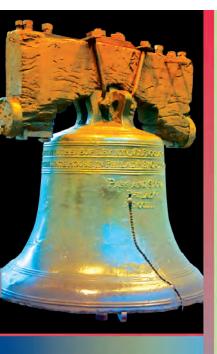
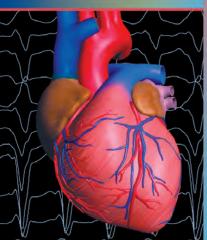
Continuing Medical Education



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

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

- Understand the current state of the use 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

Physicians: 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.

Nurses: The Hospital of the University of Pennsylvania, Department of Nursing Education, Innovation and Professional Development is an approved provider of continuing nursing education by the PA State Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

Designation of Credit

Physicians: 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*TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses: The Hospital of the University of Pennsylvania, Department of Nursing Education, Innovation and Professional Development awards this activity 18.25 contact hours.

Certificates and Transcripts: A few days prior to the symposium, pre-registered participants will receive an email containing directions, additional symposium information and a link to the symposium pre-test, a short questionnaire that will be used to gauge participant knowledge. After the symposium has concluded, all participants will receive a follow-up email containing a link to the post-test, symposium evaluation and request for credit. Once participants submit the request for credit, the credit can be viewed on a transcript or a certificate can be printed by logging onto www.penncmeonline.com once the conference concludes.

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 current review of new information on the basic pathophysiology of ventricular arrhythmias.
- 2. 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-pharmacological therapies such as implantable device therapy and advances in catheter ablation techniques.

At the conclusion of this symposium, participants should be able to:

• Describe the science critical to the understanding of ventricular arrhythmias 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).

- Understand the current status and future role for implantable cardioverterdefibrillators (ICD) in the management of sudden cardiac death.
- Describe the role of remote hemodynamic monitoring.
- Discuss the use of and techniques for ECGi, MRI in the EP lab, voltage guided biopsy, high density mapping of VT circuits.
- Describe risk stratification and treatment including ablation, ICD, and genetic testing in hypertrophic cardiomyopathy.
- Discuss strategies to improve treatment of patients with ventricular arrhythmias and structural heart disease including "bail out" strategies after failed catheter ablation.







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)

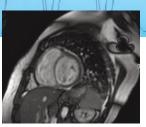
Cancellation and Refund Policy

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.

Nondiscrimination Statement The University of Pennsylvania values diversity and seeks talented students, faculty, and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, sex, sexual orientation, gender identity, religion, color, national or ethnic origin, age, disability, or status as a Vietram Era Veteran or disabled veteran in the administration of educational policies, programs or activities; admissions policies; scholarship and loan awards; athletic, or other University administered programs or employment. Questions or complaints regarding this policy should be directed to Executive Director, Office of Affirmative Action and Equal Opportunity Programs, 3600 Chestnut Street, Sansom Place East Suite 228, Philadelphia PA 19104-6106 or 215-898-6993 (Voice) or 215- 898-7803 (TDD). www.upenn.edu/affirm-action



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Gregory Supple, MD University of Pennsylvania Health System Philadelphia, PA

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Miguel Valderrabano, MD Houston Methodist DeBakey Heart & Vascular Center Houston, TX

Marmar Vaseghi, MD UCLA Cardiac Arrhythmia Center Los Angeles, CA

David Wilber, MD Loyola University Medical Center Maywood, IL

Fred Wittkampf, 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 РМ 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 рм 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 Wittkampf, PhD

5:45 – 6:00 PM Bipolar Ablation for Intramural Scar Srinivas Dukkipati, 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 РМ 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 Pierre Jais, MD, PhD

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

11:50 AM - 12:10 PM Discussion

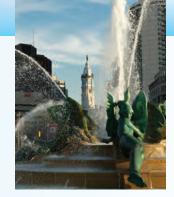
12:10 – 12:15 PM Pick up box lunch

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; Pierre Jais, MD, PhD

2:30 – 2:45 PM Successful Catheter Ablation Improves Survival – Results From an International VT 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

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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 penncme@mail.med.upenn.edu

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

	Before 9/6/15	On or after 9/6/15
Physicians	□ \$525	□ \$600
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Please Note: Walk-in registrants must bring payment to the program.

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