



INTERVENTIONAL ULTRASOUND SIUMB COURSE **Post-graduate specialization course**

Course length: 120 hours

Course Location:

- SD Chirurgia Universitaria and SD Ecografia interventistica e dei trapianti at Monoblocco Chirurgico - Building 6, Cisanello Hospital, Pisa, Italy
- EndoCAS, Building 102, Cisanello Hospital, Pisa, Italy

Goal

The aim of the course is to provide basic practical and theoretical skills understanding why, when, and how to perform interventional ultrasound.

From the very beginning of the program learners attend and, after the basic training course completion, perform clinical examinations and participate in ultrasound guided interventions.

At the conclusion of this course the learners will be able to understand how and when practice an interventional ultrasound, perform basic procedures and address patients to the specialist who perform the more complex procedures (e.g. thermo-ablation).

Participants

This course is designed for **physicians and medical specialists** with ultrasound basic knowledge, wanting to learn how to perform interventional ultrasound exams.

Numbers of participants: 3-10 for each course.

Number of courses: 1 per year.

Teachers

Prof. G. Di Candio, Prof. A. Campatelli, Prof. L. Morelli, Dr. V. Borrelli, Dr. R. Pisano.

The course is overseen by Prof. Franco Mosca, a consultant general surgeon.



PROGRAM	
Day one	Oral and practical session: Introduction to interventional ultrasound
Day two	Oral and practical session: materials and methods
Day three	Oral and practical session: FNAB and biopsy: when and how (liver, thyroid, breast, pancreas, kidney, prostate, etc...)
Day four	Oral and practical session: FNAB and biopsy: when and how
Day five	Oral and practical session: Focus on drainages
Day six	Oral and practical session: Thoracic drainages
Day seven	Oral and practical session: Abdominal drainages
Day eight	Oral and practical session: Fluid collection drainages
Day nine	Oral session: Biliary drainages: how and when
Day ten	Oral and practical session: Biliary drainages: how to perform
Day eleven	Oral and practical session: Liver abscess drainages
Day twelve	Oral and practical session: Liver cyst aspiration
Day thirteen	Oral and practical session: Nephrostomy: how and when
Day fourteen	Oral and practical session: Nephrostomy in graft kidney: how and when
Day fifteen	Oral and practical session: Sovrapubic cystostomy: how and when
Day sixteen	Oral session: Therapeutic interventional ultrasound: how and when
Day seventeen	Oral session: Percutaneous ethanol injection in echinococcal cyst (PAIR)
Day eighteen	Oral session: Percutaneous ethanol injection in HCC: does it play still a role?
Day nineteen	Oral session: Thermoablation: techniques (RF, MW, LASER, HIFU)
Day twenty	Practical session: Liver nodule thermoablation
Day twenty-one	Oral and practical session: HIFU (High-Intensity Focused Ultrasound): indications and technique



Day twenty-two	Oral and practical session: US as a guide to insert central vascular catheter
Day twenty-three	Oral and practical session: Cholecystostomy: how and when
Day twenty-four	Oral and practical session: Role of the US in complications after surgery (collections, anastomotic stenosis, anastomotic leaks)
Day twenty-five	Intra-operative ultrasound
Day twenty-six	Procedure on transplanted organs
Day twenty-seven	Practical session
Day twenty-eight	Practical session
Day twenty-nine	Practical session

Assessment of learners

Performed on a model, learners should be able to perform thoracic drainage or abdominal drainage.

Assessment of teachers

At the end of the course learners are asked to fill an anonymous template about course quality and pertinence and about teacher skills. Generally the appreciation index is more or less 90%.

Certificate

If successful, a candidate will receive a proficiency and a participation certificate.

Registration fee: 1,600 euro.

Organizing Secretariat:

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PATOLOGIA CHIRURGICA, MEDICA, MOLECOLARE E DELL'AREA CRITICA
RICERCA TRASLAZIONALE E DELLE NUOVE TECNOLOGIE IN MEDICINA E



Società Italiana di Ultrasonologia in Medicina e Biologia

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