

Continuing Medical Education



Penn Medicine

Nineteenth Annual State-of-the-Art Arrhythmia Symposium

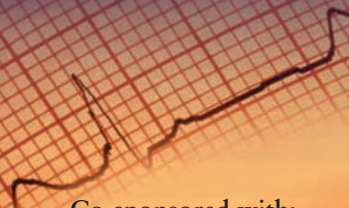
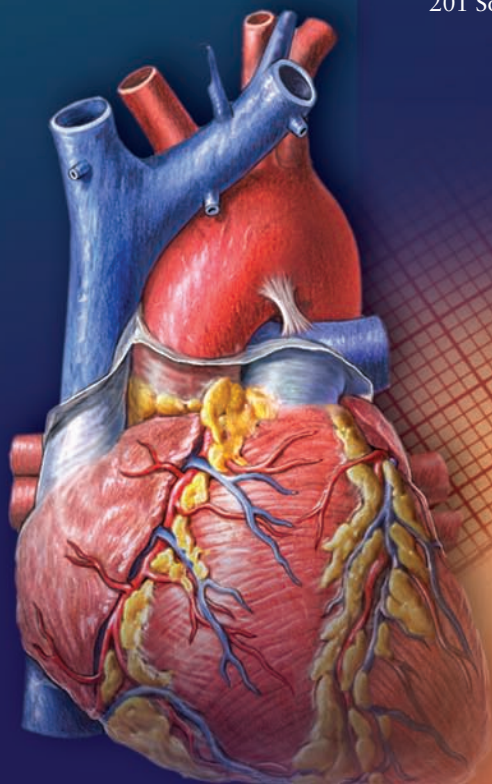
**Arrhythmia Diagnosis & Treatment Standards 2011
and Leonard N. Horowitz, MD
Memorial Lecture**

A CME-CERTIFIED COURSE

Monday, September 12, 2011

Hyatt Regency Philadelphia
at Penn's Landing

201 South Christopher Columbus Blvd
Philadelphia, PA 19106



Co-sponsored with:

American Heart
Association®



Heart Rhythm Society

Monday, September 12, 2011

Hyatt Regency at Penn's Landing
201 South Christopher Columbus Blvd.
Philadelphia, PA 19106
215-928-1234

PROGRAM OVERVIEW & TARGET AUDIENCE

This program is designed to provide electrophysiologists, cardiologists, internists, and associated professionals with state-of-the-art information on invasive and non-invasive electrocardiographic and electrophysiologic tools used in the diagnosis, evaluation, and treatment of cardiac rhythm disorders. Attendees of the symposium will develop an understanding of the correct approach to the patients with atrial fibrillation, other atrial and ventricular tachycardias, and risk factors for sudden death.

Learning Objectives

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

- Identify which patients with genetic arrhythmia syndromes should get an ICD
- Discuss the role of anticoagulation in patients with various arrhythmia problems
- Discuss various monitoring modalities used post ablation and currently available in implantable devices
- Discuss role of ablation for patients with atrial fibrillation including current recommendations and expected outcomes
- Identify appropriate evaluation and management of patients presenting with syncope
- Identify appropriate use of new device therapy – leadless defibrillators and wearable cardioverter-defibrillator
- Discuss appropriate screening for sudden death risk in young people and athletes
- Discuss new techniques and technologies used during complex EP device and ablation cases

Hosting Department

The *Nineteenth Annual State-of-the-Art Arrhythmia Symposium* is hosted by the Department of Medicine, Division of Cardiology, Electrophysiology Section, University of Pennsylvania Health System.

Accreditation

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

The Office of Human Research, University of Pennsylvania School of Medicine is an approved provider of continuing education by the Pennsylvania State Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

Designation of Credit

The University of Pennsylvania School of Medicine designates this educational activity for a maximum of 7.5 *AMA PRA Category 1 Credits*[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

PA State Nurses Association: This activity is approved for 7.5 contact hours.

AAPA: AAPA accepts certificates of participation for educational activities certified for Category 1 credit from AOACCME, Prescribed credit from AAFP, and *AMA PRA Category 1 Credit*[™] from organizations accredited by ACCME or a recognized state medical society. Physician assistants may receive a maximum of 7.5 hours of *Category 1 Credit* for completing this program.

Registration Fees

The registration fees for the *Nineteenth Annual State-of-the-Art Arrhythmia Symposium* are \$120 for physicians, \$120 for biomedical, pharmaceutical or medical device industry employees, and \$100 for all other allied health professionals, residents and fellows. UPHS Employees, Faculty, Staff and Students will receive a special course rate. A Penn ID is required to receive the special rate. The registration fee includes tuition, course syllabus, parking, continental breakfast, breaks, lunch, and the reception following the symposium.

Registration forms may be mailed or faxed to the Office of Continuing Medical Education with payment or you may register on-line at www.med.upenn.edu/apps/cme_events/#conferences. Please see the bottom of the registration form for contact information. All registrations will be confirmed in writing if the necessary form and fee are received by the Office of Continuing Medical Education by August 26, 2011.

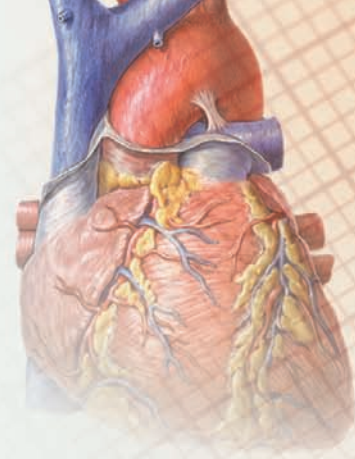
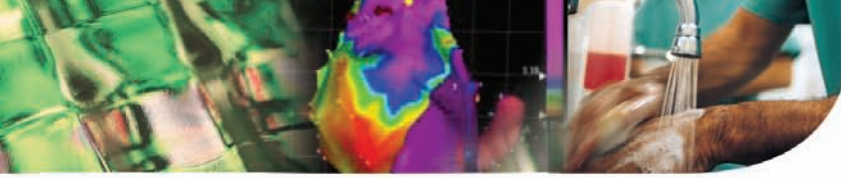
Cancellation and Refund Policy

In order to process refunds for course withdrawals, cancellations must be received in writing by August 26, 2011 (subject to a \$15 service charge). 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.

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 August 26, 2011, at 215-898-6400.

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Meeting Location and Parking

The *Nineteenth Annual State-of-the-Art Arrhythmia Symposium* will take place at the Hyatt Regency Philadelphia at Penn's Landing, 201 South Christopher Columbus Boulevard, Philadelphia, PA. The hotel's main number is 215-928-1234. If you need overnight reservations, please call 1-800-233-1234. Please visit the Hyatt's website at www.pennslanding.hyatt.com for directions and additional information.

The Hyatt parking garage is located just past the hotel's main entrance. The parking fee is included in your registration fee. Your parking in the Hyatt garage will be validated at the registration desk on the day of the conference.

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

Disclosures

University of Pennsylvania School of Medicine, 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 within their presentations.

Course Director

Francis Marchlinski, MD
Professor of Medicine
Director, Cardiac Electrophysiology
University of Pennsylvania
Health System, Philadelphia, PA

Guest Faculty

Edward Gerstenfeld, MD
Associate Professor of Medicine
Chief, Cardiac Electrophysiology
University of California
San Francisco, CA

David Hayes, MD
Professor of Medicine
College of Medicine
Mayo Clinic
Consultant, Division of Cardiovascular
Disease, Rochester, MN

Christopher Liu, MD
Assistant Professor of Medicine
Assistant Director
Cardiac Electrophysiology Laboratory
Division of Cardiology
Weill Cornell Medical College
New York, NY

Joshua Moss, MD
Assistant Professor of Medicine
University of Chicago Medical Center
Heart Rhythm Center, Chicago, IL

Colin Movsowitz, MBBCh
Cardiac Electrophysiologist
Cardiology Consultants of Philadelphia
Lankenau Hospital, Philadelphia, PA

Silvia Priori, MD, PhD
Associate Professor of Cardiology
University of Pavia, Italy
Scientific Director, Director of
Cardiology and Molecular Cardiology
IRCCS Fondazione Maugeri, Pavia, Italy
Professor of Medicine
Director of Cardiovascular Genetics
Langone Medical Center
New York University, New York, NY

Faculty

All faculty are part of the
University of Pennsylvania
School of Medicine, Philadelphia, PA

Rupa Bala, MD
Assistant Professor of Medicine
Cardiac Electrophysiology

David Callans, MD
Professor of Medicine
Cardiac Electrophysiology

Nancy Cash, CRNP
Nurse Practitioner
Cardiac Electrophysiology

Joshua Cooper, MD
Assistant Professor of Medicine
Cardiac Electrophysiology

Rajat Deo, MD
Assistant Professor of Medicine
Cardiac Electrophysiology

Sanjay Dixit, MD
Associate Professor of Medicine
Director, Electrophysiology Laboratory
Philadelphia VA Medical Center

Andrew Epstein, MD
Professor of Medicine
Chief, Cardiology Section
Philadelphia VA Medical Center

David Frankel, MD
Assistant Professor of Medicine
Cardiac Electrophysiology

Fermin Garcia, MD
Assistant Professor of Medicine
Cardiac Electrophysiology

Mathew Hutchinson, MD
Assistant Professor of Medicine
Cardiac Electrophysiology

David Lin, MD
Assistant Professor of Medicine
Cardiac Electrophysiology

Monica Pammer, PA-C
Physician Assistant
Cardiac Electrophysiology

Tara Parham, CRNP
Nurse Practitioner
Cardiac Electrophysiology

Rutuke Patel, PA-C
Physician Assistant
Cardiac Electrophysiology

Cynthia Ramos, CRNP
Nurse Practitioner
Cardiac Electrophysiology

Jian-Fang Ren MD
Consultant
Division of Cardiovascular Disease

Michael Riley, MD, PhD
Assistant Professor of Medicine
Cardiac Electrophysiology

Andrea Schell, PA-C
Nurse Practitioner
Cardiac Electrophysiology

Gerilynn Schott, CRNP
Nurse Practitioner
Cardiac Electrophysiology

Cory Tschabrunn, CEPS
Certified Electrophysiology Specialist
Cardiac Electrophysiology

Ralph Verdino, MD
Associate Professor of Medicine
Cardiac Electrophysiology

Erica Zado, PA-C
Physician Assistant
Cardiac Electrophysiology

Nineteenth Annual State-of-the-Art Arrhythmia Symposium
Monday, September 12, 2011

AGENDA

7:15 – 7:45 AM

Registration and Continental Breakfast

General Cardiology

Morning Session – 7:45 AM – 12:00 PM

Moderator: Francis Marchlinski, MD

7:45 – 8:00 AM

Welcome & Introduction

Francis Marchlinski, MD

8:00 – 8:30 AM

Status of Oral Anticoagulation Management in Arrhythmia Patients

Francis Marchlinski, MD

- Selecting therapy
- Pre and post ablation
- AF versus VT patients
- Device patients – lead thrombus

8:35 – 9:05 AM

Trouble Shooting Pacemakers for Bradycardia

David Hayes, MD

- Systematic approach to troubleshooting
- Making the most of diagnostic data provided by the device
- When will the chest x-ray be helpful?

9:10 – 10:00 AM

Panel Discussion – ECG Abnormalities on Screening ECG: Diagnosis and Clinical Implications

Moderator: Francis Marchlinski, MD

Panel members: Silvia Priori, MD, PhD, Edward Gerstenfeld, MD, David Lin, MD, Andrew Epstein, MD

- Long QT – when to worry
- Accelerated idioventricular rhythms
- WPW syndrome
- Brugada ECG patterns

10:00 – 10:30 AM

Atrial Fibrillation – Catheter Ablation: Patient Selection and Expected Outcome

Michael Riley, MD, PhD

- Current recommendations
- Clinical trial results
- Penn Experience
- CABANA Trial

10:30 – 11:00 AM

Break/Visit Exhibits

11:00 AM – 12:00 PM

Leonard N. Horowitz MD Memorial Lecture Calcium Dysregulation and Clinical Arrhythmias: What Have we Learned From Genetics?

Silvia Priori, MD, PhD

12:00 – 1:00 PM Lunch

General Cardiology

Afternoon Session – 1:00 – 5:00 PM

Moderator: David Callans, MD

1:00 – 1:55 PM

Panel Discussion – Syncope

Moderator: David Callans, MD

Panel Members: Silvia Priori, MD, PhD, Rupa Bala, MD, David Frankel, MD

- When to worry
- Inpatient and outpatient evaluation
- Role of implantable loop recorders
- Exercise-induced syncope

1:55 – 2:20 PM

The Wearable Cardioverter Defibrillator – Life Saving Attire or Clinical Faux Pas

Ralph Verdino, MD

- Patient selection
- Bridging to implantable devices
- Contraindications

2:25 – 2:55 PM

Genetic Arrhythmia Syndromes – Who Gets an ICD?

Silvia Priori, MD, PhD

- Long QT
- ARVC
- Brugada syndrome
- Catecholaminergic polymorphic VT

3:00 – 3:20 PM Break

3:20 – 3:50 PM

Arrhythmia-Induced Cardiomyopathies: Recognition, Prevention, and Treatment

David Lin, MD

- Incessant tachycardias
- Atrial fibrillation
- PVC-induced cardiomyopathy

3:55 – 4:25 PM

Monitoring Data from Devices – Value Added Information

Joshua Cooper, MD

- AF burden
- Arrhythmia triggers
- Impending device/lead failure
- Pitfalls of remote monitoring

4:30 – 4:55 PM

“Leadless” ICD Devices and Pacemakers – Current Status and Future Developments

Andrew Epstein, MD

- Problems with intravascular leads
- Subcutaneous ICD systems
- Future technology and need

Associated Professional – 1:00 – 4:50 PM Afternoon Breakout Session

Moderator – Nancy Cash, CRNP

1:00 – 1:40 PM

Role of Anesthesia in the EP Lab – Implications for Pre and Post Care

Cory Tschabrunn, CEPS

- When to anticipate airway problems
- The difference between conscious sedation and general anesthesia
- Use of JET ventilation
- Anesthesia related complications

1:45 – 3:00 PM

EP (Not so) Trivial Pursuit (Audience Participation)

Speakers: Monica Pammer, PA-C, Tara Parham, CRNP, Gerilynn Schott, CRNP, Andrea Schell, PA-C

- Important ECG unknowns
- Device problems
- Antiarrhythmic drug choices and interactions

3:00 – 3:20 PM Break

3:20 – 4:00 PM

Post Operative/Post Procedure Arrhythmia Management

Cynthia Ramos, CRNP

- Acute Afib rate and/or rhythm control
- Managing ventricular arrhythmias/ICD shocks
- Sinus pauses
- AV block

4:05 – 4:50 PM

Which Patient Should Get Ablation – Indications/Contraindications

Rutuke Patel, PA-C

- WPW Syndrome
- Afib – His ablation
- Afib – PV isolation
- PVC ablation

Advanced EP – 7:45 AM– 12:00 PM

All Day Session – Morning

Moderator: David Callans, MD

7:45 – 8:00 AM

Welcome & Introduction

David Callans, MD

8:00 – 8:20 AM

Techniques for Improving/Assessing Catheter Stability During Ablation

Fermin Garcia, MD

- Electroanatomic mapping
- Steerable sheaths
- JET ventilation
- Pressure sensing catheters

8:25 – 8:50 AM

ECG Monitoring After AF Ablation – Lessons Learned

Sanjay Dixit, MD

- Is it necessary?
- Current monitoring strategies
- What may be the future of monitoring post ablation

8:50 – 9:05 AM

Commentary: Are we Ready for the Onslaught of Monitoring Data?

Colin Movsowitz, MD

9:10 – 9:35 AM

MRI and Intracardiac Echo for EP Procedures

Mathew Hutchinson, MD

- Pre EP assessment
- Identifying catheter tip location and lesion formation
- Avoiding and monitoring for complications

9:40 – 10:30 AM

Imaging Panel/Case Discussion

Moderator: David Callans, MD

Panelists: Jian-Fang Ren, MD, Mathew Hutchinson, MD, Rupa Bala, MD

10:30 – 11:00 AM Break/Visit Exhibits

11:00 AM – 12:00 PM

Leonard N. Horowitz MD Memorial Lecture Calcium Dysregulation and Clinical Arrhythmias: What Have we Learned From Genetics?

Silvia Priori, MD, PhD

12:00 – 1:00 PM Lunch

Advanced EP – 1:00 – 5:00 PM

All Day Session – Afternoon

Moderator: Francis Marchlinski, MD

1:00 – 1:20 PM

Genetic/Genomics for the Electrophysiologist

Raj Deo, MD

- Identifying population risks
- Dealing with family members

1:25 – 1:45 PM

Important Anatomy Lessons for the Electrophysiologist

David Lin, MD

- Introduction to fluoroscopic anatomy
- Tips and tricks for overcoming the difficult anatomy in the EP lab

1:50 – 2:15 PM

Management of Devices at Patient End-of-Life

David Hayes, MD

- Understanding the growing number of requests for device management at patient end-of-life
- Legal and ethical implications
- Review of the HRS consensus statement

2:20 – 3:00 PM

Challenging EP Device Cases

Panelists: Joshua Cooper, MD, Andrew Epstein, MD, David Frankel, MD, David Hayes, MD

3:00 – 3:20 PM Break

3:20 – 4:20 PM

Epicardial Mapping/Ablation

- Clues to epicardial location: MR and intracardiac echo
Rupa Bala MD

- Clues to epicardial location: ECG of VT, and unipolar recordings
Francis Marchlinski, MD

- Important technical considerations: To optimize outcome and safety
Edward Gerstenfeld, MD

15 minute presentations and

15 minute panel discussion

4:20 – 5:00 PM

Challenging EP Ablation Cases – Audience Participation

Moderator: Francis Marchlinski, MD

Panelists: David Frankel, MD, Chris Liu, MD, Joshua Moss, MD

5:00 – 6:00 PM Reception

6:00 PM Adjourn

Nineteenth Annual State-of-the-Art Arrhythmia Symposium

ARRHYTHMIA DIAGNOSIS AND TREATMENT 2011 AND
LEONARD N. HOROWITZ, MD MEMORIAL LECTURE

Monday, September 12, 2011

You may also register online at www.med.upenn.edu/cme
and click on CME Activities

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Medical Specialty _____

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Breakout Session Preference (Please Check One)

General Cardiology Associated Professionals Advanced EP (All Day Session)

Registration Fees

(pre-payment is required to be officially registered)

- \$120 Physicians
- \$120 Biomedical, Pharmaceutical or Medical Device Industry Employees
- \$100 Residents, Fellows, and Allied Health Professionals
- \$100 UPHS Physicians (with valid ID)
- \$60 UPHS Residents, Fellows, and Allied Health Professionals (with valid ID)
- \$60 Penn Students (with valid ID)

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penncme@mail.med.upenn.edu

*Please Note: Walk-in registrants must bring payment to the program.
Seating may be limited for walk-in registrants.*

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Penn Medicine

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PHONE: 215-898-9800 FAX: **215-898-1888**

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ARRHYTHMIA DIAGNOSIS AND TREATMENT STANDARDS 2011

A CME-certified Course

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