radiologists and any physician specialists involved in HPB image-guided interventions. These healthcare professionals are committed to providing patients with the best, least invasive treatment appropriate for their condition. This revolutionary program brings you updates on what is happening now and what is on the horizon in the field of image-guided percutaneous intervention. You will hear about the latest clinical advances and practise the latest training techniques with detailed descriptions of percutaneous operative abdominal procedures.

This course provides complete, timely, accurate, practical coverage of interventional image-guided percutaneous techniques applied to abdominal diseases while presenting new developments in instrumentation and technology in the field.

## *COURSE OBJECTIVES*

- To address the indications, techniques, and results of most common procedures in abdominal percutaneous intervention.
- To provide the knowledge required to integrate percutaneous intervention in the clinical practice.
- To present the fundamental technical requirements of percutaneous intervention.
- To describe potential pitfalls and complications of percutaneous surgical procedures.
- To provide hands-on training to initiate participants into the practice of percutaneous surgery and/or enhance their expertise in this field.
- To start the practice of endoscopy and endoscopic ultrasound in minimally invasive therapies

## *EDUCATIONAL METHODS*

- Interactive theoretical and video sessions.
- Clinical case discussions.
- Live and pre-recorded demonstrations.
- Hands-on sessions on live tissue, simulators, and phantoms.

# IMAGE-GUIDED THERAPIES COURSE 2023

## DAY 1: WEDNESDAY December 06, 2023

**8.00 am** **Registration and Welcoming of Participants**

*For OPTION A and OPTION B*

8.15 am Introduction

### THEORETICAL SESSION
9.00 am to 1.00 pm

### PERCUTANEOUS TECHNIQUES APPLIED TO THE GALLBLADDER AND BILIARY TREE

- Percutaneous Cholecystostomy
- Drainage of Biliary Tract
- Fundamentals of Cholangioscopy
- New Possibilities in Biliary Treatments.
- New Horizons in Biliopancreatic EUS
- From Simulation to Clinical Practice on the Various Robotic Systems

### BILE DUCT INJURY

- BDI. Minimally Invasive Approach
- Surgical Repair of Biliary Duct Injury
- Clinical Case Discussion

***1.10 pm*** ***Lunch at the Institute***

*For OPTION B (Option A: afternoon free)*

### HANDS-ON SESSION ON LIVE TISSUE AND SIMULATORS
2.00 pm to 6.00 pm

- Development of Skills and Abilities
  - Puncture
  - Cannulation
  - Drainage
  - Stents
  - Use of Optical Systems
  - Introduction to Endoscopic Ultrasound (EUS)
  - Use US, CT, Robotic Angio and MRI for percutaneous procedures

***6.00 pm*** ***End of Session***

## DAY 4: THURSDAY December 07, 2023

**8.15 am Evaluation of the Previous Day**

*For OPTION A and OPTION B*

8.15 am Introduction

### THEORETICAL SESSION
9.00 am to 1.00 pm

### PERCUTANEOUS TECHNIQUES APPLIED TO BENIGN AND MALIGNANT PANCREATIC AND LIVER DISEASES

- Magnet Compression Anastomosis for treatment of total biliary anastomotic stricture
- Management of Acute Pancreatitis
- Venous Deprivation
- Transvaginal and Transrectal Drainage
- Image-Guided Percutaneous Treatments in the future of Surgery
- Safe Cholecystectomy

### CLINICAL CASE DISCUSSION

***1.10 pm Lunch at the Institute***

*For OPTION B (Option A: afternoon free)*

### HANDS-ON SESSION ON LIVE TISSUE AND SIMULATORS
2.00 pm to 6.00 pm

- Development of Skills and Abilities
  - Puncture
  - Cannulation
  - Drainage
  - Stents
  - Use of Optical Systems
  - Introduction to Endoscopic Ultrasound (EUS)
  - Use US, CT, Robotic Angio and MRI for percutaneous procedures

***6.00 pm End of Session***

*Program may be subject to modification*