22nd Annual International
January 12 – 14, 2017
Hyatt Regency Orlando, Orlando, FL

Atrial Fibrillation
Mechanisms and New Directions in Therapy

COURSE DIRECTORS
Jeremy Ruskin, MD
Moussa Mansour, MD
David Keane, MD, PhD
Pierre Jais, MD
Vivek Reddy, MD

A CME Symposium
Jointly Provided by Postgraduate Institute for Medicine
and Advanced Medical Education

Register online at: afsymposium.com
THURSDAY, JANUARY 12, 2017
Morning Scientific Session

7:00 - 7:10 AM  Welcome and Overview of the 22nd Annual AF Symposium
Jeremy Ruskin, MD

7:10 - 9:40 AM  Mechanisms and Genetics of Atrial Fibrillation
All lectures 15 minutes; Q&A during panel discussion
Moderators: Jose Jalife, MD & Stanley Nattel, MD

New Insights Into the Mechanistic Links Between Inflammation, Oxidative Stress and AF
David Van Wagoner, PhD

AF Is Associated With Fibrotic Remodeling of Subepicardial Adipose Tissue in Sheep and Human Atria
Jose Jalife, MD

Reentrant Drivers Anchoring to Structural Heterogeneities: A Major Pathophysiological Mechanism of Human Persistent AF
Natalia Trayanova, PhD

Hypercoagulable State During AF Promotes Atrial Fibrosis and AF
Ulrich Schotten, MD, PhD

Is Atrial Fibrosis Reversible?
Future Directions in Anti-Fibrotic Therapy
Stanley Nattel, MD

Atrial Myopathy and Fibrosis: Lessons from 10 Years of MRI Imaging
Nassir Marrouche, MD

AF Genetics and Genome Sequencing in 2017: What Have We Learned?
Patrick Ellinor, MD, PhD

Prevention of AF: A Basic Scientist's Perspective
David Van Wagoner, PhD

Panel and Audience Q&A and Discussion
30 minutes (All Faculty)
Moderator: Jose Jalife, MD
9:40 - 10:10 AM  Break and Exhibits

10:10 - 11:45 AM  Screening for Atrial Fibrillation - Rationale, Results and Clinical Impact
All lectures 15 minutes; Q&A during panel discussion
Moderator: Emelia Benjamin, MD, ScM

General Considerations in Screening Programs for Atrial Fibrillation
Daniel Singer, MD

Progress and Worldwide Experience With AF Screening for AF in 2017
John Camm, MD

Update on the Epidemiology of AF and Significance of Transient AF
Emelia Benjamin, MD

Device Detected AF: What is the Stroke Risk and When Should Anticoagulants Be Used?
Daniel Singer, MD

Advantages and Limitations of Current Technologies for AF Detection
Suneet Mittal, MD

Panel and Audience Q&A and Discussion
20 minutes (All Faculty)
Moderator: Emelia Benjamin, MD, ScM
11:45 AM - 12:30 PM  Clinical Trials, Guidelines and Regulatory Issues in AF Ablation
All lectures 15 minutes; no Q&A
Moderator: Hugh Calkins, MD

Clinical Trials on New Technologies for AF Ablation
Hugh Calkins, MD

2017 ESC AF Guidelines and Comparison of AF Guidelines Across the World
John Camm, MD

Evidence Generation in AF Ablation Device Studies: Challenges and Opportunities
Jun Dong, MD, PhD
12:30 - 2:00 PM  Lunch and Exhibits

THURSDAY, JANUARY 12, 2017
Afternoon Scientific Session

2:00 - 3:00 PM  Clinical Trials and Regulatory Issues in LAA Closure
All lectures 15 minutes; no Q&A
Moderator: Hugh Calkins, MD

LAA Closure: The Munich Consensus Document on Definitions, Endpoints, and Data Collection Requirements for Clinical Studies
Dhanunjaya Lakkireddy, MD

Clinical Trials of Left Atrial Appendage Occlusion Devices: Update From the FDA
Andrew Farb, MD
2:30 - 4:00 PM  Challenging Cases in AF Management I: Antiarrhythmic Drugs, Anticoagulation, and Clinical Decision Making
Panel and Audience Discussion (10 minutes per case)
Moderator: Eric Prystowsky, MD
Panel: Peter Kowey, MD, Suneet Mittal, MD, Eric Prystowsky, MD, and Jeremy Ruskin, MD
4:00 - 4:30 PM  Break and Exhibits

4:30 - 6:00 PM  Challenging Cases in AF Management II: Catheter Ablation for AF and Left Atrial Appendage Closure
Panel and Audience Discussion (10 minutes per case)
Moderator: David Keane, MD, PhD
Panel: Shih-Ann Chen, MD, Isabel Deisenhofer, MD, Pierre Jais, MD, Hans Kottkamp, MD, Andrea Natale, MD, and Vivek Reddy, MD
6:00 PM  Adjourn
**FRIDAY, JANUARY 13, 2017**

**Morning Scientific Session**

7:00 - 10:30 AM

**Case Transmissions: Advances in Catheter Ablation for AF and Left Atrial Appendage Closure**

**Moderators:** Moussa Mansour, MD and Jeremy Ruskin, MD

**Panel:** Pierre Jais, MD, Francis Marchlinski, MD, Andrea Natale, MD, Douglas Packer, MD, Vivek Reddy, MD and David Wilber, MD

**Na Homolce Hospital, Prague, Czech Republic**

Peter Neuzil, MD, Jan Petru, MD and Jan Skoda, MD

**University of Milan Centro Cardiologico Monzino, Milan, Italy**

Claudio Tondo, MD, PhD, Antonio Dello Russo, MD, PhD, Gaetano Fassini, MD and Massimo Moltrasio, MD, PhD

**Massachusetts General Hospital, Boston, MA**

Kevin Heist, MD, PhD, Conor Barrett, MD and Moussa Mansour, MD

**Loyola University Medical Center, Chicago, IL**

David Wilber, MD and Smit Vasaiwala, MD

**Texas Cardiac Arrhythmia Institute, Austin, Texas**

Rodney Horton, MD, Amin Al-Ahmad, MD, David Burkhardt, MD and Andrea Natale, MD

**Intermountain Medical Center, Murray, UT**

T. Jared Bunch, MD and John Day, MD

10:30 - 11:00 AM

**Break and Exhibits**

11:00 AM - 1:15 PM

**Stroke Prevention in Atrial Fibrillation**

**Moderators:** Elaine Hylek, MD, MPH and Daniel Singer, MD

All lectures 15 minutes; Q&A during panel discussion

**Real World Use of Novel Anticoagulants in AF: Insights and Limitations**

John Camm, MD

**PRN NOACs After “Successful” Catheter Ablation for AF**

Francis Marchlinski, MD

**Reversal Agents for Direct Thrombin and Factor XA Inhibitors**

Elaine Hylek, MD, MPH

**AF and Acute Coronary Syndromes: Trial Results and Clinical Recommendations**

Peter Kowey, MD

**Stroke Risk After Left Atrial Appendage Isolation**

Luigi Di Biase, MD, PhD

**Mechanical Left Atrial Appendage Closure: Patient Selection, Outcomes, Safety**

Dhanunjaya Lakkireddy, MD

**Hospital Admissions for AF in the NOAC Era: Annual Trends, Economic Impact and New Strategies**

Jeremy Ruskin, MD

1:15 - 2:45 PM

**Lunch and Exhibits**

**FRIDAY, JANUARY 13, 2017**

**Afternoon Scientific Session**

2:45 - 4:30 PM

**Mapping and Ablation of Atrial Fibrillation I: Lesion Formation and Durability in AF Ablation**

**Moderators:** Shih-Ann Chen, MD and Douglas Packer, MD

All lectures 15 minutes; Q&A during panel discussion

**Combining Input from Force, Power, Duration, Temperature, and Catheter Orientation for Accurate Lesion Assessment**

Moussa Mansour, MD

**Recent Advances in Energy Sources and Lesion Assessment Tools**

Vivek Reddy, MD

**Real-Time MRI for AF Ablation: Cryoballoon and RF**

Nassir Marrouche, MD

**Advances in Balloon Technologies for AF Ablation**

Karl-Heinz Kuck, MD

**New Generation Noninvasive Extracorporeal Ablation for AF**

Douglas Packer, MD

**Panel and Audience Q&A and Discussion**

30 minutes (All Faculty)

Moderator: Douglas Packer, MD

4:30 PM

**Adjourn**

**SATURDAY, JANUARY 14, 2017**

**Morning Scientific Session**

7:00 - 9:00 AM

**Mapping and Ablation of Atrial Fibrillation II: Beyond PVI Mechanistic Insights and Impact on Ablation Strategies**

**Moderator:** David Keane, MD, PhD

All lectures 15 minutes; Q&A during panel discussion

**Can Advanced Mapping Algorithms Be Rigorously Validated? - An FDA Scientist’s Viewpoint**

Richard Gray, PhD

**AF Mapping: Principles, Current Techniques and Limitations - Phase, Activation, and Optical Mapping for AF: Which One and When?**

Sanjiv Narayan, MD, PhD

**Long-Term Outcomes of FIRM-Guided Ablation: Incidence, Mechanisms & Predictors of Failure**

David Wilber, MD

**Single Center Experience with Catheter Ablation for Non-Paroxysmal AF**

Andrea Natale, MD

**Targeting Reentrant Drivers: Ablation Techniques and Endpoints**

Michel Haissaguerre, MD

**Characterization of Focal Activation in Patients with Persistent and Longstanding Persistent AF from Intraoperative High-Density Mapping**

Albert Waldo, MD
“Rotors” Detected by Phase Analysis of Filtered EGMs Identify Conduction Block and Not Rotating Wavefronts
Ulrich Schotten, MD, PhD

Long-Term Outcome of CFAE Guided Ablation of Longstanding Persistent AF: Why Our Results Differ from STAR AF II?
Young-Hoon Kim, MD, PhD

9:00 - 9:30 AM
Break and Exhibits

9:30 - 11:30 AM
Mapping and Ablation of Atrial Fibrillation II: Beyond PVI Mechanistic Insights and Impact on Ablation Strategies
Moderator: Francis Marchlinski, MD
All lectures 15 minutes; Q&A during panel discussion

New Findings with Ablation of Fibrotic Areas in Persistent AF
Hans Kottkamp, MD

Role of Non-Pulmonary Vein Triggers in AF Ablation
Francis Marchlinski, MD

Is Trigger Ablation Necessary to Abolish AF or Is PVI Alone As Effective?
Karl-Heinz Kuck, MD

Hybrid Alternatives for the Treatment of Persistent AF
Randall Lee, MD

Epicardial Mapping and Ablation in Repeat Ablation for Persistent AF: Preliminary Results of a Prospective Randomized Controlled Trial
Young-Hoon Kim, MD, PhD

New Observations on Post-Ablation Atrial Tachycardia
Pierre Jais, MD

Panel and Audience Q&A and Discussion
30 Minutes (All Faculty)
Moderators: Francis Marchlinski, MD

11:30 AM - 1:00 PM
Lunch and Exhibits
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<tr>
<th>Name</th>
<th>Affiliation</th>
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<tr>
<td>Luigi Di Biase, MD, PhD</td>
<td>Albert Einstein College of Medicine, Bronx, NY</td>
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<td>Jun Dong, MD, PhD</td>
<td>U.S. Food &amp; Drug Administration, Silver Spring, MD</td>
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<td>Asklepios Klinik St. Georg, Hamburg, Germany</td>
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<td>Mount Sinai Medical Center, New York, NY</td>
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<td>Cleveland Clinic Foundation, Cleveland, OH</td>
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<td>Roger Winkle, MD</td>
<td>Palo Alto Medical Foundation, Palo Alto, CA</td>
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GENERAL INFORMATION

A statement of credit will be issued only upon receipt of a completed activity evaluation form and will be emailed to you within 30 days.

CONFERENCE FEE
The conference fee is $1,195 for physicians and industry and $1,095 for residents, fellows and hospital-based nurses (with a certifying letter from your hospital). The conference fee includes the costs of tuition, syllabus materials, lunch and coffee breaks. All registrations will be confirmed via email. If you do not receive a confirmation please call 508-614-5413.

REGISTER ONLINE AT www.afsymposium.com

CANCELLATION POLICY
Requests for refunds or cancellations must be received on or before 11:59 PM EST on December 17, 2016. Refunds will not be granted after this date. Refunds are subject to a $100 processing fee. The AF Symposium is not responsible for airfare, hotel, or other costs incurred by participants in the event of program or registration cancellation. For further information contact: tkumpey@amecme.com. Note: In the event the 22nd Annual AF Symposium is abbreviated or canceled because of circumstances beyond the AF Symposium's control including, but not limited to, civil disturbance, earthquake, electrical outage, explosion, fire, freight embargo, strike or labor unrest, flood, hurricane, tornado or other acts of God, an act of war, terrorism, or the act of any government (de facto or de jure), or any government agency or official, the AF Symposium reserves the right, at the AF Symposium's sole discretion, to unilaterally terminate the symposium. In these circumstances, the registrant expressly agrees to waive any claim that he, she, or it may have against the AF Symposium for damages or compensation, including but not limited to fees for registration, housing, airfare, and incidental charges.

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The Postgraduate Institute for Medicine designates this live activity for a maximum of 26.7 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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Postgraduate Institute for Medicine (PIM) requires instructors, planners, managers and other individuals who are in a position to control the content of this activity to disclose any real or apparent conflict of interest (COI), which are thoroughly vetted and resolved according to PIM policy. The existence or absence of COI for everyone in a position to control content will be disclosed to participants prior to the start of each activity.

AMERICANS WITH DISABILITIES ACT
Event staff will be glad to assist you with any special needs (i.e. physical, dietary, etc.). Please contact Tammy Griffin-Kumpey no later than Tuesday, December 20, 2016 at tkumpey@amecme.com or 508-614-5413.

FOR MEETING INFORMATION CONTACT
Tammy Griffin-Kumpey
Advanced Medical Education
Tel: 508-614-5413 Fax: 508-519-0789
Email: tkumpey@amecme.com

Register online at www.afsymposium.com
STATEMENT OF NEED 2017

The Planning Committee has determined that there is a strong need for this conference based on the clinical and public-health significance of atrial fibrillation as the most common cardiac arrhythmia and a growing global epidemic, as well as rapid advances in the understanding of the mechanisms of and treatment options for this major public-health problem. This three-day symposium is designed to meet the following objectives:

1. Provide a current review of new information on the clinical science and pathophysiology of atrial fibrillation and atrial fibrillation-related stroke
2. Provide a detailed presentation of the most recent developments in the diagnosis and treatment of atrial fibrillation
3. Discuss the prevention of AF-related stroke and other sequelae, with an emphasis on current and evolving pharmacological and nonpharmacological therapies and enabling new technologies in the field of cardiac electrophysiology
4. Exchange thoughts and techniques with the treatment team to improve the outcome of patient care and treatment
5. Provide appropriate care and counsel for patients and their families through the education of healthcare professionals

The scientific basis for the clinical experience with new and existing therapies for atrial fibrillation and prevention of atrial fibrillation-related stroke will be explored. In addition to formal lectures, case presentations, case discussions, focused mini-symposia and faculty-audience interactions using an audience response system will be used to highlight the current state of scientific knowledge in areas of major importance to clinicians. The faculty is selected to provide the highest quality teaching and access to the most current scientific information from leading international experts in the field.

This symposium has been designed to meet the educational needs of cardiologists, internists, fellows, nurses and technicians involved in cases of patients with atrial fibrillation.

HOTEL ACCOMMODATIONS

The 22nd Annual AF Symposium housing block for the Hyatt Regency Orlando, the Grand Floridian or the Hyatt Regency Grand Cypress can be accessed on the meeting site through our registration page. In order to receive the special AF 2017 rate, you must obtain your housing through the AF Symposium site, www.afsymposium.com.