



**THORAX
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TWEENTE**

Boston
Scientific

Analyzing electrograms from RV and LV structures:
relation with anatomy, embryology and arrhythmias



November 9-10th Nov, 2018
MST Enschede, Netherlands

EDUCARE



Analyzing electrograms from RV and LV structures: *relation with anatomy, embryology and arrhythmias*

Purpose of the course

Purpose of the course is to provide the participants with insight in the relation between anatomy, embryology, arrhythmias and electrograms of various structures in the right and left ventricle. Final goal is to learn appropriate techniques of electrogram analysis for optimal treatment of ventricular arrhythmias .

Location:

Medisch Spectrum Twente, Enschede, Netherlands

Date:

November 9-10th , 2018

Faculty:

Prof dr. Jacques de Bakker, AMC Amsterdam

Dr. Ruben Coronel, AMC Amsterdam

Dr. Bas Boukens, AMC Amsterdam

Dr. Chantal Conrath, AMC Amsterdam

Dr. Veronique Meijborg, AMC Amsterdam

Dr. Karen McCarthy, Royal Brompton Hospital London & NHLI, Imperial College London

Dr. Pascal van Dessel, MST Enschede

Dr. Jurren van Opstal, MST Enschede

Accreditation & registration:

Accreditation has been requested from the Dutch Society of Cardiology (NVVC)

To register:

Contact your local Boston Scientific representative or send an email to

robert.huisman@bsci.com

Participants who will most benefit:

- Experienced EP's with major interest in Cardiac Heart Rhythm Management
- EP Fellows

Analyzing electrograms from RV and LV structures: *relation with anatomy, embryology and arrhythmias*

Day 1

| | | |
|---------------|--|-------------------|
| 9.00 – 9.50 | Registration and coffee | |
| 9.50 – 10.00 | Introduction | Pascal van Dessel |
| 10.00 – 10.45 | Basics of electrogram analysis | Jacques de Bakker |
| 10.45 – 11.30 | Anatomy of the right and left ventricle, fiber direction and in/outflow tract areas | Karen McCarthy |
| 11.30 – 12.00 | Coffee break | |
| 12.00 – 12.45 | Embryology of inflow and outflow tract areas | Bas Boukens |
| 12.45 – 14.00 | Lunch | |
| 14.00 – 14.45 | Idiopathic ventricular tachycardias arising from the free wall and in/outflow tract regions | Pascal van Dessel |
| 14.45 – 15.30 | Anatomy of papillary muscles, the specific conduction system, and aberrant pathways | Karen McCarthy |
| 15.30 – 16.00 | Coffee break | |
| 16.00 – 16.45 | Embryology of the specific conduction system and aberrant pathways | Bas Boukens |
| 16.45 – 17.30 | Clinical arrhythmias arising from papillary muscles, the conduction system and accessory pathways | Chantal Conrath |
| 19.00 | Group diner at hotel | |

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Day 2

8.00 – 8.30 Breakfast at Hotel

8.30 – 9.00 Registration and coffee

Practical framework session I

For different structures of the ventricles, electrogram morphology and arrhythmias that may arise at these structures are combined to a practical framework. Questions about signal analysis of electrograms recorded from the structures will be presented to and discussed with the audience.

9.00 – 9.45 **Extracellular electrograms related to anisotropy, asynchronous activation and abnormal activity in apparently normal myocardium** Jacques de Bakker
Jurren van Opstal

9:45 – 10.30 **Extracellular electrograms related to activation in the inflow and outflow tract regions** Jacques de Bakker
Jurren van Opstal

10.30 – 11.00 Coffee break

11.00 – 11.45 **Extracellular electrograms related to papillary muscles, the specific conduction system and aberrant bundles** Jacques de Bakker
Jurren van Opstal

Practical framework session II

This part of the practical framework uses computer simulations with ECGSIM, which is an interactive simulation program of the electrophysiology of the human heart that can be used as an educational and research tool. Various electrophysiological parameters will be modeled and the effect on electrogram morphology, conduction and repolarization discussed.

11.45 – 12.30 **Electrophysiology and electrograms of structural and electrical remodeled myocardium in acquired and genetic cardiac diseases.** Ruben Coronel
Veronique Meijborg

12.30 – 13.30 Lunch