



ULTRASOUND SIUMB COURSE IN SURGERY **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 in the assessment of commonly encountered clinical and surgical problems.

At the conclusion of this course the learners will be able to:

- Understand the physical principles and artefacts of ultrasound;
- Gain experience in navigating the ultrasound system and its features;
- Understand US anatomy;
- Demonstrate proficiency in performing and interpreting ultrasound scans;
- Understand practical applications and limitations of ultrasound in the clinical and surgical environment;
- Be professional and competent sonographers in the medical community.

Participants

This course is designed for **physicians, medical specialists (in particular surgeons)** with little or no prior ultrasound experience.

Numbers of participants: 6-30 for each course.

Number of courses: 1 per year.

Teachers

Prof. A. Campatelli, Dr. V. Borrelli, Dr. R. Pisano.



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

PROGRAM

Day one	Oral and practical session: Introduction to basic physics and instrumentation, ultrasound artefacts, probe manipulation and image optimisation.
Day two	Oral and practical session: The Doppler mode ultrasound: Color Doppler, Continuous Doppler, Pulsed wave Doppler, Duplex. The Harmonic mode.
Day three	Oral and practical session: Contrast-enhanced ultrasound
Day four	Oral and practical session: How to perform an abdominal exam?
Day five	Oral and practical session: Liver, biliary tree and gallbladder anatomy
Day six	Oral and practical session: Liver, biliary tree and gallbladder diseases
Day seven	Oral and practical session: Liver transplantations.
Day eight	Oral and practical session: Pancreas anatomy, diseases, and transplantations.
Day nine	Oral and practical session: Spleen anatomy and diseases
Day ten	Oral and practical session: Bowel anatomy and diseases
Day eleven	Oral and practical session: Lymphnodes anatomy and diseases
Day twelve	Oral and practical session: Main abdominal vessels anatomy and diseases
Day thirteen	Oral and practical session: Kidney and adrenal glands anatomy and diseases
Day fourteen	Oral and practical session: Bladder anatomy and diseases and kidney transplantations
Day fifteen	Oral and practical session: Male and female pelvis anatomy and diseases
Day sixteen	Oral and practical session: Breast anatomy and diseases
Day seventeen	Oral and practical session: Vessels of lower inferior limbs anatomy and diseases
Day eighteen	Oral and practical session: Muscles, tendons and ligaments anatomy and diseases
Day	Oral and practical session:



nineteen	Neck anatomy : thyroid, vessels, lymphnodes, salivary glands
Day twenty	Oral and practical session: Neck diseases : thyroid
Day twenty-one	Oral and practical session: Neck diseases : vessels
Day twenty-two	Oral and practical session: Neck diseases : lymphnodes and salivary glands
Day twenty-three	Oral and practical session: Ultrasound in paediatrics
Day twenty-four	Oral and practical session: Thoracic anatomy and diseases
Day twenty-five	Oral session: How to perform an abdominal emergency scan
Day twenty-six	Oral session: basics for interventional ultrasound: how and when?
Day twenty-seven	Oral session: how to fill a report of an ultrasound examination
Day twenty-eight	Practice on patients
Day twenty-nine	Practice on patients

Assessment of learners

Performed on a model, learners should be able to identify the anatomical structures asked by the teacher and to identify abnormalities of pathological conditions.

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 fees: 1,600 euro.



Organizing Secretariat:

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