

ITALIAN SCHOOL OF MINIMALLY INVASIVE LIVER SURGERY

SCUOLA ITALIANA DI CHIRURGIA MINI-INVASIVA DEL FEGATO

MILAN, ITALY
December 9th>16th, 2026
One week of one-to-one onsite training
Università Vita-Salute San Raffaele

Advanced minimally invasive liver surgery | Progressive technical complexity training | Hands-on experience in high-volume centers

SCHOOL DIRECTOR: **MARCO CATENA**
SCIENTIFIC AND EDUCATIONAL I GO MILS COORDINATOR: **FRANCESCA RATTI**

AN INITIATIVE BY liveRS

liveRS
Liver Research & Surgical education
Ricerca e formazione in chirurgia del fegato

UNDER THE AUSPICES OF aicep

THE I GO MILS SCHOOL IS AN INTERNATIONAL, STRUCTURED TRAINING PROGRAM DEDICATED TO ADVANCING EXPERTISE, STANDARDIZATION, AND INNOVATION IN MINIMALLY INVASIVE LIVER SURGERY (MILS)

The program offers a comprehensive educational pathway designed to support the professional development of surgeons, integrating high-level theoretical knowledge with practical insights to foster sound clinical judgment and technical decision-making autonomy.
Participants follow a dedicated training pathway focused on minimally invasive liver resections, with particular emphasis on surgical techniques, enabling technologies, and perioperative management strategies. The curriculum also addresses the appropriate indications and integration of open and minimally invasive approaches, promoting a balanced, patient-centered surgical strategy.

The program is organized into a **dedicated period of theoretical teaching and re-live surgical education**, followed by a **one-week practical training experience** at one of the School's accredited high-volume centers. This final phase provides direct exposure to clinical practice, including operative activity, perioperative management, and multidisciplinary decision-making.
Educational activities are delivered by an experienced faculty through focused lectures on key topics, ensuring a high-level scientific and cultural training environment.

A distinctive component of the program is represented by **re-live surgical sessions**, structured according to **progressive levels of technical complexity**. These sessions allow participants to observe procedures ranging from standard to highly complex cases, with real-time expert commentary highlighting operative strategies, critical steps, decision-making processes, and practical **tips and tricks.** A hallmark of the program is the "**Bring Your Own Case**" session, during which participants present their own clinical cases alongside edited surgical videos, fostering interactive discussion, critical appraisal, and shared learning within an international community of peers and experts.

The School is intended for surgeons who have completed formal training in General Surgery or related specialties and who aim to further develop their expertise in hepatobiliary surgery.

DECEMBER 9th, 2026 - DAY 1

10.30 **Welcome Coffee and Course presentation** F. Calise, M. Catena, F. Ratti

10.45 OPENING LECTURE
State of the art and evolution of scientific evidence in MILS in Italy and worldwide F. Ratti

11.15 **BASIC TECHNICAL SKILLS - 1**
Moderators: F. Calise, F. Ratti
Operating room setting, patient's position, trocar placement R. Alessandris
Instrumentation in laparoscopic and robotic liver surgery M. Cescon
Liver mobilization M. Catena
Vascular clamping D. Pagano
Complexity scores and how to use them R. Marino

13.00 Lunch

14.00 **BASIC TECHNICAL SKILLS - 2**
Moderators: F. Calise, M. Catena
Anaesthesiological mangement in minimally-invasive liver surgery I. Chiodega
ERAS protocols in minimally invasive liver surgery F. Ratti
The multidisciplinary team in MILS M. Barabino
The I GO MILS Registry L. Ruotolo

VIDEO SESSION - 1
15.30 **RELIVE LEFT LATERAL SECTIONECTOMY AND ANATOMICAL RESECTIONS OF SG2 AND 3**
Moderators: M. Catena, F. Calise
Relive cases presentation and key elements of surgical technique D. Pagano, M. Serenari
Operators: S. Gruttadauria, M. Cescon
Experts: F. Romano, M. Barabino

18.30 **End of day 1**

DECEMBER 10th, 2026 - DAY 2

08.30 **FUNDAMENTAL SKILLS IN MINIMALLY INVASIVE LIVER SURGERY**
Moderators: R. Troisi, G. Ercolani
Preoperative planning C. Cotsoglou
Technique of intraoperative ultrasound A. Ferrero
Uses of Artificial Intelligence in MILS G. Rompianesi

VIDEO SESSION - 2
09.30 **RELIVE ANATOMICAL RESECTIONS OF ANTERIOR SEGMENTS**
Moderators: F. Cipriani, A. Ferrero
Relive cases presentation and key elements of surgical technique G. Rompianesi, G. Ercolani
Operators: R. Troisi, G. Ercolani
Experts: C. Cotsoglou, C. Quintini

12.30 KEY NOTE LECTURE
Learning hepatic surgery in the era of pioneers and in the era of training opportunities
A. Ferrero

13.00 Lunch

14.00 FOCUS ON **TECHNICAL ASPECTS OF MILS**
Moderator: A. Vitale, F. Ratti
Approach to glissonian pedicles for anatomical minor resections C. Sposito
Approach to glissonian pedicles for anatomical major resections G. Berardi
Use of indocyanine green for anatomical resections A. Benedetti Cacciaguerra
Use of indocyanine green for lesions staining and other aims E.Mini

16.30 **MILS in DIFFERENT SETTINGS OF DISEASE**
Moderators C. Sposito, E. Mini
Benign tumors F. Cipriani
HCC A. Vitale
Cholangiocarcinoma F. Ratti
Liver metastases F. Mocchegiani

18.30 **End of day 2**

DECEMBER 11th, 2026 - DAY 3

08.30 **MANAGEMENT OF SYNCHRONOUS LIVER METASTASES FROM COLORECTAL CANCER**
Moderators: G.M. Ettorre, P. Sileri
Indications and outcomes F. Ardito
Onco-surgical aspects G. Gallo, R. Marino
Case-based discussion G. Grazi

VIDEO SESSION - 3
10.00 **RELIVE LEFT HEPATECTOMY**
Moderators: G. Grazi, F. Ardito
Relive cases presentation and key elements of surgical technique G. Berardi, F.E. D'Amico
Operators: G.M. Ettorre, U. Cillo
Experts: G. Zanus

13.00 Lunch

14.00 KEY NOTE LECTURE
How to safely implement liver surgery activity from open to MILS U. Cillo

14.30 FOCUS ON **ROBOT ASSISTED SURGERY**
Moderators: M. Catena, U.Cillo
Trocar and robot placement A. Brolese
Standard resections and learning curve R. Memeo
Techniques of parenchymal transection A. Ruzzenente
Allocation of cases to open, laparoscopic and robotic F. Ratti
Step up complexity: how to deal with technical challenges F. D'Amico

17.00 **VIDEO SESSION: MANAGEMENT OF COMPLICATIONS (My best and my worst case)**
Moderators: A. Ruzzenente, M. Ravaioli
Operators: F. Izzo, F. Romano, G. Zanus, C. Quintini, M. Massani, F. D'Amico

18.30 **End of day 3**

DECEMBER 12th, 2026 - DAY 4

08.30 FOCUS ON **PREVENTION AND MANAGEMENT OF COMPLICATIONS IN MILS**
Moderators: G. Belli, M. Catena
Bleeding N. Russolillo
How to optimize the use of haemostatic agents for temporary and definitive haemostasis F. Ratti
Conversion F. Cipriani
Biliary leakage M. Ravaioli

10.30 **PERIOPERATIVE ASPECTS OF MILS**
Moderators: G. Belli, M. Ravaioli
Patients reported outcomes in MILS F. Cipriani
The issue of costs in MILS R. Alessandris

11.00 **MILS AND LIVER TRANSPLANTATION**
Moderators: G.M. Ettorre, R. Troisi

KEY NOTE LECTURE
Technical interfaces, Oncologic pathways and future perspectives V. Mazzaferro

Use of MILS in bridge to transplant setting P. Magistri
MILS for recurrence after liver transplantation C. Sposito
Living donor liver surgery and minimally invasive approaches S. Di Sandro
Case-based discussion M. Serenari

13.30 **End of day 4**

DECEMBER 14th, 2026 - DAY 5

Moderators: E. Gringeri, F. Ratti, U. Boggi

08.30 **"BRING YOUR OWN CASE" session from School Participants**

KEYNOTE LECTURE

11.00 **Present and future of HPB robotic surgery** U. Boggi

11.30 **ABLATION TECHNIQUES IN THE TREATMENT OF LIVER TUMORS**
Moderators: R. Santambrogio, M. Colasanti
Indications, approaches, operators - Face to face (interventional radiologist vs surgeon)
F. De Cobelli, E. Gringeri

KEY NOTE LECTURE

12.30 **New classification of liver resections based on technical complexity** G. Torzilli

13.00 Lunch

14.00 **TECHNICAL INSIGHTS IN MILS**
Moderators: J. Lanari, R. Memeo
Planning of anatomical segmentary resections, all routes to anterior segments A. Anselmo
Planning of anatomical segmentary resections, all routes to posterior segments J. Lanari
Segment 1 resection by MILS: approaches, techniques, outcomes M. Colasanti

VIDEO SESSION - 4

15.00 **RELIVE ANATOMICAL RESECTIONS OF SG5 AND SG6**
Moderator: U. Boggi, A. Anselmo
Relive cases presentation and key elements of surgical technique A. Benedetti Cacciaguerra
Operators: R. Memeo, M. Vivarelli
Experts: R. Santambrogio, M. Colasanti

18.00 **End of day 5**

DECEMBER 15th, 2026 - DAY 6

08.30 **PLANNING OF MAJOR AND COMPLEX LIVER RESECTIONS**
Moderators: F. Giuliante, F. Romano
Planning of anatomical major right resections F. Ratti
MILS and techniques for liver hypertrophy M. Serenari
Radiological techniques of liver hypertrophy F. De Cobelli

VIDEO SESSION – 5
10.00 **RELIVE RIGHT HEPATECTOMY**
CONVENTIONAL CAUDO-CRANIAL vs CRANIO-CAUDAL APPROACH
Moderators: F. Giuliante, A. Ferrero
Relive cases presentation and key elements of surgical technique E. Mini, S.B. Puglisi
Operators: E. Jovine, M. Catena
Experts: A. Anselmo, F. Romano

13.00 Lunch

14.00 **ADHESION PREVENTION IN ABDOMINAL AND LIVER SURGERY:**
FROM REDO MILS TO FUTURE SURGICAL ACCESS
Moderators: F. Ratti, F. Giuliante
Redo surgery M. Serenari
Adhesion prevention in abdominal surgery: clinical rationale and practical considerations M. Colasanti
Case-based discussion: when adhesions change surgical strategy A. Giuliani

VIDEO SESSION – 6
16.00 **RELIVE ANATOMICAL RESECTIONS OF SG7 AND SG8**
Moderators: M. Serenari, F. Romano
Relive cases presentation and key elements of surgical technique F. Razionale, S. Langella
Operators: F. Giuliante, A. Ferrero
Expert: M. Catena, A. Giuliani

18.30 **End of day 6**

DECEMBER 16th, 2026 - DAY 7

08.30 **ADVANCED TECHNICAL INSIGHTS IN MILS**
Moderators: A. Ruzzenente, F. Ratti
Augmented reality and 3D reconstructions in MILS S. Conci
Lymphadenectomy in MILS A. Belli
Biliary reconstructions in MILS P. Magistri

VIDEO SESSION - 7
10.00 **SURGERY FOR BILIARY TUMORS**
Moderatori: F. Ratti, A. Belli
Relive cases presentation and key elements of surgical technique S. Conci
Operator: A. Ruzzenente, A. Belli
Expert: M. Catena. P. Magistri

13.00 **Wrap up and Closure**

SCHOOL CENTERS

OSPEDALE SAN RAFFAELE MILAN Ratti Francesca - Catena Marco

AZIENDA OSPEDALIERO PISANA PISA Boggi Ugo

OSPEDALE PINETA GRANDE NAPLES Calise Fulvio

IRCCS - AOU DI BOLOGNA POLICLINICO SANT'ORSOLA BOLOGNA Cescon Matteo

AZIENDA OSPEDALIERA UNIVERSITARIA PADUA Cillo Umberto

ISTITUTO NAZIONALE TUMORI MILANO Mazzaferro Vincenzo

OSPEDALE GENERALE REGIONALE "F. MIULLI" ACQUAVIVA DELLE FONTI - BARI Memeo Riccardo

POLICLINICO DI MODENA MODENA Di Benedetto Fabrizio

OSPEDALE MORGAGNI PIERANTONI FORLÌ Ercolani Giorgio

OSPEDALE S. CAMILLO FORLANINI INMI L. SPALLANZANI ROME Ettorre Giuseppe Maria

OSPEDALE MAURIZIANO TURIN Ferrero Alessandro

POLICLINICO GEMELLI ROME Giuliante Felice

ISMETT PALERMO Gruttadauria Salvatore

ISTITUTO NAZIONALE TUMORI IRCCS FONDAZIONE G. PASCALE NAPLES Izzo Francesco

OSPEDALE MAGGIORE BOLOGNA Jovine Elio

OSPEDALE BORGO ROMA VERONA Ruzzenente Andrea

UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II NAPLES Troisi Roberto

OSPEDALE CARDARELLI NAPLES Vennarecci Giovanni

OSPEDALE UMBERTO I ANCONA Vivarelli Marco

INFO

REGISTRATION

This event will take place only in person.
Registrations must be made by sending an expression of interest email to igomils.education@gmail.com
THE SCHOOL WILL BE HELD IN ENGLISH LANGUAGE.

ONE-TO-ONE ONSITE TRAINING

Following the classroom-based teaching days, trainees will have the opportunity to complete a separate one-week onsite training period at one of the Italian centres affiliated with the School. They may indicate their preferred host centre and will attend clinical activities and observe procedures in the operating room.

Surgical Training Coordinator: Matteo Serenari

SCHOLARSHIPS AVAILABLE

Free scholarships covering the scientific programme fee are available for surgeons under 40.
APPLICATIONS ARE OPEN FROM JUNE 1st TO JULY 31st, 2026.
To apply, please send your CV to: igomils.education@gmail.com

FULL REGISTRATION: €3.500,00 + VAT 22%

The registration fee allows access to all days of course in the period **DECEMBER 9th >16th, 2026** with the possibility of receiving the teaching material, includes hospitality for the nights of **DECEMBER 9th until 15th,** at a hotel close to the I Go Mils School - IRCCS Ospedale San Raffaele headquarters, 1 daily coffee break, 1 daily lunch, 1 end-of-course dinner

REGISTRATION WITHOUT OVERNIGHT STAY: €2.800.00 + VAT 22%

The registration fee allows access to all days of course in the period **DECEMBER 9th >16th, 2026** with the possibility of receiving the teaching material, 1 daily coffee break, 1 daily lunch, 1 end-of-course dinner

BANK TRANSFER INFORMATION

Account holder: **liveRS**
IBAN: **IT13T0888302401016000164504**
Account No: **16/000164504**
BIC Code: **CCRTIT2TBDB**

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