

CRT in Paediatric and Congenital Heart Disease: A Practical Guide to Diagnosis, Indication and Implementation



European Reference Network

for rare or low prevalence
complex diseases

 **Network**
Heart Diseases
(ERN GUARD-HEART)

 **Member**
Motol University
Hospital — Czechia

- **DATE**
Prague, November 14-15, 2025
- **COURSE DIRECTOR**
Prof. Jan Janoušek, MD, PhD
- **LOCATION**
Children's Heart Centre (dětské
kardiocentrum), Univ. Hosp. Motol
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Friday, November 14, 2025

10:00 – 17:00

Registration 9:30–10:00

10:00-10:10

Welcome

J. Janoušek

10:10-10:40	Heart failure in children – reasons, pathophysiology and therapeutic options <i>P. Srnková</i>
10:40-11:00	Heart failure with reduced ejection fraction (HFrEF): Guideline-directed medical therapy <i>J. Bonaventura</i>
11:00-11:20	Ventricular dyssynchrony causing HFrEF – basic principles <i>J. Janoušek</i>
11:20-11:40	Cardiovascular modelling of ventricular dyssynchrony <i>M. Ložek / J. Janoušek</i>
11:40-12:00	Electrical imaging using ultra-high frequency ECG <i>R. Smíšek</i>
12:00-12:20	Practical applications of UHF ECG in dyssynchronous heart failure in congenital heart disease <i>J. Fumanelli</i>
Lunch break 12:20-13:30	
13:30-14:00	New methods of functional echocardiographic imaging <i>GE Healthcare</i>
14:00-14:20	Practical approach to conventional echocardiographic imaging in ventricular dyssynchrony <i>J. Kovanda</i>
14:20-14:40	Practical approach to advanced echocardiographic imaging in ventricular dyssynchrony <i>J. Kovanda</i>
14:40-15:00	Non-invasive assessment of myocardial work in dyssynchrony <i>J. Fumanelli</i>
15:00-15:20	Temporary CRT for treatment of low cardiac output in the ICU <i>T. Tavačová</i>
Coffee break 15:20-15:40	

15:40-16:10	Permanent CRT in congenital heart disease: Indications, technical aspects and results <i>J. Janoušek</i>
16:10-16:30	Surgical approach to permanent CRT in congenital heart disease <i>R. Poruban</i>
16:30-16:50	Conduction system pacing as an alternative to classical CRT <i>K. Čurila</i>
16:50-17:00	Q & A

Saturday, November 15, 2025

9:00 – 13:00

9:00-13:00

Case-based Interactive Session

Case-based interactive session on imaging, indication and techniques in CRT

JJ, JF, JK, support by GE

Children's Heart Centre
University Hospital Motol, Prague