

# 2019 First steps in Neonatal Brain Ultrasound: an amazing, adventurous journey!

## Learning objectives of the Course

The Course is aimed at beginners in neonatal brain US scanning and it is organized offering both frontal lectures and practical sessions.

The aim of the Course is to give an introduction to the exciting world of ultrasound imaging.

During the day attendees will learn the fundamentals of US physics, the probe skills to optimize an US image and the different functionalities of the ultrasound system.

The Course will give each participants the opportunity to get "hands-on" sessions with the machines and to use it to scan and fix in an image the basic structures of the "normal" neonatal brain.

The main goal of the Course is to build an open "dialogue" between teachers and participants, in order to learn practically the guidelines for brain ultrasonography.

The theoretical lessons will be connected with the didactic programme of the following Course "2019 Neonatal Ultrasound Course. Why, how and when an ultrasound image?" which will be held on 19-22 March, 2019 in Florence, Italy, where many "pathologic" images of the neonatal ultrasonography will be treated extensively.

*The Director of the Course  
Dr. Antonio La Torre*

## Lecturers

**Dr. Antonio La Torre**

*Neonatology Department, AUO Careggi Hospital, Florence, Italy*

**Prof. S. Monica Epelman**

*University of Central Florida and Florida State University*

*Department of Medical Imaging - Radiology*

*Nemours Children's Hospital*

*Orlando, USA*

**Prof. Michael Riccabona**

*Department of Radiology*

*Division of Paediatric Radiology*

*University Hospital LKH, Graz, Austria*

## Organizing Secretariat



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# Monday, 18 March

## PROGRAMME

- 8.30-9.00 **Introduction: the anatomy of the brain**  
*Dr. Antonio La Torre*
- 9.00-9.30 **US Physics: what is it, how does it work?**  
A talk together  
*Dr. Antonio La Torre*
- 9.30-10.00 **Transducers and their properties**  
A talk together  
*Dr. Antonio La Torre*
- 10.00-10.30 **Neuroultrasonography: in pursuit of an optimized examination. Coronal and sagittal planes. The main points of view: anterior and posterior fontanel, mastoid fontanel**  
*Prof. S. Monica Epelman*
- 10.30-10.45 COFFEE BREAK
- 10.45-11.45 **\*First practical session (phantom): the technical properties of US machine, the basic rules of a good exam**
- 11.45-12.30 **\*Second practical session (phantom): An US exam by alone...print your images!**
- 12.30-13.10 **Ischaemic encephalopathy and the normal hyperechodensity-cystic-lesions (normal and abnormal)**  
*Prof. S. Monica Epelman*
- 13.10-14.15 LUNCH
- 14.15-14.45 **Neonatal Cerebral hemorrhage**  
*Prof. S. Monica Epelman*
- 14.45-15.15 **Doppler Sonography in neonatal neurosonography: physics, basics and typical applications/findings**  
*Prof. Michael Riccabona*
- 15.15-16.30 **\*Third practical session (babies)**
- 16.30-17.45 **\*Fourth practical session: (babies)**
- 17.45-18.15 **The cerebral ventricles: the normal and the pathology (hydrocephalus)**  
*Prof. Michael Riccabona*
- 18.15-18.30 *Questions and Answers*  
*CME Test*

## GENERAL INFORMATION

**Course venue** **Palazzo Ricasoli Polihotels**

Via delle Mantellate, 2 - Florence, Italy

**Registration fee**

**by 25 January 2019**

**by 8 March 2019**

(Fee VAT included)

Euro 485,00

Euro 585,00

No on site registration available.

The fee includes: course materials, a CD with the lessons, coffee break and light lunch.

The Course that will be held on March, 18<sup>th</sup> 2019 is limited to 18 participants. The Organizing Secretariat will confirm the registration to the first 18 participants.

In order to submit your registration and/or hotel reservation, please open the page:

[web.aimgroupinternational.com/2019/ultrasound](http://web.aimgroupinternational.com/2019/ultrasound)

**UEMS – European Union of Medical Specialist**

UEMS credits will be applied for. They are valid all over Europe, the United States and Canada (reciprocity agreement with the American Medical Association).

**CME Continuing Medical Education**

(for Italian Participants only)

CME credits, requested to Ministry of Health, will be given to the participants of the Course.

\* The lecturers of the practical sessions are: S.M. Epelman, A. La Torre, M. Riccabona