

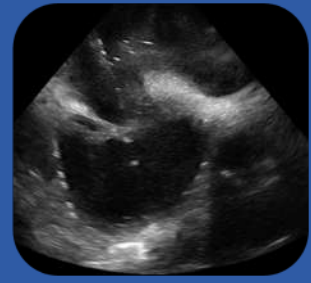
# 3rd INTRACARDIAC ECHOCARDIOGRAPHY COURSE IN PAEDIATRIC ELECTROPHYSIOLOGY

31<sup>st</sup> January 2025

Vall d'Hebron University Hospital  
Barcelona

DIRECTORS:

Dr. Ferran Roses-Noguer and Dr. Roman Gebauer



### 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 Pediatric Cardiology Department at the Vall d'Hebron University Campus in Barcelona.

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

### ACCREDITATION:

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

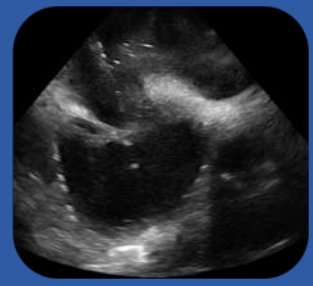
### REGISTRATION:

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



## COURSE PROGRAM AGENDA

- 08:00-08:30** Welcome and Introduction
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- 08:30-09:30** **Introduction to the different intracardiac ultrasound systems and their technical details**  
*Dr. Ferran Roses-Noguer*
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- 09:30-10:00** **Basic planes and Anatomic correlation cardiac structures**  
*Dr. Roman Gebauer*
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- 10:30-11:00** Coffee break
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- 11:00-11:30** **Stepwise approach for transeptal puncture with intracardiac ultrasound and minimal fluoroscopy.**  
*Dr Jaume Francisco*
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- 11:30-13:30** **Workshop with simulators with intracardial ultrasound systems**  
*Dr. Ferran Roses-Noguer, Dr. Jaume Francisco, Dr. Roman Gebauer, Dra Andrea Bueno.*
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- 13:30-14:30** Lunch
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- 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*
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- 15:30-16:00** Coffee break
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- 16:00-17:00** **Challenges using the simulators with intracardial ultrasound systems.**  
*Dr. Ferran Roses-Noguer, Dr. Jaume Francisco, Dra. Andrea Bueno, Dr. Roman Gebauer*
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- 17:00-17:30** Final comments and evaluation survey.