

Continuing Medical Education



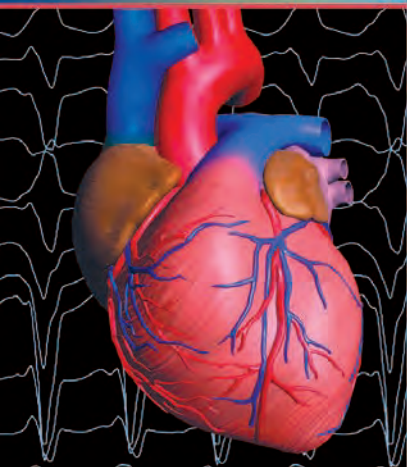
Perelman
School of Medicine
UNIVERSITY of PENNSYLVANIA

10th International Symposium on

VENTRICULAR ARRHYTHMIAS:

Pathophysiology & Therapy

www.vtsymposium.com



**Friday & Saturday
October 9-10, 2015**

Hyatt at the Bellevue
200 South Broad Street
Philadelphia, PA 19102

A CME-CERTIFIED COURSE

Co-hosted by:

**Hospital of the
University of Pennsylvania
The Mount Sinai Hospital**

Co-sponsored with:



Heart Rhythm Society

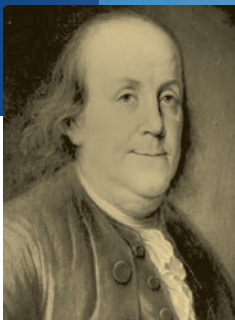
Course Directors

Francis Marchlinski, MD

David Callans, MD

Vivek Reddy, MD

Andre d'Avila, MD, PhD



Friday & Saturday, October 9-10, 2015

Hyatt at the Bellevue
200 South Broad Street
Philadelphia, PA 19102
215-893-1234

Program Overview

The purpose of this educational activity is to provide a current review of new information on the basic pathophysiology of ventricular arrhythmias; to provide an in-depth understanding of the various management

strategies that are currently being developed for the management of ventricular arrhythmias in various disease states, including non-pharmacologic therapies such as an implantable device therapy and advances in catheter ablation techniques.

Hosting Organizations

The *10th International Symposium on Ventricular Arrhythmias: Pathophysiology & Therapy* is hosted by the Department of Medicine, Division of Cardiology, University of Pennsylvania Health System, Philadelphia, PA and the Division of Cardiology, The Mount Sinai Hospital, New York, NY.

Target Audience

This course has been developed to meet the educational needs of electrophysiologists, cardiologists and other physicians and associated professionals with an interest in the pathophysiology and management of ventricular arrhythmias.

Program Objectives

1. Provide a review of new information on the basic pathophysiology of ventricular arrhythmias.
2. Provide an in-depth understanding of current management strategies used for the care of ventricular arrhythmias in various disease states, including non-pharmacological therapies such as implantable device and catheter ablation techniques.

Upon completion of this activity, participants should be able to:

- Describe the science critical to the understanding and treatment of ventricular arrhythmias including:
 - The role of the autonomic nervous system in ventricular arrhythmogenesis
 - Biophysics of ablation
 - Anatomic substrate for ventricular tachycardia (VT)
- Review the current status and future role for implantable cardioverter-defibrillators (ICD) in the management of sudden cardiac death.
- Describe the role of remote monitoring and genetic testing in the management/evaluation of patients with structural heart disease and VT.
- Discuss the role of new techniques for VT substrate assessment including body surface mapping (ECGI), MRI, voltage guided biopsy and high density mapping.
- Describe risk stratification and treatment including VT ablation and myomectomy in hypertrophic cardiomyopathy.

- Discuss strategies to improve treatment outcome in patients with ventricular arrhythmias and structural heart disease including “bail out” strategies after failed catheter ablation.
- Explain the current use/role of antiarrhythmic drug therapy for ventricular arrhythmias.
- Identify techniques to improve ablation success for idiopathic arrhythmias including use of advanced imaging.
- Describe the status of ongoing multicenter VT related trials and discuss which questions need to be answered by trials in the future.

Accreditation

The Perelman School of Medicine at the University of Pennsylvania is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Designation of Credit

The Perelman School of Medicine at the University of Pennsylvania designates this live activity for a maximum of 18.25 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Certificates and Transcripts

After the symposium has concluded, all participants will receive a follow-up email with instructions and a link. Once participants submit the request for credit, the earned credits will be available for viewing on a transcript and certificates will be available for printing at www.penncmeonline.com. Please note that the individual certificate will not be mailed.



Disclosures

Perelman School of Medicine at the University of Pennsylvania, Office of Continuing Medical Education, adheres to the ACCME *Standards for Commercial Support*. Faculty disclosure information will be made

available in the conference materials and syllabi. Faculty members are also expected to disclose to participants any discussions of off-label and/or investigational uses of pharmaceutical products during their presentations.

Registration Fees

Prior to September 6, 2015 the early registration fees for the *10th International Symposium on Ventricular Arrhythmias: Pathophysiology & Therapy* are \$525 for physicians, \$525 for industry employees and \$275 for all other healthcare professionals, residents and fellows. On or after September 6, 2015 the registration fees for the *10th International Symposium on Ventricular Arrhythmias: Pathophysiology & Therapy* are \$600 for physicians, \$600 for industry employees and \$350 for all other healthcare professionals, residents and fellows.

The registration fee includes tuition, a course booklet with access to presentations online, continental breakfasts, breaks and lunches.

You may register online for the course by visiting www.vtsymposium.com and click on CME Activities. You may also mail or fax your completed registration form and payment. Please see the top of the registration form for mailing and faxing information. All registrations will be confirmed in writing if your registration form and fee are received by October 2, 2015.

For VT Symposium Information Contact:
Carolyn Siwinski or Erica Zado
Hospital of the University of Pennsylvania
Tel: 215-662-6005 | Fax: 215-662-2879
Website: www.vtsymposium.com
Email: carolyn.siwinski@uphs.upenn.edu or
erica.zado@uphs.upenn.edu (Subject: VT Symposium)

Cancellation and Refund Policy

In order to process refunds for course withdrawals, cancellations must be received in writing by October 2, 2015 (subject to a service charge equivalent to 10% of the registration fee, but no less than \$25.00). No refunds will be issued thereafter.

The University reserves the right to cancel or postpone any course due to unforeseen circumstances. In the event of cancellation or postponement, the University will refund registration fees but is not responsible for related costs or expenses to participants, including cancellation fees assessed by hotels, airlines, and travel agencies.



Meeting Location and Parking

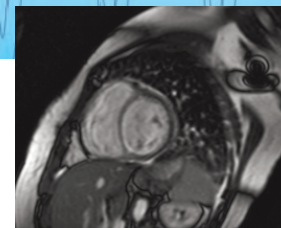
The *10th Annual International Symposium on Ventricular Arrhythmias: Pathophysiology & Therapy* will take place at the Hyatt at the Bellevue, 200 South Broad Street, Philadelphia, PA 19102.

The hotel's main number is 215-893-1234. Please visit the Hyatt website at www.philadelphia.hyatt.bellevue.com for directions and additional information.

A block of rooms has been reserved at the Hyatt at the Bellevue at a special group rate of \$235 per night single/double occupancy. Taxes are 15.2% per room per night and are subject to change. We recommend you make a reservation as soon as possible since there are a limited number of rooms available. Please call the Bellevue at the Hyatt reservations directly at 215-893-1234 or 1-800-GO-HYATT. Identify yourself as a "Penn VT Symposium" participant. This limited room block is available until September 18, 2015 or until the block is full.

The Hyatt at the Bellevue Philadelphia offers valet services and a self-parking garage. Parking and associated fees are not included in the registration fee and will not be validated.

For information on additional overnight accommodations or what to do or see while you're in Philadelphia, please go to www.gophila.com.



Services for the Disabled If special arrangements are required for an individual with a disability to attend this meeting, please contact the Office of Continuing Medical Education no later than October 2, 2015 at 215-898-6400.

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David Wilber, MD

Loyola University Medical Center
Maywood, IL

Fred Wittkamp, PhD

University Medical Center Utrecht
Utrecht, The Netherlands

AGENDA

Friday, October 9, 2015

6:45 – 7:25 AM
Registration and Continental Breakfast

7:25 – 7:30 AM
Welcome: Year 10 – A Decade
of Scientific Progress
Francis Marchlinski, MD

Session I
**Science Relevant to the Understanding
of Ventricular Arrhythmias**
Moderator – David Callans, MD

7:30 – 7:45 AM
**Anatomy of Substrate for VT
in Structural Heart Disease**
Samuel Asirvatham, MD

7:45 – 8:00 AM
**Interpretation of
Bipolar/Unipolar Electrograms**
John Miller, MD

8:00 – 8:15 AM
ECG of Ventricular Tachycardia
Mark Josephson, MD

8:15 – 8:30 AM
Biophysics of Ablation in Scar
Andre d’Avila, MD, PhD

8:30 – 8:45 AM
**Left Cardiac Sympathetic Denervation
in the Presence of VT/VF**
Peter Schwartz, MD

8:45 – 9:15 AM
Panel Discussion/Audience Participation

9:15 – 9:45 AM Break

Session II
Antiarrhythmic Drug Therapy for VT/VF
Moderator – Andrew Epstein, MD

9:45 – 10:00 AM
Acute Pharmacologic Therapy for VT
Jesus Almendral, MD, PhD

10:00 – 10:15 AM
**AAD Therapy for Inherited
Arrhythmia Syndromes**
Andrew Krahn, MD

10:15 – 10:45 AM
**Debate: How Should First Appropriate
ICD Shock be Treated?**
Antiarrhythmic Therapy –
Andrew Epstein, MD
Catheter Ablation – Vivek Reddy, MD

10:45 – 11:00 AM
**Is Stopping Amiodarone an
Achievable Goal of Ablation?**
David Frankel, MD

11:00 – 11:20 AM Panel Discussion

11:20 – 11:30 AM Pick up box lunch

11:30 – 1:30 PM
Lunch and Live Cases
Moderator – Francis Marchlinski, MD
EP Lab I

Mathew Hutchinson, MD;
Sanjay Dixit, MD; Michael Riley MD, PhD
EP Lab 2
Fermin Garcia, MD; David Lin, MD;
Gregory Supple, MD
Expert Panel Commentary
Vivek Reddy, MD; William Stevenson, MD;
John Miller, MD; Kalyanam Shivkumar,
MD, PhD; Paolo Della Bella, MD;
Josef Kautzner, MD, PhD

1:30 – 1:45 PM Break

Session III
**How to/What to Look Forward To –
Part 1: Imaging/Noninvasive
ECG Mapping**
Moderator – Vivek Reddy, MD

1:45 – 2:00 PM
**MR Imaging of the Ventricle in
AF Patients – New Insights**
Nassir Marrouche, MD

2:00 – 2:15 PM
**MR Imaging in the EP Lab to
Guide VT Ablation**
Henry Halperin, MD

2:15 – 2:30 PM
**Noninvasive ECG Imaging (ECGi) to
Identify VT Substrate**
Yoram Rudy, PhD

2:30 – 2:45 PM
Panel Discussion: Imaging for VT

Session IV
**How to/What to Look Forward To –
Part 2: Mapping**
Moderator – Vivek Reddy, MD

2:45 – 3:00 PM
**VT Substrate Mapping and Electrogram
Analysis in Chagas Disease**
Luis C. Sáenz, MD

3:00 – 3:15 PM
High Density Mapping of VT Circuits
Elad Anter, MD

3:15 – 3:30 PM
Fragmentation Mapping
Edward Gerstenfeld, MD

3:30 – 3:45 PM
**Pace Mapping to Localize VT –
“Nancy Technique”**
Christian de Chillou, MD, PhD

3:45 – 4:00 PM
Voltage Map Guided Biopsy
Suraj Kapa, MD

4:00 – 4:25 PM
**Panel Discussion: Mapping for VT –
What are the Unmet Needs?**
David Callans, MD;
Paolo Della Bella, MD

4:25 – 4:45 PM Break

Session V
**How to/What to Look Forward To –
Part 3: Ablation**
Moderator – Andre d’Avila, MD, PhD

4:45 – 5:00 PM
**Hemodynamic Support Devices:
Patient Selection/Implementation**
Gregory Supple, MD

5:00 – 5:15 PM
**Important Anticoagulation Issues
Pre, During, and Post VT Ablation**
Mathew Hutchinson, MD

5:15 – 5:30 PM
Core Isolation of Critical VT Substrate
Wendy Tzou, MD

5:30 – 5:45 PM
Electroporation in the Ventricle
Fred Wittkamp, PhD

5:45 – 6:00 PM
Bipolar Ablation for Intramural Scar
Srinivas Dukkupati, MD

6:00 – 6:25 PM
**Panel Discussion: Ablation for VT –
What are the Unmet Needs?**
William Stevenson, MD
David Wilber, MD
Josef Kautzner, MD, PhD

6:30 – 7:30 PM Reception

Saturday, October 10, 2015

7:00 – 7:30 AM
Registration and Continental Breakfast

Session VI
Hypertrophic Cardiomyopathy and VT/VF
Moderator – David Callans, MD

7:30 – 7:45 AM
Imaging for Diagnosis and SCD Risk
Timm Dickfeld, MD, PhD

7:45 – 8:00 AM
**Genetic Counseling and
Heart Failure Treatment**
Anjali Owens, MD

8:00 – 8:15 AM
Impact of ICD Therapy on Mortality in HCM
Barry Maron, MD

8:15 – 8:30 AM
Catheter Ablation of VT in HCM
Marc Miller, MD

8:30 – 8:50 AM Discussion

8:50 – 9:15 AM Break

Session VII
Device Therapy
Moderator – Vivek Reddy, MD

9:15 – 9:45 AM
**Debate: Do We Implant:
Too many ICDs? – Alfred Buxton, MD
Too few ICDs? – Eric Prystowsky, MD**

9:45 – 10:00 AM
**ICD Data: What More is Needed
for VT/VF Patient?**
Kenneth Ellenbogen, MD

10:00 – 10:15 AM
**Combining VT Ablation with Sub-Q ICD:
Important Considerations**
David Callans, MD



10:15 – 10:30 AM
NIPs to Program ICDs Post Ablation
Paolo Della Bella, MD

10:30 – 10:50 AM Discussion

Session VIII
Ablation of Focal VT
Moderator – Andre d’Avila, MD, PhD

10:50 – 11:05 AM
**ECG and Anatomic Imaging
for LV Summit VT**
Pasquale Santangeli, MD

11:05 – 11:20 AM
Ablation of ParaHisian VT
Fermin Garcia, MD

11:20 – 11:35 AM
PVC Triggered VF/LQTS/Brugada
Frederic Sacher, MD

11:35 – 11:50 AM
PVC Ablation in Scarred Myocardium
Frank Bogun, MD

11:50 AM – 12:10 PM Discussion

12:10 – 12:15 PM Pick up box lunch

12:15 – 1:15 PM
Working Lunch
Moderator – David Callans, MD
**Summary of Live Cases:
Findings/outcomes from 2014 (20 mins)**
Jacob Koruth, MD
Findings/outcomes from 2015 (20 mins)
Mathew Hutchinson, MD

Session IX
**Treatment of Ventricular Arrhythmias
Present and Future**
Moderator – Francis Marchlinski, MD

1:15 – 1:30 PM
What is the Effect of Early VT Ablation?
Gerhard Hindricks, MD

1:30 – 2:00 PM
Trial Updates: Panel Discussion
STAR VT – Andrea Natale, MD
VANISH – John Sapp, MD
PREVENT VT – Marmar Vaseghi, MD



2:00 – 2:30 PM
**Panel Discussion: What are the Optimal
Targets and Endpoints of VT Ablation?**
Vivek Reddy, MD; Frank Bogun, MD;
Andrea Natale, MD; Paolo Della Bella, MD;
David Callans, MD; Frederic Sacher, MD

2:30 – 2:45 PM
**Freedom from VT Recurrence and Mortality
after Ablation: Results from the International
VT Ablation Center Collaboration**
Roderick Tung, MD

2:45 – 3:00 PM
**Mortality Following VT Ablation:
A Glass Half Full?**
David Wilber, MD

3:00 – 3:20 PM
**Panel Discussion: What Outcome Studies
Will Move the Needle on VT Ablation?**
David Wilber, MD; Roderick Tung, MD;
William Sauer, MD; Andre d’Avila, MD, PhD

3:20 – 3:30 PM Break

Session X
**“Bail Outs” for Failed VT
AblationProcedures**
Moderator – David Callans, MD

3:30 – 3:45 PM
Stepwise Therapy
William Stevenson, MD

3:45 – 4:00 PM
Neuraxial Ablation
Kalyanam Shivkumar, MD, PhD

4:00 – 4:15 PM
Alcohol VT Ablation
Miguel Valderrabano, MD

4:15 – 4:30 PM
Surgical VT Ablation
Sanjay Dixit, MD

4:30 – 4:55 PM
Discussion

4:55 – 5:00 PM
Wrap up and Adjourn
Francis Marchlinski, MD

10th International Symposium on VENTRICULAR ARRHYTHMIAS: PATHOPHYSIOLOGY & THERAPY

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October 9-10, 2015

To register online for the course please visit www.vtsymposium.com

You May Also Mail or Fax Payment and Registration Information to:

VT Symposium Conference Coordinator
Perelman School of Medicine at the University of Pennsylvania
Office of Continuing Medical Education
150 Anatomy/Chemistry Building, 3620 Hamilton Walk, Philadelphia, PA 19104-6061
Phone: 215-898-6400 or 215-898-8005; Fax: 215-898-1888
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Affiliation (Hospital, Office, or Company) _____

Address (☐ affiliation ☐ home) _____

City _____ State _____ Zip _____

Phone _____ Fax _____

E-mail _____

Registration Fee (pre-payment is required to be officially registered)

	Before 9/6/15	On or after 9/6/15
Physicians	☐ \$525	☐ \$600
Biomedical, pharmaceutical or medical device industry employees	☐ \$525	☐ \$600
Residents, fellows, and allied health professionals	☐ \$275	☐ \$350

Payment Method

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For VT Symposium Questions Contact

Phone: 215-662-6005; 215-898-6400 or email: erica.zado@uphs.upenn.edu
or carolyn.siwinski@uphs.upenn.edu (Subject: VT symposium)

Please Note: Walk-in registrants must bring payment to the program.

Continuing Medical Education



150 Anatomy/Chemistry Building
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10th International Symposium on

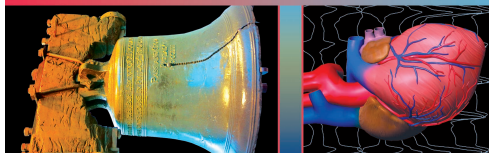
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