



Mayo School of Continuous Professional Development

# 4th Annual ECG and Heart Rhythm: A Case-Based Approach

December 3-6, 2015

FireSky Resort & Spa

Scottsdale, AZ

## Course Directors

*John F. Beshai, M.D.*

*Paul A. Friedman, M.D.*

*Komandoor Srivathsan, M.D.*

## Guest Faculty

*Hugh G. Calkins, M.D.*

John Hopkins Heart &  
Vascular Institute  
Baltimore, MD

*Sumeet S. Chugh, M.D.*

Cedars-Sinai Heart Institute  
Los Angeles, CA

*Bradley P. Knight, M.D.*

Bluhm Cardiovascular  
Institute of Northwestern  
Chicago, IL



## REGISTER NOW!

Registration and additional course information  
can be found on our NEW course website :  
[ce.mayo.edu/node/4624](http://ce.mayo.edu/node/4624)



## COURSE DESCRIPTION

This 4 half day course concentrates on general ECG understanding, guidelines on atrial fibrillation and CHF management. It is designed to allow health care professionals the opportunity to update their medical knowledge, enhance their clinical skills, and support their professional development through a dynamic curriculum. Attendees will realize important advances in the medical field and address educational needs and practice gaps. Through didactic lectures, case-study presentations, and audience interaction, this CME activity strives to develop and promote continuing medical education with the ultimate goal of enhancing patient care.

## COURSE LEARNING OBJECTIVES

Upon conclusion of this program, participants should be able to:

- Identify common ECG patterns
- Analyze the benefits of and barriers to the appropriate use of new and emerging oral anticoagulant therapies
- Describe the current guidelines, and new strategies for treatment of atrial fibrillation
- Discuss guidelines for ICD implantation
- Discuss simplified criteria for aberrancy or ventricular tachycardia
- Discuss early evaluation and acute management options for arrhythmias

Attendance at this Mayo course does not indicate nor guarantee competence or proficiency in the performance of any procedures which may be discussed or taught in this course.

## INTENDED AUDIENCE

This course offers sessions for all levels of professionals and is intended for general internists, hospitalists, family practitioners, and allied health staff participating in cardiac services.

## CREDIT

Mayo Clinic College of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Mayo Clinic College of Medicine designates this live activity for a maximum of 21.5 AMA PRA Category 1 Credits™. Physicians should claim only

the credit commensurate with the extent of their participation in the activity.

## AOA

This program has been accredited by the American Osteopathic Association for 21.5 credits of AOA Category 2-A.

## Other Health Care Professionals

A certificate of attendance will be provided to other health care professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.

## GRANTS AND EXHIBITS

At the time of this printing, a complete listing of commercial supporters (financial or in-kind) was not available. Appropriate acknowledgment will be given to all supporters at the time of the meeting.

Exhibits will be available for viewing at all scheduled breaks.

## DATE AND LOCATION

The 4<sup>th</sup> Annual Heart Rhythm & ECG Course: A Case Based Approach is held December 3-6, 2015. Course headquarters are located in FireSky Resort & Spa, Scottsdale, Arizona.

## REGISTRATION

To register online, visit [ce.mayo.edu/node/4624](http://ce.mayo.edu/node/4624) The registration fee includes tuition, electronic course syllabus, continental breakfasts and break refreshments. Although it is not Mayo School of Continuous Professional Development (CPD) policy to limit the number of registrants for a course, conference room facilities may necessitate closing of enrollment; therefore, early registration is advised. A letter of confirmation will be sent upon receipt of payment and completed registration form.

### Registration Fees

#### Physicians and Scientists:

On or before 11/03/15	\$625
After 11/03/15	\$700

#### Residents, Retirees, PAs and NPs

On or before 11/03/15	\$500
After 11/03/15	\$575

#### Optional Afternoon Sessions

Thursday Session	\$50
Friday Session	\$50
Saturday Session	\$50
All Three Sessions	\$100

## CANCELLATION POLICY

If you cancel your participation in this course, your registration fee, less a \$75 administrative fee, will be refunded when written notification is received by Mayo School of CPD on or before November 19, 2015 ([cme-jax@mayo.edu](mailto:cme-jax@mayo.edu) or fax#: 904-956-3096). No refunds will be made after November 19, 2015. Canceled registrations are non-transferable.

Mayo School of CPD reserves the right to cancel or postpone any course due to unforeseen circumstances. In the unlikely event Mayo School of CPD must cancel or postpone this course, Mayo School of CPD will refund the registration fee, but is not responsible for any related costs, charges, or expenses to participants, including fees assessed by airline/travel/lodging agencies.

### For additional information, contact:

Mayo School of Continuous Professional Development

Website: [ce.mayo.edu](http://ce.mayo.edu)

E-mail: [cme-jax@mayo.edu](mailto:cme-jax@mayo.edu)

Phone: 800-462-9633

Fax: 904-956-3096

## TRAVEL AND LODGING ACCOMMODATIONS

**FireSky Resort and Spa**  
**4925 North Scottsdale Road**  
**Scottsdale, AZ 85251**  
**(480) 945-7666**  
**[www.fireskyresort.com](http://www.fireskyresort.com)**

FireSky Resort and Spa has reserved limited block of luxurious guest rooms for attendees at a special group rate of \$199 (USD), single, double, triple and quad occupancy, per night. Group rates will apply three days prior to and three days following the course dates, based upon availability. Check-in time is after 4 P.M. and check-out is before noon. To make reservation, call 800-528-7867. When making a reservation, identify yourself as a participant of the "Mayo Clinic ECG Heart Rhythm Course". The resort fee has been waived and includes the following services: self and valet parking; Wi-Fi guest rooms and public areas; coffee service and evening wine hour in living room; seasonal beverages in living room and Paradise Pool; S'mores to enjoy at fire pits; 24 access to fitness center; 24 access to business center; maid and bell gratuities and daily newspaper.

If you love outdoor activities you will love the FireSky Resort and Spa in Scottsdale. Known for the year-round sunny weather, warm and arid

climate, Scottsdale offers great outdoor attractions from golfing, hiking, biking, horseback riding, hot-air balloon rides, desert Jeep tours, the Phoenix Zoo and much more. With over 20 different community parks and countless hiking trails to choose from staying inside will be a difficult task to accomplish. While taking a break from nature visit Old Town Scottsdale which is the heart and soul of the city and offers multiple activities from touring the Scottsdale Center for the Performing Arts, Museum of Contemporary Art, shopping at the Scottsdale Fashion Square, to observing more than 100 art galleries located in the Scottsdale Art District.

You may also wish to view [www.experiencescottsdale.com](http://www.experiencescottsdale.com) for recreation and leisure activities.

### Ground Transportation

Hertz is offering a reduced daily rate for participants attending the course. Visit Hertz online, [www.hertz.com](http://www.hertz.com), and enter convention number (CV) 03NR0010 in the respective "Discount or Promo Code" section. Special rates include unlimited mileage and are subject to availability. Advance reservations are recommended as cars are subject to availability; blackout dates may apply. SuperShuttle vans offer airport transportation to and from area hotels and businesses. To make reservations, call 800-258-3826 or 602-244-9000.

Mayo School of CPD is not responsible for expenses incurred by an individual who is not confirmed and for whom space is not available at the meeting. Costs incurred by the registrant such as airline or hotel fees or penalties are the responsibility of the registrant.

## FACULTY

### Mayo Faculty

*Jane L. Bazzell, R.N.*

*John F. Beshai, M.D.*

*Paul S. Bibby, R.N.*

*K. Chandrasekaran, M.D.*

*Robert D. Fisher, R.N.*

*Paul A. Friedman, M.D.*

*Stephen C. Hammill, M.D.*

*Susan E. Hendrick, P.A.-C.*

*Dawn E. Jaroszewski, M.D.*

*Fred Kusumoto, M.D.*

*Thomas M. Munger, M.D.*

*Linda J. Schwartz, R.N.*

*Luis R. Scott, M.D.*

*Win-Kuang Shen, M.D.*

*Dan Sorajja, M.D.*

*Komandoor Srivathsan, M.D.*

# PROGRAM AGENDA

Thursday, December 3, 2015

- 6:50 a.m. Registration and Continental Breakfast
- 7:15 Welcome and Introduction - *Komandoor Srivathsan, M.D.*
- 7:30 Myocardial Infarction: Localizing on case based approach?  
*Komandoor Srivathsan, M.D.*
- 7:55 SVT Basics and Differential Diagnosis - *Stephen C. Hammill, M.D.*
- 8:20 Aberrancy or Ventricular Tachycardia: How useful is aVR?  
*Dan Sorajja, M.D.*
- 8:45 Ventricular Tachycardia Location of Origin: Is it useful?  
*Paul A. Friedman, M.D.*
- 9:10 Questions and interact with speakers
- 9:30 Refreshment Break
- 10:00 Conduction System Disease Simplified - *Stephen C. Hammill, M.D.*
- 10:25 Surface ECG and Chamber Abnormalities - *Luis R. Scott, M.D.*
- 10:50 A Flutter, Pre-Excited Atrial Fibrillation, and Torsade  
*Win-Kuang Shen, M.D.*
- 11:15 Metabolic Changes, Ion Channel Problems and Unusual Problems  
*John F. Beshai, M.D.*
- 11:40 Twenty Essential ECGs - *Komandoor Srivathsan, M.D.*
- 12:15 p.m. Question and Answers
- 12:30 Lunch (on your own)
- 2:00 **Optional ECG Workshop-Live Interactive Session-Additional Fee**  
10 Difficult ECGs, How did we interpret? - *Stephen C. Hammill, M.D., Win-Kuang Shen, M.D., and Komandoor Srivathsan, M.D.*
- 3:00 p.m. Adjourn

## Friday, December 4, 2015

- 7:30 a.m. **Moderator:** *Hugh G. Calkins, M.D. and Komandoor Srivathsan, M.D.*  
Atrial Fibrillation: Sleep Apnea, Obesity and Risk Changes: Does it matter?  
*Paul A. Friedman, M.D.*
- 7:55 Rate Control Options: Medications and AV Nodal Ablation: Does strict rate control matter? - *Win-Kuang Shen, M.D.*
- 8:20 Guideline Directed Medications for Maintaining Sinus Rhythm  
*Hugh G. Calkins, M.D.*
- 8:45 Optimal Cases for Ablation? - *Komandoor Srivathsan, M.D.*
- 9:10 Stroke in Atrial Fibrillation- Guidelines for Anticoagulation  
*Bradley P. Knight, M.D.*
- 9:35 Panel Discussion
- 10:00 Refreshment Break
- 10:30 Thoracoscopic Mini Maze: Should it be performed after one failed percutaneous ablation? - *Dawn E. Jaroszewski, M.D.*
- 10:55 **Moderator:** *Stephen C. Hammill, M.D.* - Atrial Fibrillation – Debates  
Anticoagulation: Coumadin is the best if TTRs are Great  
*Pro: Hugh G. Calkins, M.D.*  
Con: Newer anticoagulants are better than Coumadin - *Bradley P. Knight, M.D.*
- 11:30 Ablation Should Be First Line Therapy - *Win-Kuang Shen, M.D.*  
Con: Ablation Should Only Be Performed if Medications Fail  
*Hugh G. Calkins, M.D.*
- 12:00 p.m. Atrial Fibrillation with Recurrent Bleeding: Control bleeding source or close appendage? - *Luis R. Scott, M.D.*
- 12:30 Lunch (on your own)



- 2:00 **Optional Workshop-Live Interactive Session-Additional Fee**  
Pacemaker/ ICD Issues - *Jane L. Bazzell, R.N., Paul S. Bibby, R.N., Robert D. Fisher, R.N., Paul A. Friedman, M.D., Linda J. Schwartz, R.N., Win-Kuang Shen, M.D., and Komandoor Srivathsan, M.D.*
- 3:00 p.m. Adjourn

## Saturday, December 5, 2015

- 6:50 a.m. Continental Breakfast
- 7:00 **Moderator:** *Paul A. Friedman, M.D.*  
Early Bird Special Session- Review on Interesting ECGs  
*Komandoor Srivathsan, M.D.*  
Ventricular Arrhythmias
- 7:30 Implantable Defibrillator Primary Prevention of Sudden Death:  
What do the guidelines say? - *Dan Sorajja, M.D.*
- 7:55 Sudden Death in the Young: Evaluation - *Sumeet S. Chugh, M.D.*
- 8:20 VT Electrical Storm? Medical and Ablation Management  
*John F. Beshai, M.D.*
- 8:50 How to Differentiate Benign From Pathological PVCs - *Win-Kuang Shen, M.D.*
- 9:15 Panel Discussion
- 9:30 Refreshment Break
- 10:00 Channelopathies: What should a generalist know? - *Win-Kuang Shen, M.D.*
- 10:25 PVCs and Cardiomyopathy Cases - *Fred Kusumoto, M.D.*
- 10:50 Commotio Cordis? - *Sumeet S. Chugh, M.D.*
- 11:20 QT Interval: When does it concern me? - *Fred Kusumoto, M.D.*
- 11:45 **Moderator:** *Sumeet S. Chugh, M.D.*  
Case Based Workshop: - Panelists: *Win-Kuang Shen, M.D. and Paul A. Friedman, M.D.* - First Case: Hemodynamically Unstable VT:  
*Fred Kusumoto, M.D.* - Second Case: Electrical Storm: - *Thomas M. Munger, M.D.*
- 12:30 p.m. Lunch (On your own)
- 2:00 **Optional Case Based Workshop-Additional Fee, Intracardiac, Electrogram**  
Panelists: *Thomas M. Munger, M.D., Win-Kuang Shen, M.D., Luis R. Scott, M.D.*  
Presenters: *John F. Beshai, M.D., Luis R. Scott, M.D., Komandoor Srivathsan, M.D.*
- 3:00 p.m. Adjourn

## Sunday, December 6, 2015

- 6:50 a.m. Continental Breakfast
- 7:00 **Moderator:** *Komandoor Srivathsan, M.D.*  
Early Bird Session: Learning From the 12-Lead ECG
- 7:30 POTS and Inappropriate Sinus Tachycardia Cases: How did I manage?  
*Win-Kuang Shen, M.D.*
- 7:55 Anticoagulation Management in Patients Undergoing Procedures With  
Warfarin and NOACs - *Susan E. Hendrick, P.A.-C.*
- 8:20 Exertional Syncope of the Young (<40 Yrs of age): Case Review  
*Thomas M. Munger, M.D.*
- 8:45 Event Recorder, Holter or Implantable Loop Recorder: Case examples of  
which should one choose? - *Dan Sorajja, M.D.*
- 9:10 Panel Discussion
- 9:30 Refreshment Break
- 10:00 Echocardiogram and Localization of Arrhythmia: Is it feasible? Case  
examples *K. Chandrasekaran, M.D.*
- 10:25 Heart failure and Biventricular Devices: What is the data? - *John F. Beshai, M.D.*
- 10:50 Remote Monitoring Helped These Patients in Heart Failure: Review of cases  
*Jane L. Bazzell, R.N.*
- 11:15 Newer Devices in Cardiac Electrophysiology - *Komandoor Srivathsan, M.D.*
- 11:40 Closing Remarks
- 12:00 p.m. Adjourn

MAYO 4500 San Pablo Road  
CLINIC Jacksonville, Florida 32224



SAVE  
THE  
DATE

December 1-4, 2016  
Fairmont Scottsdale  
Princess  
Scottsdale, AZ

ECG and Heart Rhythm:  
A Case-Based Approach



*FACULTY DISCLOSURE As a provider accredited by ACCME, Mayo Clinic College of Medicine (Mayo School of Continuous Professional Development) must ensure balance, independence, objectivity and scientific rigor in its educational activities. Course director(s), planning committee, faculty, and all others who are in a position to control the content of this educational activity are required to disclose all relevant financial relationships with any commercial interest related to the subject matter of the educational activity. Safeguards against commercial bias have been put in place. Faculty also will disclose any off-label and/or investigational use of pharmaceuticals or instruments discussed in their presentation. Disclosure of this information will be published in course materials so those participants in the activity may formulate their own judgments regarding the presentation.*

## NATIONAL PHYSICIAN PAYMENT TRANSPARENCY PROGRAM

Mayo Clinic College of Medicine complies with the requirements of the National Physician Payment Transparency Program OPEN PAYMENTS (Physician Payments Sunshine Act).

If you already received a copy of this brochure, please give this brochure to an interested colleague.

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