MAP application course information

This document outlines the information to be included on each course within the MAP application.

# Contents

[CRT COURSES 2](#_Toc393804128)

[Virtual CRT hospital 2](#_Toc393804129)

[Implant Skills Builder Part II - Module 8: Experts in CRT - Challenging Cases 3](#_Toc393804130)

[Live implants with experts 4](#_Toc393804131)

[The simulated implant 5](#_Toc393804132)

[CRT follow-up clinic 6](#_Toc393804133)

[Challenges in CRT follow-up Masters 7](#_Toc393804134)

[Principles and practice of CRT 8](#_Toc393804135)

[ICD COURSES 9](#_Toc393804136)

[ICD principles in clinical practice 9](#_Toc393804137)

[Overcoming challenges in ICD follow-up 10](#_Toc393804138)

[Leads Extraction: A Step by Step Training Program 11](#_Toc393804139)

[Live implants with experts 12](#_Toc393804140)

[The simulated implant 13](#_Toc393804141)

[ICD challenges 14](#_Toc393804142)

[PACEMAKER COURSES 15](#_Toc393804143)

[Overcoming challenges in pacemaker follow-up 15](#_Toc393804144)

[Pacemaker principles in clinical practice 16](#_Toc393804145)

[Leads Extraction: A Step by Step Training Program 17](#_Toc393804146)

[Live implants with experts 18](#_Toc393804147)

[The simulated implant 19](#_Toc393804148)

[Challenges in Brady follow-up 20](#_Toc393804149)

[ATRIAL FIBRILLATION COURSES 21](#_Toc393804150)

[Cryoballoon Training Program 1 21](#_Toc393804151)

[Cryoballoon Training Program 2 22](#_Toc393804152)

[Phased RF Physician CMC 23](#_Toc393804153)

[PVAC GOLD Experience – From Theory to Lesion Assessment 24](#_Toc393804154)

[EHRA COURSES 25](#_Toc393804155)

[EHRA – cardiac pacing, ICD and cardiac resynchronization 25](#_Toc393804156)

[ECG COURSES 26](#_Toc393804157)

[How to approach complex arrhythmias 26](#_Toc393804158)

# CRT COURSES

## Virtual CRT hospital

Objectives

For trainees to acquire or improve skills in order to safely and successfully perform all the key tasks in the care pathway of CRT-eligible patients.

After completing this course, the participant will be able to:

* Decide whether the patient should be referred for CRT
* Indicate which devices the patient may benefit from
* Perform an LV lead implant procedure successfully
* Apply the appropriate device programming and discharge recommendations according to the status of the patient
* Evaluate device diagnostics remotely and decide whether to and how to treat the patient in a remote monitoring alert condition.

Audience details

* CRT beginners and limitedly experienced CRT implanters, but with significant experience in Pacemaker and ICD implants (at least 100 IPG/ICD implants performed as first operator).

Faculty

* Two electrophysiologists for two days.
* Plus a third electrophysiologist on day 2.

Course overview

* This course will take place in a revolutionary training environment by recreating clinical situations that participants will face in daily clinical practice.
* Virtual patients with real stories will be followed along the whole CRT care pathway.
  + From evaluation and treatment decision, through to implant procedure, discharge and remote management.
* Coached by the world-leading CRT experts, trainees will acquire analysis, judgment and intervention skills through sequential hands-on clinical workshops.
  + Supported by the most advanced simulation technologies and interactive tools.
* At the end of this programme, participants will be able to apply what they have learnt at their own hospital to optimise treatment and patient responses to CRT.

Available dates (region; country; location)

* 03-04 Dec 2014 (Europe; Switzerland; Tolochenaz)
* 25-26 March 2015 (Europe; Switzerland; Tolochenaz)

## Implant Skills Builder Part II - Module 8: Experts in CRT - Challenging Cases

Objectives

After completing this course, the participant will be able to:

* Employ advanced CRT implantation techniques when challenging cases arise
* Discuss new and evolving indications for CRT
* Explain the echocardiographic process for the evaluation of heart failure patients
* Describe the latest advances in device therapies, leads, and delivery systems
* Optimize the management of patients with heart failure through device-based fluid accumulation monitoring (OptiVol).

Audience details

* This program is designed for physicians with previous CRT implant experience – at least 10 CRT implants.

Faculty

* Peer to Peer training by leading CRT implanters.

Course overview

* This course will allow experienced implanters who have requested further instruction on procedural CRT techniques, to review and discuss challenging cases presented by the expert faculty.
* The program format is designed to allow a high degree of interaction between participants and the faculty.
* Participants are encouraged to bring their own case studies for discussion (during or post-implant).
* The course also provides an update on the latest topics related to CRT, echocardiographic evaluation, as well as the opportunity to perfect implantation techniques in the Virtual CathLab.

Available dates (region; country; location)

* TBC

## Live implants with experts

### Objectives

After completing this course, the participant will be able to:

* Perform (under direct supervision) all the steps required in performing a pacemaker and defibrillator implant procedure
* Anticipate, identify and deal with the most common implant complications.

Audience details

* Cardiologists, surgeons and electro-physiologists who have very limited or no experience in device implantation, but want to develop skills in implanting pacemakers, defibrillators and resynchronization systems.

Faculty

* Highly experienced, well recognized European implanting physicians.

Course overview

* This course will give you an opportunity to perform implantations on adult patients in one of Europe’s top implant institutions under the direct supervision of some of the world-leading implantation physicians.
* With a maximum of two trainees per course, participants will stay for five days at an Implant Training Centre within the Europe-wide Medtronic-Partner Training network.
  + These centres have vast experience in training and are equipped for allocating the staff and time required for this initiative.
* Under the direct supervision of highly respected physicians with implanting experience of at least 500 devices, you will perform a pacemaker implants in adult patients.

Available dates (region; country; location)

* 2-6 March 2015
* 9-13 March 2015

(At selected European hospitals)

## The simulated implant

### Objectives

After completing this course, the participant will be able to:

* Describe cardiac structures, appropriate pacing sites and placement issues
* Identify important anatomical landmarks in X-rays
* Describe surgical contraindications and situations that require surgical involvement
* Discuss practical aspects of local/general anaesthesia for device implantation and general anaesthesia versus sedation for ICD testing
* Perform all steps of a device implantation from patient preparation and scrubbing, to wound closure and post-implant recommendations to the patient
* Prevent, identify and correct complications related to the venous access, passage to the   
  lead-myocardial interphase or to the device pocket.

Audience details

* Cardiologists, surgeons and electro-physiologists who have very limited or no experience in device implantation, but want to develop skills in implanting pacemakers, defibrillators and resynchronization systems.

Faculty

* Highly experienced and well recognized European implanting physicians and Medtronic trainers.

Course overview

* With instruction by highly experienced, well recognized implanting physicians, you will learn and practice every step of the pacemaker and defibrillator implantation procedure from scrubbing to wound closure.
* You will also learn how to anticipate, identify and correct the most common implant complications.
* Using state-of-the-art lead implantation simulators, heart models, venous access simulators and other surgical simulation, you can safely learn, practice and repeat the procedure over and over to fine-tune your technique – without unnecessary risk for yourself or for the patient.
* Following the course, you will be prepared for your first supervised *in vivo* experiences in humans.

Available dates (region; country; location)

* 18-19 Feb 2015 (Europe; Switzerland; Tolochenaz)

## CRT follow-up clinic

Objectives

After completing this course, the participant will be able to:

* Identify clinical responses to CRT
* Identify whether CRT is applied effectively
* Recognise the most common complications related to CRT devices and manage them appropriately
* Use the CRT device diagnostics to assess the clinical condition of the patient
* Suggest echo evaluation steps for patients who are not responding to treatment
* Program the CRT device for optimal clinical outcomes
* Recommend additional corrective actions that cannot be fixed by device reprogramming.

Audience details

* Experienced clinicians involved in CRT device follow-up and HF management with a desire to further develop their patient management skills for immediate application in the clinical environment.
* 6 months of practical experience in managing patients implanted with Medtronic CRT devices.
* To really benefit from this experience, it is essential that you have assimilated the theory and developed the fundamental skills through previous courses and experience.

Faculty

* Practitioners highly experienced in patient management and device follow-up.

Course overview

* This 2 day course will teach a structured approach to conduct a quick and safe follow-up of patients implanted with CRT devices.
* It will focus on the clinical and technical evaluation of aspects specific to patients implanted with CRT devices.
* Clinical exercises and stimulation sessions will constitute the main body of the programme.

Available dates (region; country; location)

* 08-09 Jan 2015 (MENA; TBC)
* 19-20 Feb 2015 (MENA; TBC)
* 25-26 Feb 2015 (Europe; Switzerland; Tolochenaz)

## Challenges in CRT follow-up Masters

Objectives

* XXXX

Audience details

* XXXX

Faculty

* XXXX

Course overview

* XXXX

Available dates (region; country; location)

* TBC

## Principles and practice of CRT

Objectives

* XXXX

Audience details

* XXXX

Faculty

* XXXX

Course overview

* XXXX

Available dates (region; country; location)

* TBC

# ICD COURSES

## ICD principles in clinical practice

Objectives

After completing this course, the participant will be able to:

* Select patients for ICD therapy, taking the latest guidelines into consideration
* Select the optimal device therapy for an individual patient based on indications and clinical situation
* Select the appropriate ICD detection and therapy settings with respect to patient profile and needs
* Successfully configure SVT detection criteria to differentiate ventricular tachycardia from supra ventricular tachycardia
* Perform ICD follow-up, troubleshooting and programming optimization in daily clinical practice
* Interpret device diagnostic data and apply this information in patient management.

Audience details

* Physicians getting involved in implanting ICD and/or the follow-up of ICD patients.
* Physicians experienced in indicating, implanting the follow-up of patients, who want to expand their knowledge and skills.
* Physicians who are interested in getting a comprehensive overview of ICD therapy in current clinical practice.

Faculty

* The faculty members are internationally renowned and recognized experts in electrophysiology, clinical cardiology and research, ensuring the highest level of education.

Course overview

* This course will provide an in-depth overview of 'state-of-the-art' ICD therapy including latest guidelines, indications and implant considerations.
* Using case studies and hands-on workshops, the practical and clinical aspects of follow-up, programming optimization and troubleshooting will be presented and discussed.
* The latest guidelines and clinical trials and their impact on patient and device selection will be presented in a case-based format with audience participation.

Available dates (region; country; location)

* 11-12 Dec 2014 (MENA; TBC)
* Upon request (Europe; Switzerland; Tolochenaz)

## Overcoming challenges in ICD follow-up

Objectives

After completing this course, the participant will be able to ensure optimal ICD therapy by:

* Assessing effectiveness of the device therapy
* Tailoring device programming based on clinical status and device diagnostics
* Monitoring disease-progression with device diagnostics
* Respond to arrhythmic episodes through prompt and effective troubleshooting
* Evaluate type and cause of episodes/arrhythmias
* Be able to determine which actions need to be taken based on device diagnostics and current device programming
* Respond to complications through prompt and effective troubleshooting
* Ensure an efficient patient follow-up while maintaining safety
* Effective navigation on the 2090 programmer.

Audience details

* Medical Professionals in charge of ICD device follow-up and ICD patient management with a desire to further develop their patient management skills for immediate application in the clinical environment.
* The participant should have:
  + At least 6 month of experience in conducting ICD and IPG follow up.
  + Solid knowledge of:
    - Pacing system and troubleshooting
    - Clinical benefits of ICD therapy and device algorithms
    - ICD indication and patient selection
    - Basic ICD troubleshooting.

Faculty

* The faculty members are internationally renowned and recognized experts in electrophysiology, clinical cardiology and research, ensuring the highest level of education.

Course overview

* This course will provide an in-depth overview of 'state-of-the-art' ICD therapy, including high level troubleshooting.
* Case studies plus the practical and clinical aspects of follow-up, programming optimization and troubleshooting will be presented and discussed.

Available dates (region; country; location)

* 29-30 Jan 2015 (MENA; TBC)
* 12-13 Mar 2015 (MENA; TBC)
* 04-05 Mar 2015 (Europe; Switzerland; Tolochenaz)

## Leads Extraction: A Step by Step Training Program

Objectives

During this course, the participant will learn:

* Clinical indications to be managed in patients with lead-related problems
* How to prepare the operating room and to train staff involved in supporting the lead extraction procedure
* The perioperative management of transvenous lead extraction
* The tools, techniques and approaches (including the Pisa approach) involved in lead extraction
* Venous approaches to lead extraction and what drives the decision for which approach should be adopted, when and how
* How to manage lead extraction complications (procedure-related and post-operative), including treatment and prevention.

Audience details

* Physicians interested in learning the different aspects related to the proper management of patient affected by lead related problems and physicians interested in learning the lead extraction procedure
* The opportunity is also available to participate in a one week course in the hospital to learn the procedure

Faculty

Professa Maria Grazia Bongiorni; Dr Ezio Soldati; Dr Giulio Zucchelli; Dr Luca Segreti; Dr Andrea Di Cori; Dr Luca Paperini; Dr Stefano Viani; Dr Adriano Boem; Dr Raffaele De Lucia.

Course overview

* With a million people having received implantable pacemakers, cardioverter defibrillator or biventricular devices around the world, much of the major long-term morbidity associated with these devices is related to the leads, including infectious and vascular complications.
* Transvenous lead extraction is the core technique central to the treatment of these device complications, a key element to the successful treatment and improved quality of life for these patients.
* This session offers participants high quality training to approach, manage or recommend these situations and patients.
* Participants will also observe LIVE procedure (typically three procedures).

Available dates (region; country; location)

* TBC

## Live implants with experts

### Objectives

After completing this course, the participant will be able to:

* Perform (under direct supervision) all the steps required in performing a pacemaker and defibrillator implant procedure
* Anticipate, identify and deal with the most common implant complications.

Audience details

* Cardiologists, surgeons and electro-physiologists who have very limited or no experience in device implantation, but want to develop skills in implanting pacemakers, defibrillators and resynchronization systems.

Faculty

* Highly experienced, well recognized European implanting physicians.

Course overview

* This course will give you an opportunity to perform implantations on adult patients in one of Europe’s top implant institutions under the direct supervision of some of the world-leading implantation physicians.
* With a maximum of two trainees per course, participants will stay for five days at an Implant Training Centre within the Europe-wide Medtronic-Partner Training network.
  + These centres have vast experience in training and are equipped for allocating the staff and time required for this initiative.
* Under the direct supervision of highly respected physicians with implanting experience of at least 500 devices, you will perform a pacemaker implants in adult patients.

Available dates (region; country; location)

* 2-6 March 2015
* 9-13 March 2015

(At selected European hospitals)

## The simulated implant

### Objectives

After completing this course, the participant will be able to:

* Describe cardiac structures, appropriate pacing sites and placement issues
* Identify important anatomical landmarks in X-rays
* Describe surgical contraindications and situations that require surgical involvement
* Discuss practical aspects of local/general anaesthesia for device implantation and general anaesthesia versus sedation for ICD testing
* Perform all steps of a device implantation from patient preparation and scrubbing, to wound closure and post-implant recommendations to the patient
* Prevent, identify and correct complications related to the venous access, passage to the   
  lead-myocardial interphase or to the device pocket.

Audience details

* Cardiologists, surgeons and electro-physiologists who have very limited or no experience in device implantation, but want to develop skills in implanting pacemakers, defibrillators and resynchronization systems.

Faculty

* Highly experienced and well recognized European implanting physicians and Medtronic trainers.

Course overview

* With instruction by highly experienced, well recognized implanting physicians, you will learn and practice every step of the pacemaker and defibrillator implantation procedure from scrubbing to wound closure.
* You will also learn how to anticipate, identify and correct the most common implant complications.
* Using state-of-the-art lead implantation simulators, heart models, venous access simulators and other surgical simulation, you can safely learn, practice and repeat the procedure over and over to fine-tune your technique – without unnecessary risk for yourself or for the patient.
* Following the course, you will be prepared for your first supervised *in vivo* experiences in humans.

Available dates (region; country; location)

* 18-19 Feb 2015 (Europe; Switzerland; Tolochenaz)

## ICD challenges

Objectives

* XXXX

Audience details

* XXXX

Faculty

* XXXX

Course overview

* XXXX

Available dates (region; country; location)

* TBC

# PACEMAKER COURSES

## Overcoming challenges in pacemaker follow-up

Objectives

After completing this course, the participant will be able to:

* Identify signs and/or symptoms that might be device-related
* Recognise the most common complications related to pacemaker systems and manage appropriately
* Use the device diagnostics to assess the clinical condition of the patient
* Program the device for optimal clinical outcomes
* Recommend additional corrective actions that cannot be fixed by reprogramming the device.

Audience details

* Experienced clinicians involved in device follow-up clinics with a desire to further develop their patient management skills for immediate application in the clinical environment.
* 6 months of practical experience in managing patients implanted with Medtronic pacemakers.
* To really benefit from this experience, it is essential that you have assimilated the theory and developed the fundamental skills through previous courses and experience.

Faculty

* Dr Oliver Przibille
* Denise Quinn

Course overview

* This 2-day course will teach a structured approach to conduct a quick and safe follow-up of patients implanted with pacing systems.
* It will focus on the clinical and technical evaluation of aspects common to patients implanted with IPGs, ICDs and CRT devices.
* Clinical exercises and simulation sessions will constitute the main body of the programme.

Available dates (region; country; location)

* 18-19 March 2015 (Europe; Switzerland; Tolochenaz)

## Pacemaker principles in clinical practice

Objectives

During this course, the participant will:

* Build the necessary technical knowledge of Medtronic pacemaker functions and their clinical benefits for the patient
  + Including management of AV conduction, atrial arrhythmias, chronotropic incompetence, and MRI compatibility
* Acquire the skills to perform basic pacemaker programming to optimize clinical outcomes
* Use the device diagnostics for basic assessment of the clinical condition of the patient and the technical status of the pacemaker system
* Attain a basic understanding of what telemedicine can offer in regards to remote follow-up.

Audience details

* Clinicians who are, or will be immediately involved, in device follow up clinics, and have the desire to develop their patient management skills for immediate application in clinical environment.
* Participants should be familiar with the basics of pacing (see pre-requisites).

Faculty

*<Information required if include>*

Course overview

* This 2-day course is a structured, introductory course to:
  + Conducting a basic but safe programming of pacemaker devices
  + Follow up of patients implanted with a pacemaker system.
* The course will focus on clinical and technical aspects throughout a series of theoretical and practical programming sessions with real programmers, case studies and patient simulators.

Available dates (region; country; location)

* TBC

## Leads Extraction: A Step by Step Training Program

Objectives

During this course, the participant will learn:

* Clinical indications to be managed in patients with lead-related problems
* How to prepare the operating room and to train staff involved in supporting the lead extraction procedure
* The perioperative management of transvenous lead extraction
* The tools, techniques and approaches (including the Pisa approach) involved in lead extraction
* Venous approaches to lead extraction and what drives the decision for which approach should be adopted, when and how
* How to manage lead extraction complications (procedure-related and post-operative), including treatment and prevention.

Audience details

* Physicians interested in learning the different aspects related to the proper management of patient affected by lead related problems and physicians interested in learning the lead extraction procedure
* The opportunity is also available to participate in a one week course in the hospital to learn the procedure

Faculty

Professa Maria Grazia Bongiorni; Dr Ezio Soldati; Dr Giulio Zucchelli; Dr Luca Segreti; Dr Andrea Di Cori; Dr Luca Paperini; Dr Stefano Viani; Dr Adriano Boem; Dr Raffaele De Lucia.

Course overview

* With a million people having received implantable pacemakers, cardioverter defibrillator or biventricular devices around the world, much of the major long-term morbidity associated with these devices is related to the leads, including infectious and vascular complications.
* Transvenous lead extraction is the core technique central to the treatment of these device complications, a key element to the successful treatment and improved quality of life for these patients.
* This session offers participants high quality training to approach, manage or recommend these situations and patients.
* Participants will also observe LIVE procedure (typically three procedures).

Available dates (region; country; location)

* TBC

## Live implants with experts

### Objectives

After completing this course, the participant will be able to:

* Perform (under direct supervision) all the steps required in performing a pacemaker and defibrillator implant procedure
* Anticipate, identify and deal with the most common implant complications.

Audience details

* Cardiologists, surgeons and electro-physiologists who have very limited or no experience in device implantation, but want to develop skills in implanting pacemakers, defibrillators and resynchronization systems.

Faculty

* Highly experienced, well recognized European implanting physicians.

Course overview

* This course will give you an opportunity to perform implantations on adult patients in one of Europe’s top implant institutions under the direct supervision of some of the world-leading implantation physicians.
* With a maximum of two trainees per course, participants will stay for five days at an Implant Training Centre within the Europe-wide Medtronic-Partner Training network.
  + These centres have vast experience in training and are equipped for allocating the staff and time required for this initiative.
* Under the direct supervision of highly respected physicians with implanting experience of at least 500 devices, you will perform a pacemaker implants in adult patients.

Available dates (region; country; location)

* 2-6 March 2015
* 9-13 March 2015

(At selected European hospitals)

## The simulated implant

### Objectives

After completing this course, the participant will be able to:

* Describe cardiac structures, appropriate pacing sites and placement issues
* Identify important anatomical landmarks in X-rays
* Describe surgical contraindications and situations that require surgical involvement
* Discuss practical aspects of local/general anaesthesia for device implantation and general anaesthesia versus sedation for ICD testing
* Perform all steps of a device implantation from patient preparation and scrubbing, to wound closure and post-implant recommendations to the patient
* Prevent, identify and correct complications related to the venous access, passage to the   
  lead-myocardial interphase or to the device pocket.

Audience details

* Cardiologists, surgeons and electro-physiologists who have very limited or no experience in device implantation, but want to develop skills in implanting pacemakers, defibrillators and resynchronization systems.

Faculty

* Highly experienced and well recognized European implanting physicians and Medtronic trainers.

Course overview

* With instruction by highly experienced, well recognized implanting physicians, you will learn and practice every step of the pacemaker and defibrillator implantation procedure from scrubbing to wound closure.
* You will also learn how to anticipate, identify and correct the most common implant complications.
* Using state-of-the-art lead implantation simulators, heart models, venous access simulators and other surgical simulation, you can safely learn, practice and repeat the procedure over and over to fine-tune your technique – without unnecessary risk for yourself or for the patient.
* Following the course, you will be prepared for your first supervised *in vivo* experiences in humans.

Available dates (region; country; location)

* 18-19 Feb 2015 (Europe; Switzerland; Tolochenaz)

## Challenges in Brady follow-up

Objectives

* XXXX

Audience details

* XXXX

Faculty

* XXXX

Course overview

* XXXX

Available dates (region; country; location)

* TBC

# ATRIAL FIBRILLATION COURSES

## Cryoballoon Training Program 1

Objectives

* The course is dedicated to highlight the key procedural techniques that are important for a safe, simple and effective implementation of Arctic Front cryoablation into the cath lab daily practice.

Audience details

* Electrophysiologists starting cryoballoon ablation.

Faculty

* Prof. Hoffmann
* Dr. Dorwarth
* Dr. Schmidt
* Dr. Straube

Course overview

* The course will provide a comprehensive understanding of how Arctic Front is used in the clinical setting through the use of didactic presentations, interactive discussions and live patient applications.
  + 2 live cases, presentations.
  + Standard for Arctic Front cases: single TSP, Arctic Front with Achieve 15mm, confirming PVI after each freeze, ICE, 3D reconstruction for the anatomy.
  + For PAF single balloon, 2 if needed: Change to other balloon size if PV isolation not achieved.
  + For persistent AF double balloon approach.
  + Live cases during training: mostly one PAF, one persistent AF case.

Available dates (region; country; location)

* TBC

## Cryoballoon Training Program 2

Objectives

* The course is dedicated to highlight the key procedural techniques that are important for a safe, simple and effective implementation of Arctic Front cryoablation into the cath lab daily practice.

Audience details

* Electrophysiologists starting cryoballoon ablation.

Faculty

* Dr. Chun
* Dr. Fürnkranz
* Dr. Schmidt

Course overview

* 2 live cases, presentations.
* Standard for Arctic Front cases: single TSP, Achieve.
* Live cases during training: one case with double TSP, Lasso, Arctic Front with guide wire; one case with single TSP and Achieve.

Available dates (region; country; location)

* TBC

## Phased RF Physician CMC

Objectives

* The course is dedicated to highlight the key procedural techniques that are important for a safe, simple and effective implementation of PVAC into the cath lab daily practice.

Audience details

* Electrophysiologists starting with Phased RF ablation.

Faculty

* Dr. Nardi

Course overview

* 2-3 live cases, presentation.
* Standard Phased RF procedures (PAF only): single TSP, PVAC only.
* PVI checked with CS pacing and PVAC pacing and differential pacing from RA if indicated.
* No Persistent AF cases, no MAAC and no MASC used.
* Live cases during training: PAF, PVAC only.

Available dates (region; country; location)

* TBC

## PVAC GOLD Experience – From Theory to Lesion Assessment

Objectives

* Provide participants with a deep dive in the biophysics of the Phased RF technology lesion creation.

Audience details

XXXX

Faculty

* Dr Mélèze Hocini
* Dr Olivier Bernus

Course overview

* A combination of:
  + Theoretical presentations
  + Animal lab experience on pigs
  + A live AF PVAC GOLD case
  + Hands on sessions on a silicon heart model.

Available dates (region; country; location)

* By invitation only
* TBC

# EHRA COURSES

## EHRA – cardiac pacing, ICD and cardiac resynchronization

Objectives

* The programme will provide comprehensive coverage of scientific knowledge related to up-to-date clinical use of devices.
* The information will serve as a structured basis for the preparation of participants for the EHRA certification examination.

Audience details

* Participants should have some experience with device follow-up to attend this course.

Faculty

* Course Director: H. Burri

Course overview

* The course will include interactive sessions focused on:
  + Application of guidelines in daily practice
  + Review of relevant clinical trials
  + In-depth discussion of clinical cases
  + Device troubleshooting exercises.

Available dates (region; country; location)

* TBC

# ECG COURSES

## How to approach complex arrhythmias

Objectives

After completing this course, the participant will be better able to:

* Interpret both slow and fast rhythms on an ECG
* Recognize the various mechanisms of arrhythmias
* Select optimal device therapy for bradycardia and supraventricular or ventricular tachyarrhythmias
* Discuss ablation indications.

Audience details

* Electrophysiology fellows and cardiologists with solid experience in interpreting ECGs.

Faculty

* Mark E. Josephson, M.D., Professor of Medicine
* Chief of the Cardiovascular Division, Beth Israel Hospital
* Hein J.J. Wellens, M.D., Professor of Cardiology
* Former Chairman Interuniversity Cardiology

Course overview

* The course is designed to teach electrocardiographic interpretation of complex arrhythmias.
* The mechanisms, diagnosis and treatment of complex arrhythmias will be discussed.
* The course has a tutorial format and participants will be called upon to interpret electrocardiograms.
* We believe this form of teaching is both enjoyable and effective.
* All participants will receive a booklet with a series of ECGs that will be discussed during the sessions.
* The course will include five half-day sessions with informal discussions during lunch.
  + During the afternoons, participants are expected to prepare the sessions for the following day.

Available dates (region; country; location)

* TBC