



4TH INTRACARDIAC ECHOCARDIOGRAPHY COURSE IN PAEDIATRIC ELECTROPHYSIOLOGY

**21TH of NOVEMBER 2025
BARCELONA**

Directors:

**Dr Ferran Roses-Noguer , Dr Roman Gebauer,
Jaume Francisco**

4TH INTRACARDIAC ECHOCARDIOGRAPHY COURSE IN PAEDIATRIC ELECTROPHYSIOLOGY

INTRODUCTION

Catheter ablation of cardiac arrhythmias in paediatric and congenital heart disease patients frequently involves patients with complex cardiac structures. Therefore, 3D electro-anatomical mapping systems are essential tools to approach ablation procedures in paediatric patients to improve efficacy and reduce ionizing radiation exposure. Over the last few years, intracardiac ultrasound has been increasingly used in paediatric and congenital heart disease electrophysiology as it offers excellent visualization of the cardiac anatomy in real-time and allows direct visualization of the catheter during the ablation, improving the safety and efficacy of these procedures.

The primary learning objectives of this course are:

1. Learn technical aspects of the existing intracardiac ultrasound systems and how to configure them.
2. To study the basic intracardiac imaging views in paediatric patients with structurally normal hearts.
3. Understand the elemental planes of intracardiac ultrasound to perform a transseptal puncture.
4. Learn the planes to guide the ablation of right poster septal accessory pathways inside the coronary sinus and other challenging locations.
5. Show the utility of intracardiac ultrasound in catheter ablation of atrial tachycardia in patients with congenital heart disease.
6. Learn the basic views and essential anatomy in cases of ablations of ventricular tachycardia from the papillary muscles or the right moderator band.
7. Practice with intracardiac ultrasound simulators.

COURSE FORMAT

The course consists of 6,5 hours and will be held in the Paediatric Cardiology Department at the Vall d'Hebron University Campus in Barcelona.

The course will be offered to expert paediatric electrophysiology consultants around Europe.

Accreditation by the European Accreditation Council for Continuing Medical Education EACCME®, and endorsement by the AEPC Cardiac dysrhythmias and electrophysiology WG has been requested.

REGISTRATION

If you are interested in participating in this meeting, please send an email to Aula Vall d'Hebron: inscripciones@aulavallhebron.cat

ATTENDEES

This course has been designed for paediatric electrophysiology consultants who want to broaden their expertise with intracardiac ultrasound in the EP Lab.

It will be limited to a maximum of 8 attendees, and the practical sessions will be organized in groups of 4 assistants per simulator.

VENUE

Sala d'actes planta 0
Hospital Infantil.
Hospital de la dona
Passeig Vall d'Hebron, 119 – 129
08035 Barcelona



SECRETARIAT

Aula Vall d'Hebron – inscripciones@aulavallhebron.cat – 693785436

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COURSE PROGRAM

FRIDAY, 21TH OF NOVEMBER

08:00 - 08:30 Welcome and Introduction.

08:30 - 09:30 Introduction to the different intracardiac ultrasound systems and their technical details.

09:30 - 10:00 Basic planes and Anatomic correlation cardiac structures

Dr. Roman Gebauer

10:00 -10:30 Basic planes of intracardiac ultrasound using a hands on simulator

Dr. Ferran Roses-Noguer

10:30 - 11:30 **Coffee break**

11:30- 11:30 Stepwise approach for transseptal puncture with intracardiac ultrasound and minimal fluoroscopy. *Dr Jaume Francisco*

11:30 -13:30 Workshop with simulators with intracardiac ultrasound systems.

Dr. Ferran Roses-Noguer, Dr. Jaume Francisco, Dr Roman Gebauer

13:30 - 14:30 **Lunch**

14:30 -15:30 Cases showing the use of intracardiac ultrasound in ablation of paediatric patients with atrial tachycardias, accessory pathways and atrioventricular nodal reentry tachycardia. *Dr. Ferran Roses-Noguer and Dr. Jaume Francisco.*

15:30 - 16:00 **Coffee break**

16:00 - 17:00 Challenges using the simulators with intracardiac ultrasound systems.

Dr. Ferran Roses-Noguer, Dr. Jaume Francisco, Dr Roman Gebauer

17:00 - 17:30 Final comments and evaluation survey.

Program Speakers:

Dr. Ferran Roses-Noguer, MD, PhD

Lead of the Paediatric Cardiology Service. Paediatric and Congenital Elecophysiology Consultant. Vall d'Hebron University Hospital, Barcelona, Spain.

Dr. Roman Gebauer, MD

Dpt. of Paediatric Cardiology, Paediatric and Congenital Electrophysiology, Heart Centre Leipzig, University of Leipzig, Germany.

Dr Jaume Francisco, MD

Cardiac Electrophysiology Consultant. Vall d'Hebron University Hospital, Barcelona, Spain.



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