

Clinical Anatomy of the Heart for Successful Arrhythmia Treatment

21st May 2027 &

19th October 2027

Herz- und Diabeteszentrum NRW
Bad Oeynhausen

HDZ NRW

Welcome to our one-day course on

„Clinical Anatomy of the Heart for Successful Arrhythmia Treatment“

This specialized anatomical workshop has been meticulously designed to offer electrophysiologists a profound integration of cardiac anatomy with cardiac electrophysiology and different procedural techniques. The programme goes beyond traditional anatomical and morphological courses. Almost all lectures in our programme will be interactive and showcased on dual screens. Clinical imaging, including electrograms, maps, X-rays, and more, will seamlessly be complemented by a live video demonstration of plastinated specimens. The programme provides not only anatomical and morphological insights but also „anatomical answers for EP questions“ and address „anatomical answers for technical questions“ related to different procedures with various devices. Moreover, we aim to improve the skills necessary to place catheters and balloons during ablation procedures. In addition, this course provides specific hands-on dissection with porcine hearts, aimed at better understanding tissue characteristics during positioning and placement of different catheters and leads.
Join us to elevate your expertise and improve your clinical practice in interventional arrhythmia treatment.

Maxim Didenko, M.D.
Medtronic Academy EurAsia

Guram Imnadze, M.D.
Director, Clinic A - Rhythmology
University Hospital Ruppin-Brandenbrug

Philipp Sommer, M.D.
Director, Department of Electrophysiology
HDZ NRW

Programme

Session 1. Radiological anatomy and anatomy for SVT / AFL
P. Sommer, M. Didenko, G. Imnadze

9:00 h
Welcome note

9:05 h
Programme overview and objectives of the course

9:10 h
Embryology and radiological anatomy of the heart, ECG vectors

Case-based lectures with simultaneous live video demonstrations of anatomical specimens

9:30 h
How to ablate slow pathways successfully and safely in AVNRT

10:00 h
Difficulties in accessory pathway ablation in WPW syndromes

10:30 h
Anatomical correlates with EGMs, mapping and block confirmation in CTI-dependent atrial flutter, anatomical difficulties during CTI ablation

11:00 h Coffee break

Session 2: Anatomy for AF ablation
M. Didenko, G. Imnadze

11.30 h
Tips and tricks for safe transseptal puncture. Anatomy of FO and IAS.

12:00 h
Tips and tricks for PVI with different technologies. Anatomical correlates with techniques of difficult spot ablation, and differentiation of far-field EGM from PV spikes.

12:30 h
Anatomical correlates for persistent and long-standing persistent atrial fibrillation ablation. Non-CTI dependent AFL, non-PV triggers, a vein of Marshall, etc.

13:00 h Lunch break

Session 3: Anatomy for VT/PVCs ablation and conduction system pacing
M. Didenko, G. Imnadze

14:00 h
Anatomy for outflow tract VT/PVCs ablation

14:30 h
Anatomy for non-outflow tract VT/PVCs ablation

15:00 h Coffee break

Session 4: Hands-on workshop
M. Didenko, G. Imnadze, P. Sommer

15:30 h
Interactive hands-on anatomical workshop with dissection and live video demonstration (Porcine Heart)

Questions and discussion

16:30 h End of course

Important information

Registration fee
€ 200,-- incl. VAT

Organized by
Department of Electrophysiology
Herz- und Diabeteszentrum Nordrhein-Westfalen
University Hospital of the Ruhr-Universität Bochum

Academic Lead
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Philipp Sommer, HDZ NRW
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Venue
Auditorium at Herz- und Diabeteszentrum NRW
Georgstr. 11, D-32545 Bad Oeynhausen

Organisation and registration (mail)
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CME certification
Participants will receive 8 CME credit points.

The meeting will take place under the auspices of the

HDZ NRW: Medical Competence and Human Understanding

The Herz- und Diabeteszentrum Nordrhein-Westfalen (HDZ NRW), Bad Oeynhausen, is a leading international center for the treatment of cardiac, vascular and diabetic diseases. Since 1989, the HDZ NRW has been a university hospital of the Ruhr-University Bochum. The HDZ NRW professorate has also been a member of the Medical Faculty OWL at the University of Bielefeld since 2023.

Five university clinics and three university institutes have been working together under one roof for more than 30 years. Interdisciplinary collaboration, paired with state-of-the-art high-performance medicine, ensures that patients receive the best possible treatment promising the highest possible quality of life in the long term, always with a human focus. Outstanding nursing quality is achieved through established standards on the basis of scientific expertise, as well as a quality-oriented concept for training, further training and advanced training.

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