

GOALS OF THE COURSE

- This course is a part of the WINFOCUS project on the ultrasound emergency goal-directed curricula for patients' resuscitation. In order to restore volume, a central venous lines should be positioned during phase C (circulation) of resuscitation.
- The course is organized in a 4 x 4 formula in two days: 4 main topics of theory, 4 hours of ultrasound anatomy on healthy volunteers and patients, 4 hours of hands-on training in venipuncture on animal models, 4 supervised ultrasound central venous cannulation in patients.
- The participant will be guided in a learning process ending with full proficiency in ultrasound cannulation.
- The road-map for training in pediatric US cannulation will be different and will require at least 10 supervised US vascular cannulation.

HAND-ON TRAINING POST-COURSE: After the first two days of course, a practice on patients is required. WINFOCUS will provide authorized Centers where the participants will be supervised during US vascular cannulation on patients. A minimum skilling of 4 supervised US cannulation will be performed, after those, the participant will have to perform at least 25 US central catheterization. A final exam will verify the skilling.

Course Director: Dr. Massimo Lamperti.

FACULTY

Dott. Massimo Lamperti:

Course Director WINFOCUS instructor for USC-VASC course Neuroanesthesia
Dept. Fondazione Istituto Neurologico "C. Besta" Milano

Dott. Dario Caldiroli:

Chief of Neuroanesthesia
Dept. Fondazione Istituto Neurologico "C. Besta" Milano

Dott. Matteo Subert:

WINFOCUS instructor for USC-VASC course Neuroanesthesia
Dept. Fondazione Istituto Neurologico "C. Besta", Milano

Dott. Giovanni D'Onofrio:

WINFOCUS instructor for USC-VASC course Neuroanesthesia
Dept. Fondazione Istituto Neurologico "C. Besta" Milano

Dott. Davide Vailati:

WINFOCUS instructor for USC-VASC course Neuroanesthesia
Dept. Fondazione Istituto Neurologico "C. Besta", Milano

Dott. Carlo Materazzo:

Dept. of Cardiology, Istituto Nazionale dei Tumori Milano

Dott. Mauro Pittiruti:

Università Sacro Cuore Policlinico Gemelli Roma

DAY I

- Ultrasound physics and principles: from waves to images. Vascular knobology (**Matteo Subert**)
- Evidences on the use of ultrasound-guided cannulation for vascular access (**Gianni D'Onofrio**)
- Ultrasound Vascular Venipuncture: material and techniques (**Mauro Pittiruti**)
- Infective risk in central catheterization (**Massimo Lamperti**)
- Risk management and medical-legal issues on vascular access (**Dario Caldiroli**)
- Pediatric vascular access (**Massimo Lamperti**)
- Ergonomics and US vascular access (**Dario Caldiroli**)
- Basics of arterial and peripheral venous ultrasound vascular access (**Davide Vailati**)
- Basics of echocardiography for catheter tip detection after central vascular access (**Carlo Materazzo**)
- Ultrasound detection of primary complications after a vascular catheterization (**Davide Vailati**)

DAY 2

HOT AND TUTORIALS

- Hands-on training on the use of a ultrasound machine
- Hands-on training on ultrasound anatomy (workstations with healthy volunteers)
- Tutorials on interactive cases on ultrasound images and simulation of difficult cases

TRAINING ON ANIMAL MODELS

- Hands-on training on animal models: venipuncture and cannulation of artificial vessels. In-plane and out-of-plane visualization and catheterization
- Ultrasound lab on patients: OR, Intensive Care, Neuroradiology
- Ultrasound cannulation of central veins in pediatric patients

PAYMENT

Bank transfer to:

BANCA POPOLARE DI SONDRIO
Agenzia 9
Viale Romagna, 24 Milano
ABI 05696
CAB 01608
CIN A
C/C 6200/21
IBAN IT26 A056 9601 6080 0000 6200 X21
BBAN:A 05696 01608 000006200X21

The registration fee includes:

the entrance to the scientific sessions, the attendance certificate, the congress kit, coffee breaks and lunch.

Date: _____

Signature: _____

Fondazione IRCCS Istituto Neurologico Carlo Besta by the Italian law n. 675/1996, decree law June 30 2003 n.196, informs you that the data will be managed with information technology, by Fondazione IRCCS Istituto Neurologico Besta.

The customer by filling this form agrees to all above mentioned condition and therefore to the treatment of personal data.