2027 Neonatal Ultrasound Course. Why, how and when an ultrasound image?

Webinar Course, 15-18 March 2027
(italian Time/CET)

PROGRAMME

DIRECTOR

Dr. Antonio La Torre

Neonatology Department
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Lecturers

Prof. Alan Daneman
Department of Diagnostic Imaging
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University of Toronto, Canada

Prof. Monica Epelman
University of Central Florida
Department of Medical Imaging/Radiology
Nemours Children's Hospital
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Dr. Eoghan Laffan
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Coombe Women's Hospital
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Dr. Antonio La Torre
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Prof. Sebastian Tschauner
Department of Radiology
Division of Paediatric Radiology
University Hospital LKH
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Learning objectives

Ultrasound imaging of the urogenital tract in neonates and infants

- To become familiar with the different pathologic images of neonatal urogenital tract and with renal haemodynamics
- The imaging tests help the participants to understand many practical issues of diagnosis and the importance of ultrasound follow-up.

Ultrasound imaging of neonatal spine and chest

- To understand the technique of the exam which requires high skill.

Ultrasound imaging of neonatal abdomen

- To understand limits and usefulness of gastrointestinal tract, liver, spleen and pancreas ultrasound imaging
- The imaging tests help the participants to understand many practical issues of diagnosis.

Ultrasound imaging of neonatal brain

- To become familiar with the different pathologic images of neonatal brain: morphology and haemodynamics
- The imaging tests help the participants to understand many practical issues of diagnosis and the importance of ultrasound follow-up.

Basic concepts of US Physics and Quality Assurance

- To understand some basic elements of the US machine functioning and its Quality Assurance and Safety.

Information

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The Course is intended for paediatricians, neonatologists, paediatric radiologists and sonographers.
The language of the Course is English.
The Course will be delivered exclusively online as a webinar. All times refer to Italian time (CET).
The Course will be recorded, and registered participants will have access to the recordings for two months following the end of the Course.
At the end of each lecture, a test will be provided to assess participants' learning.
Please note that, if the minimum number of participants is not reached, the Course will be cancelled and participants will be refunded.

REGISTRATION FEE FOR ON-LINE PARTICIPATION	Early bird fee by 17 January	Regular fee from 18 January
Italian, European or Non European Individuals or Companies	€ 490,00 (VAT 22% included)	€ 590,00 (VAT 22% included)

* Online participants will receive a link to join the Course

Payment

The payment of the registration fee can be done as follows:

By Bank transfer to
AIM Italy Srl
Banca Intesa Sanpaolo (Milan – nr. 01882)
IBAN: IT57 D030 6909 4571 0000 0005 623
SWIFT/BIC: BCITITMM

Please state the name of the participant and the name of the Course and send a copy of the bank transfer by email: ultrasound2027@aimgroup.eu

By Credit Card
All major credit cards are accepted (VISA, Mastercard).

Information

Application

In order to submit your registration please visit the website: web.aimgroupinternational.com/2027/ultrasound

Cancellation

The cancellation should be notified to the Organizing Secretariat (ultrasound2027@aimgroup.eu) in writing only. The registration fees less than 25% administrative charges will be refunded if the cancellation is announced before February 19, 2027. After this date no refund will be possible. Refunds will be processed and issued 60 days after the Course.

Organizing Secretariat

AIM GROUP INTERNATIONAL

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MONDAY, 15 March 2027

Morning

Dr. Antonio La Torre

09.00-09.30 Introduction to the Course: the problems and the future of Ultrasonography

09.30-10.10 The corner of US Physics: what is useful to remember? (first part)

10.10-10.15 *Questions and Answers*

10.15-11.00 The corner of US Physics: what is useful to remember? (second part)

11.00-11.05 *Questions and Answers*

Dr. Eoghan Laffan

US imaging of Neonatal Spine and Chest (First part)

11.05-12.00 Neonatal Spine: US technique, normal anatomy, pathology

12.00-12.10 *Questions and Answers*

12.10-13.00 Neonatal Chest: mediastinum, congenital lung lesions, effusions, consolidation and atelectasis

13.00-13.10 *Questions and Answers*

13.10-14.00 BREAK

Afternoon

Prof. Monica Epelman

US imaging of Neonatal Brain (First part)

14.00-14.50 Equipment, techniques and normal sonographic anatomy

14.50-15.00 *Questions and Answers*

15.00-15.50 Variants and scanning artifacts

15.50-16.00 *Questions and Answers*

16.00-16.50 Intracranial haemorrhage in preterm and term infants

16.50-17.00 *Questions and Answers*

TUESDAY, 16 March 2027

Morning

Dr. Antonio La Torre

08.45-09.25 The corner of US Physics: what is useful to remember? (third part)

09.25-09.35 *Questions and Answers*

Dr. Eoghan Laffan

US imaging of Neonatal Spine and Chest (Second part)

09.35-10.05 Neonatal Lung US: introduction-technique, normal and abnormal signs in lung US

10.05-10.15 *Questions and Answers*

10.15-11.00 Neonatal Lung US: LUS Scores-LUS Pathology

11.00-11.10 *Questions and Answers*

11.10-11.40 Neonatal Lung US: US diaphragm-palsy; CDH; diaphragmatic excursion

11.40-11.50 *Questions and Answers*

11.50-12.20 Neonatal Lung US: LUS Algorithms; advantages and disadvantages of LUS

12.20-12.30 *Questions and Answers*

12.30-13.00 Other uses for US in the Neonate

13.00-14.00 BREAK

Afternoon

Prof. Monica Epelman

US imaging of Neonatal Brain (Second part)

14.00-14.50 Hypoxic-ischemic injury in preterm and term neonates

14.50-15.00 *Questions and Answers*

15.00-15.50 Congenital brain anomalies, CNS infections and miscellaneous

15.50-16.00 *Questions and Answers*

16.00-17.00 Test - Cases for you

WEDNESDAY, 17 March 2027

Morning

Prof. Sebastian Tschauner

US imaging of the urogenital tract in neonates and infants (First part)

09.00-09.30 A reliable urinary tract ultrasound

09.30-09.40 *Questions and Answers*

09.40-10.10 Congenital kidney abnormalities and cystic patterns

10.10-10.20 *Questions and Answers*

10.20-10.50 Urinary tract dilatation and obstruction

10.50-11.00 *Questions and Answers*

11.00-11.30 Urinary tract infection and vesicoureteral reflux

11.30-11.40 *Questions and Answers*

11.40-12.10 Acquired renal disease involving parenchyma and perfusion

12.10-12.20 *Questions and Answers*

12.20-12.50 Imaging decisions for stones masses and trauma

12.50-13.00 *Questions and Answers*

13.00-14.00 BREAK

Afternoon

Prof. Alan Daneman

US Imaging of the Neonatal Abdomen (First part)

14.00-14.30 Advantages and disadvantages of POCUS and the need to optimize sonographic techniques in neonates

14.30-14.40 *Questions and Answers*

14.40-15.30 Comprehensive US evaluation of the neonatal gastrointestinal tract: emphasis on necrotizing enterocolitis

15.30-15.40 *Questions and Answers*

15.40-16.30 Comprehensive US evaluation of the neonatal gastrointestinal tract: emphasis on midgut rotation and other causes of obstruction

16.30-16.40 *Questions and Answers*

THURSDAY, 18 March 2027

Morning

Dr Antonio La Torre

09.00-09.45 Quality Assurance and Safety in US

09.45-09.55 *Questions and Answers*

Prof. Sebastian Tschauner

US imaging of the urogenital tract in neonates and infants (Second part)

09.55-10.30 Genital ultrasound in infancy and selected emergencies

10.30-10.40 *Questions and Answers*

10.40-11.10 POCUS in paediatric nephrology

11.10-11.20 *Questions and Answers*

11.20-12.30 Interactive cases and Course summary

12.30-12.40 *Questions and Answers*

12.40-14.00 BREAK

Afternoon

Prof. Alan Daneman

US Imaging of the Neonatal Abdomen (Second part)

14.00-14.50 US evaluation of the biliary tract, liver, spleen and adrenals in neonates

14.50-15.00 *Questions and Answers*

15.00-15.45 Neonatal and pelvic masses: US evaluation and relationship to CT and MR

15.45-15.55 *Questions and Answers*

15.55-17.00 Interesting cases

Dr. Antonio La Torre

17.00 Closing of the Course