

Continuing Medical Education



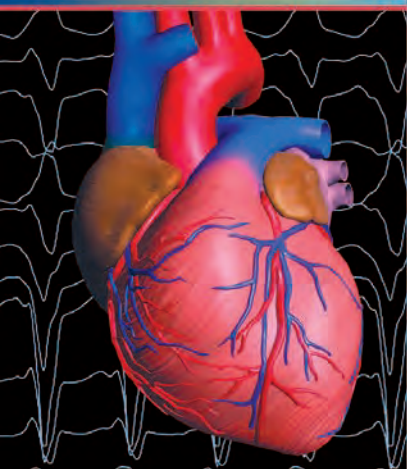
Perelman
School of Medicine
UNIVERSITY of PENNSYLVANIA

8th International Symposium on

VENTRICULAR ARRHYTHMIAS:

Pathophysiology & Therapy

www.vtsymposium.com



**Friday & Saturday
October 18-19, 2013**

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

In Conjunction with
Hospital of the University of Pennsylvania,
Department of Nursing Education,
Innovation and Professional Development

Course Directors

Francis Marchlinski, MD

David Callans, MD

Vivek Reddy, MD

Andre d'Avila, MD, PhD



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 *8th 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, the participant should be able to describe:

- The science critical to the understanding of ventricular arrhythmias including:
 - The role of the autonomic nervous system in ventricular arrhythmogenesis and sudden cardiac death
 - Genomic predictors of sudden cardiac death
 - The role of gene therapy in modifying ion current expression
- The current status and future role for implantable cardioverter-defibrillators (ICD) in the management of sudden cardiac death
- Indications and implant techniques for the subcutaneous ICD
- Role and usefulness of various imaging techniques (including MRI, contrast CT, voltage mapping) in patients with VT and those undergoing VT ablation
- Treatment including ablation in various unusual disease states including Chagas disease, cardiac sarcoid and ARVC
- Strategies to improve treatment of patients with ventricular arrhythmias and structural heart disease
- Optimal treatment for heart failure in patients with VT

- VT ablation in patients with left ventricular assist devices
- The safety and efficacy of pericardial access, catheter mapping and ablation of epicardial ventricular tachycardia
- The use of percutaneous hemodynamic support during VT ablation
- Complications of VT ablation and techniques to avoid them
- New strategies for ablation of VT/VF in structural heart disease to improve success
- 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*[™]. 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, which is an anonymous, 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 (please note that certificates are not automatically issued). Once participants submit the request for credit, the credit can be viewed on a transcript by logging onto www.penncmeeonline.com two weeks after the symposium. In addition certificates will be mailed via the US postal service 4-6 weeks after the symposium has concluded.



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, 2013 the early registration fees for the *8th 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, 2013 the registration fees for the *8th 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, lunches and reception.

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 4, 2013.

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 4, 2013 (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.

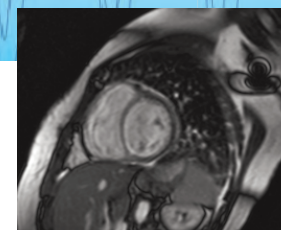
Meeting Location and Parking

The *8th 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 \$224 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 25, 2013 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 4, 2013 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 Vietnam 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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Wendy Tzou, MD

University of Colorado
Aurora, CO

David Wilber, MD

Loyola University Medical Center
Maywood, IL

Douglas Zipes, MD

Krannert Institute of Cardiology
Indianapolis, IN



AGENDA

Friday, October 18, 2013

7:00 – 7:45 AM
Registration and Continental Breakfast

7:45 – 8:00 AM
Welcome
Francis Marchlinski, MD

Session I
Scientific Background Essential for Understanding VT/VF
Moderator – David Callans, MD

8:00 – 8:15 AM
Anatomic Substrate for VT in Healed Infarction
Mark Josephson, MD

8:15 – 8:30 AM
Influence of the Autonomic Nervous System on Ventricular Remodeling and Arrhythmias
Douglas Zipes, MD

8:30 – 8:45 AM
Genetics/Informatics – Do They Influence Approach to Sudden Cardiac Death?
Gordon Tomaselli, MD

8:45 – 9:00 AM
Gene Therapy/Potassium Channel Manipulation
J. Kevin Donahue, MD

9:00 – 9:15 AM
Nature of VF (Present and Past)
John Miller, MD

9:15 – 9:45 AM
Panel Discussion:
Focused Question: Prioritizing the Order of Basic Science EP Initiatives in the Era of Limited Funding Opportunities: What Should be Considered?

9:45 – 10:10 AM **Coffee Break**

Session II
Device Therapy for VT/VF
Moderator – Francis Marchlinski, MD

10:10 – 10:25 AM
Indications for S-ICD: What Studies Need to be Done?
Michael Gold, MD, PhD

10:25 – 10:40 AM
What is the Reason for Improved Mortality in MADIT RIT?
Arthur Moss, MD

10:40 – 10:55 AM
What Studies are Needed to Change CRT Implantation Criteria?
Kenneth Ellenbogen, MD

10:55 – 11:10 AM
Evidence Based Indications for the Life Vest?
Andrew Epstein, MD

11:10 – 11:25 AM
The ICD in Athletes Registry – Lessons Learned
David Cannom, MD

11:25 – 11:50 AM
Panel Discussion:
Focused Question: What is the Basis for Decrease in ICD Utilization?
Moderator – Alfred Buxton, MD

11:50 AM – 1:50 PM
Lunch and Live Cases
Topics covered to be determined
University of Penn Faculty
Moderator – Francis Marchlinski, MD
Panel: John Miller, MD
David Wilber, MD
William Stevenson, MD
Hans Kottkamp, MD

Session III
Imaging in VT/VF Patient
Moderator – Vivek Reddy, MD

1:50 – 2:05 PM
Advanced Image Integration and Choice of Ablation Targets
Pierre Jais, MD

2:05 – 2:20 PM
MRI Guided Ablation With Intra-procedural Imaging
Henry Halperin, MD

2:20 – 2:35 PM
MR Imaging in VT patients: Issues, Findings of Importance
Harold Litt, MD, PhD

2:35 – 2:50 PM
Correlation Between MR Imaging and Voltage Map Findings
Mathew Hutchinson, MD

2:50 – 3:20 PM
Panel Discussion
Focused Question: Important Issues in Imaging and Clinical Electrophysiology That Should be Investigated

3:20 – 3:40 PM **Coffee Break**

Session IV
Intersection of Heart Failure and VT Therapy
Moderator – Andre d’Avila, MD, PhD

3:40 – 3:55 PM
Can We Identify Reversible LV Dysfunction in the EP Lab?
Francis Marchlinski, MD

3:55 – 4:10 PM
VT in the Patient With Advanced Heart Failure: Whose Fault is it?
Lynne Warner Stevenson, MD

4:10 – 4:25 PM
VT Ablation in LVAD Patients
David Callans, MD

4:25 – 4:40 PM
Debate: Routine Use of Assist Devices During VT Ablation
Pro: Vivek Reddy, MD
Con: Roderick Tung, MD

4:40 – 5:10 PM
Discussion

Session V
Various Topics Related to Ablation of VT
Moderator – Francis Marchlinski, MD

5:10 – 5:30 PM
VT in the Setting of Chagas Disease
Andre d’Avila, MD, PhD

5:30 – 5:50 PM
Ablation of Triggers for VF From Moderator Band/Papillary Muscle
Fermin Garcia, MD

5:50 – 6:10 PM
Complications of VT Ablation
Josef Kautzner, MD

6:10 PM
Adjourn

6:10 PM
Reception

Saturday, October 19, 2013

7:00 – 8:00 AM
Registration and Continental Breakfast

Session VI
Ventricular Arrhythmias in Cardiac Sarcoid
Moderator – David Callans, MD

8:00 – 8:15 AM
Imaging in Cardiac Sarcoid
Timm Dickfeld, MD, PhD

8:15 – 8:30 AM
Risk Assessment and ICD Implantation
William Sauer, MD

8:30 – 8:45 AM
VT Ablation in Patients with Cardiac Sarcoid
William Stevenson, MD

8:45 – 9:00 AM
Indications for Management of Immunosuppressive Therapy
Frank Bogun, MD

9:00 – 9:30 AM
Discussion: How Will We Achieve Consensus in Cardiac Sarcoid Therapy?
Guest Panelist – Lee Goldberg, MD, MPH

9:30 – 9:50 AM **Coffee Break**

Session VII
Update on Ongoing Trials
Moderator – Vivek Reddy, MD

9:50 – 10:05 AM
PREVENT VT
Kalyanam Shivkumar, MD, PhD

10:05 – 10:20 AM
RESCUE VT
Vivek Reddy, MD

10:20 – 10:35 AM
PARTITA
Paolo Della Bella, MD

10:35 – 10:50 AM
ASPIRE
David Wilber, MD

10:50 – 11:25 AM
Panel Discussion
Focused Question: What Trials are Needed to Expand the Utility/ Success of VT Ablation and How do We Include NICM and Epicardial Ablation?

11:25 AM – 1:00 PM
Lunch Discussion: Health Care Economics
Richard Fogel, MD

Session VIII
New Strategies for Ablation in Structural Heart Disease
Moderator – Andre d’Avila, MD, PhD

1:00 – 1:15 PM
Impact of Epicardial Ablation for VT in Healed Infarction
Karl-Heinz Kuck, MD

1:15 – 1:30 PM
Box Ablation/Scar Isolation
Wendy Tzou, MD

1:30 – 1:45 PM
Endo-epicardial Scar Homogenization
Andrea Natale, MD

1:45 – 2:00 PM
Utility of NIPS to Predict Ablation Success
David Frankel, MD

2:00 – 2:30 PM
Panel Discussion
Focused Question: What Techniques are Still Limited and What Studies Should be Done?

2:30 – 2:50 PM **Coffee Break**

Session IX
New Technology for VT Ablation
Moderator – Francis Marchlinski, MD

2:50 – 3:05 PM
High Resolution Scar Mapping
Hiroshi Nakagawa, MD

3:05 – 3:20 PM
Contact Force Sensing
Paolo Della Bella, MD

3:20 – 3:35 PM
Bipolar Ablation
Srinivas Dukkkipati, MD

3:35 – 3:50 PM
Real Time Ultrasound Lesion Assessment
David Haines, MD

3:50 – 4:05 PM
Photon Beam Ablation
Douglas Packer, MD

4:05 – 4:45 PM
Panel Discussion:
Focused Question: What are the Challenges and What Tools are Still Needed?

4:45 PM
Adjourn



8th International Symposium on VENTRICULAR ARRHYTHMIAS: PATHOPHYSIOLOGY & THERAPY

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October 18-19, 2013

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
333 Blockley Hall, 423 Guardian Drive, Philadelphia, PA 19104-6021
Phone: 215-898-6400 or 215-898-8005; Fax: 215-898-1888
penncme@mail.med.upenn.edu

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Name (First) _____ (Last) _____

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Medical Specialty _____

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 9/6/13	On or after 9/6/13
Physicians	☐ \$525	☐ \$600
Biomedical, pharmaceutical or medical device industry employees	☐ \$525	☐ \$600
Residents, fellows, and allied health professionals	☐ \$275	☐ \$350

Payment Method

Make check payable to the Trustees of the University of Pennsylvania/CME

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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



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8th International Symposium on

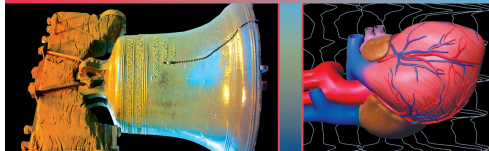
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