

# 2022 Neonatal Ultrasound Course. Why, how and when an ultrasound image?

**Webinar Course, 21-23 March 2022**

## **PROGRAMME**

### **DIRECTOR**

**Dr. Antonio La Torre**

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

# MONDAY, 21 March 2022

## Morning

### Dr. Antonio La Torre

09.15-09.45 Introduction to the Course

09.45-10.05 The Corner of US Physics:  
what is useful to remember? (part 1)

10.05-10.25 The Corner of US Physics:  
what is useful to remember? (part 2)

10.25-10.35 Tests and Questions

### Dr. Eoghan Laffan

## US imaging of Neonatal Chest

10.35-11.20 Neonatal Chest US

11.20-11.30 Tests and Questions

11.30-12.15 Neonatal Lung US

12.15-12.30 Tests and Questions

12.30-13.30 *BREAK*

## Afternoon

### Prof. George A. Taylor

## US imaging of Neonatal Brain (First Part)

13.30-14.10 Basic Scanning Technique

14.10-14.20 Tests and Questions

14.20-15.00 Normal Development and variants

15.00-15.10 Tests and Questions

15.10-16.00 Advanced Scanning Approaches & Techniques

16.00-16.10 Tests and Questions

16.10-17.00 Introduction to Doppler Cerebral Hemodynamics

17.00-17.10 Tests and Questions

# TUESDAY, 22 March 2022

## Morning

### Dr. Antonio La Torre

09.30-09.50 The Corner of US Physics:  
what is useful to remember? (part 3)

09.50-10.00 Tests and Questions

10.00-10.20 Quality Assurance and Safety in US

10.20-10.30 Tests and Questions

### Dr. Eoghan Laffan

## US Imaging of Neonatal Spine, Small Parts and other uses for US

10.30-11.10 Neonatal Spine US

11.10-11.20 Tests and Questions

11.20-12.00 Small Parts and other uses for US

12.00-12.10 Tests and Questions

12.10-13.30 *BREAK*

## Afternoon

### Prof. George A. Taylor

## US imaging of Neonatal Brain (Second Part)

13.30-14.10 The spectrum of Brain Injury with Advancing  
Gestational Age

14.10-14.20 Tests and Questions

14.20-15.00 Anatomic and Hemodynamic Evaluation of  
Hydrocephalus

15.00-15.10 Tests and Questions

15.10-16.00 Posterior Fossa: Normal and Pathologic  
Findings

16.00-16.10 Tests and Questions

16.10-17.00 Instructive Cases & Discussion

WEDNESDAY, 23 March 2022

**Dr. Eoghan Laffan**  
**Prof. Alan Daneman**

US imaging of the urogenital tract in neonates and infants

Morning

**Dr. Eoghan Laffan**

- 09.30-10.10 Introduction to technique, normal findings and congenital variants
- 10.10-10.20 Tests and Questions
- 10.20-11.00 Congenital Anomalies of the Urogenital Tract
- 11.00-11.10 Tests and Questions
- 11.10-11.50 Other Conditions of the Urogenital Tract
- 11.50-12.00 Tests and Questions

**Prof. Alan Daneman**

- 12.00-12.30 Sonography of the renal parenchyma and renal vessels in Neonates
- 12.30-12.40 The movie of a Kidney US exam
- 12.40-12.50 Tests and Questions
- 12.50-13.30 *BREAK*

WEDNESDAY, 23 March 2022

Afternoon

**Prof. Alan Daneman**

US imaging of the urogenital tract in neonates and infants

- 13.30-14.00 Optimizing US technique for imaging the neonatal abdomen and pelvis
- 14.00-14.10 Tests and Questions
- 14.10-14.40 US of the neonatal gastrointestinal tract: obstructions and other anomalies
- 14.40-14.50 Tests and Questions
- 14.50-15.20 US of neonatal necrotizing enterocolitis: US appearances, classifications and pitfalls
- 15.20-15.30 Tests and Questions
- 15.30-16.00 US of neonatal Adrenal, Pancreas, Biliary tract, Liver and Spleen
- 16.00-16.10 Tests and Questions
- 16.10-16.40 US of neonatal abdominal and pelvic masses
- 16.40-16.50 Tests and Questions
- 16.50-17.10 US of abdominal vessels catheters
- 17.10-17.20 Tests and Questions
- 17.20-17.30 Closing Remarks

# Lecturers

## Dr. Eoghan Laffan

Department of Radiology,  
Children's Hospital Ireland at Crumlin, Dublin, Ireland

## Prof. Alan Daneman

Department of Diagnostic Imaging  
Hospital for Sick Children  
University of Toronto, Canada

## Prof. George A. Taylor

Department of Radiology  
Children's Hospital, Boston, USA

# 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
- In the practical session, imaging tests will be made to help participants understand many practical issues of diagnosis and the importance of ultrasound follow-up

## Ultrasound imaging of neonatal chest, spine and small parts

- To understand the technique of the exam which needs high Skill

## Ultrasound imaging of neonatal abdomen

- To understand limits and usefulness of gastrointestinal tract, liver, spleen and pancreas ultrasound imaging
- In the practical session, imaging tests will be made to help participants 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
- In the practical session, imaging tests will be made to help participants 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

The course will be held in webinar mode, it will be addressed to paediatricians, neonatologists, paediatric radiologists and sonographers.

Case discussions and tests will be included in the programme.

English is the official language.

## Registration fee

	by 15 February 2022	by 15 March 2022
Registration fee (VAT 22% included)	€ 470,00	€ 500,00

## Application

In order to submit your registration, please visit the website:

[web.aimgroupinternational.com/2022/ultrasound](http://web.aimgroupinternational.com/2022/ultrasound)

Registered participants will be sent a link to participate to the course.

## Cancellation

Cancellation must be sent in writing. In case of cancellation before **26 February 2022** a 75% refund of the participation fee will be provided.

After this date no refunds will be provided.

## Organizing Secretariat



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