

PROGRAMME

DATE

COURSE DIRECTORS

JULY 10 - 12

G. Torzilli (IT)

F. Giuliante (IT)

M. Giménez (AR)

COURSE ENDORSEMENT AND ACCREDITATION



This course is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS).

EACCME credits are also recognized by the American Medical Association towards the Physician's Recognition Award (PRA).



COURSE OBJECTIVES

- Learn the basic and advanced principles of intraoperative ultrasound guided liver surgery and thermoablation
- Develop strategies to approach liver tumours under a parenchyma-sparing approach using the ultrasound as a live navigation system
- Understand how to move from classical hepatectomy such as right and left resections to advanced parenchyma-sparing surgery.
- Enhance the knowledge about thermoablation machines and techniques
- Learn how to centre a lesion and become proficient in performing a laparoscopic ablation of liver tumors
- Explore and understand how to do all the new advanced liver procedures developed by prof. Torzilli as the Liver Tunnel, the upper transversal hepatectomy, the Roller Coaster hepatectomy, etc.
- Learn from world-wide recognized experts the tips and tricks on advanced ultrasound guided surgery and thermoablation
- Collaborate with peers to share experiences, best practices, and innovative approaches in advanced liver surgery and thermoablation.
- Gain insight into emerging technologies and advancement in intraoperative navigation systems for liver tumors ablation and resection (laparoscopic and open)
- test yourself by experimenting with the advanced techniques proposed during the course through the use of phantoms and in-vivo models under the supervision of expert trainers.



COURSE DIRECTORS

Guido TORZILLI Milan, Italy
Felice GIULIANTE Rome, Italy

Mariano GIMENEZ Buenos Aires, Argentina

SCIENTIFIC DIRECTOR

Simone FAMULARO Rome, Italy

FACULTY

Pietro ADDEO Strasbourg, France

Francesco ARDITO Rome, Italy
Guido COSTA Milan, Italy
Matteo DONADON Novara, Italy
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Barbara SEELIGER Strasbourg, France
Alejandro SERRABLO Zaragoza, Spain
Olivier SOUBRANE Paris, France

Go WAKABAYASHI Ageo City, Japan

TRAINERS

Pio CORLEONE Paris, France Flavio MILANA Milan, Italy

Karla URIBE RIVERA Strasbourg, France Antonella RONCHI Rio di Janeiro, Brazil

Thursday, July 10th, 2025

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07.45 am	Registration	
08.00 am	Welcome to participants	J. Marescaux
08.05 am	Course presentation	G. Torzili F. Giuliante M. Gimenez
	ICAL SESSION TIVE ULTRASOUND: THE FUNDAMENTALS	<u>Chairman</u> : G. Torzili F. Giuliante M. Gimenez
08.10 am	Open Ultrasound	A. Serrablo
08.30 am	Laparoscopic Ultrasound	M. Gimenez
08.50 am	Hepatic nodule: How to recognize it?	M. Donadon
09.10 am	Contrast enhanced ultrasound (CEIOUS): • Principles and applications	S. Famularo
09.30 am	Role of colour flow analysis	P. Addeo
09.50 am	Discussion with participants	
10.10 am	Break	
	ICAL SESSION IVER SURGERY: TIPS AND TRICKS	<u>Chairman</u> : S.Famularo A. Serrablo Y. Kawaguchi
10.30 am	IOUS & ICG injection	Y. Kawaguchi



10.50 am	Cognitive liver map during open and mini- invasive liver resections	F. Ardito
11.10 am	The compression: from the open to a work in progress in MALS	F. Procopio
11.30 am	 IOUS tricks: How to define the surgical area How to check the resection line intraoperatively How to identify an unknown vessel (hooking technique) Post resectional control 	S. Famularo
12.00 pm	Video session (pre-record) • How I do it • Discussion	F. Procopio A. Ronchi F. Ardito E. Dulundu
01.00 pm	Lunch at the Institute	

AFTERNOON

02.00 pm Lab presentation with Prof. Gimenez & Dr. Famularo

EXPERIMENTAL LABORATORY

Beginning of the workshop rotation at **02.15 pm**

Rotation time: one hour per station

TASK	Table N° in the OR	TITLE	SETTING
Station	Table 1	Table date of a blade and a day and a day and a day	F
1	Table 2	Technical aspects of ablation devices + US needle insertion with freehand technique	Ex vivo liver
	Table 3		
Station	Table 4		
2	Table 5	Percutaneous/Laparoscopic US: Probes manipulation	Phantom
	Table 6		
	Table 7		
Station 3	Table 8	IOUS- OPEN: Anatomy vascular recognition surgical tips and tricks	In vivo liver
	Table 9		
Station	Table 10	IOUS LADADOS CODIC: Apatomy vascular responsition	In vivo
4	Table 11	IOUS- LAPAROSCOPIC: Anatomy vascular recognition surgical tips and tricks	liver
	Table 12		

06.00 pm End of session

08.30 pm Dinner at the Restaurant "La Brasserie des Haras", 23 Rue des Glacières in Strasbourg



Friday, July 11th, 2025

MORNING

07.45 am Evaluation of the previous day

INTRAOPERA	TICAL SESSION ATIVE ULTRASOUND GUIDED LIVER SURGERY: ID NEW ANATOMIC CONCEPTS	<u>Chairmen</u> : G. Torzilli H. Pinto Marques M. Gimenez
08.00 am	R1 vascular surgery	E. Dulundu
08.20 am	How to identify and how to use the collateral veins	G. Torzilli
08.45 am	 Laparoscopic thermoablation: How to centre the lesion and how to proceed 	M. Gimenez
09.05 am	Hilar approach: from Takasaki to MILS	G. Wakabayashi (visioconference)
09.25 am	The transparenchymal approach	F. Giuliante
		<u>Chairmen:</u> A. Forgione
ADVANCE P	ARENCHYMA SPARING IOUS GUIDED LIVER SURGERY	
09.45 am	From wedge to rollercoaster: quantum hepatectomies	G. Torzilli
10.05 am	Coffee Break	

		<u>Chairmen</u> : O. Soubrane A. Serrablo F. Giuliante
10.30 am	Mini-meso hepatectomy	S. Famularo
10.50 am	Transversal hepatectomy and the "roller-coaster"	F. Procopio
11.10 am	ALPPS and two stage hepatectomy	F. Ardito
11.30 am	IOUS in case of major hepatectomies	H. Pinto Marques
11.50 am	Combined laparoscopic resection and thermoablation, Evidence	M. Gimenez
12.10 pm	 Robotic liver resection On the way to a new standard in liver resections? 	O. Soubrane
12.30 pm	Cluster approach for parenchyma sparing major hepatectomy	G. Torzilli
01.00 pm	Lunch at the Institute	



AFTERNOON

02.00 pm

Lab presentation with Pr. Gimenez & Dr. Famularo

EXPERIMENTAL LABORATORY (PRACTICE ON LIVE TISSUE)

02.15 pm

- IOUS guided laparoscopic liver parenchyma sparing resection
- IOUS guided laparoscopic ablation
- IOUS guided open parenchyma sparing resection/ablation

06.30 pm End of the day session - Evening free

Saturday, July 12th, 2025

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MORNII 07.45 am	NG Evaluation of the previous day	
	TICAL SESSION: N AND FUTURE PERSPECTIVES	<u>Chairman</u> : M. Gimenez G. Torzilli F. Giuliante
08.00 am	3D planningHow to do it?Is its use mandatory?	G. Costa
08.20 am	What surgical robotic systems exist today?	B. Seeliger
08.40 am	What robotic systems exist today for tumour ablation?	K. Uribe
09.00 am	What do we still need to know about liver tumour ablation?	M. Gimenez
09.30 am	The future of parenchyma-sparing surgery: will robotic surgery substitute the open advanced approach?	G. Torzilli
10.10 am	Coffee Break	
10.30 am	Robotic and AI in Ultrasound – IRCAD R&D	A. Hostettler
11.00 am	Computer assisted surgery. Everything changed again?	M. Gimenez
11.30 am	Final discussion	
12.15 pm	Course closure	
12.30 pm	Course evaluation	
	Delivery of Certificate of attendance	
01.00 pm	Lunch at the Institute	



NOTE PAD