Electrophysiology in the West 2018: The Latest Advances in Arrhythmia Care

December 1, 2018

Li Ka Shing Center for Learning and Knowledge
Stanford University
Stanford, CA

STATEMENT OF NEED
Health care professionals who attend the Electrophysiology in the West conference will increase their fund of knowledge for the management of care for patients with cardiac arrhythmia. Content, delivered by expert faculty from Stanford and around the country, will include in-depth exploration of new advances in the mechanisms of cardiac fibrillation and cutting edge therapy for patients diagnosed with cardiac arrhythmia. Divided into four parallel tracks, the symposium is designed to meet individual learner needs to improve their base of knowledge and to promote effective management of cardiac arrhythmia by all members of the healthcare team. Lectures, videos, case presentations, panel discussions and Q&A will be utilized to optimize learning.

TARGET AUDIENCE
This is an international program designed for physicians, nurses, pharmacists, nurse practitioners, physician assistants, and allied health professionals specializing in cardiology, family practice, internal medicine, or primary care.

LEARNING OBJECTIVES
At the conclusion of this activity, participants should be able to:
• Outline current evidence regarding the basic mechanisms of arrhythmia and emerging therapies for cardiac fibrillation.
• Utilize key clinical criteria to identify, screen and refer appropriate patients who may benefit from catheter ablation.
• Develop strategies to manage patients prior to catheter ablation based on current guidelines.
• Manage patients with atrial fibrillation according to current clinical evidence and guideline recommendations.
• Integrate effective strategies for preventing atrial fibrillation and stroke in high risk patients.
FACULTY
All faculty members and conference planners are from Stanford University School of Medicine unless otherwise noted.

COURSE DIRECTORS
Paul J. Wang, MD
Primary Course Director
Professor of Medicine (Cardiovascular Medicine) and of Bioengineering (by courtesy)
Sanjiv M. Narayan, MD, PhD
Co-Course Director
Professor of Medicine (Cardiovascular Medicine)

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Assistant Professor of Cardiothoracic Surgery
George Liu
MD Student, Graduation Spring 2019

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Postdoctoral Research Fellow, Cardiovascular Medicine
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William G. Irwin Professor in Cardiovascular Medicine
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VA Palo Alto Healthcare System
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Director, Cardiac Electrophysiology
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Associate Professor of Medicine (Cardiovascular Medicine)
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The Li Ka Shing Professor in Cardiology, Medicine – Cardiovascular Medicine
Paul Yock, MD
The Martha Meier Weiland Professor in the School of Medicine
Professor of Bioengineering and, by Courtesy, of Mechanical Engineering

FACULTY DISCLOSURE
The Stanford University School of Medicine adheres to ACCME Criteria, Standards and Policies regarding industry support of continuing medical education. Disclosure of faculty and their commercial relationships will be made prior to the activity.

SATURDAY, DECEMBER 1, 2018 PROGRAM

7:30-8:00 am Registration and Continental Breakfast
8:00-10:10 Plenary Session
8:00-8:10 Opening Remarks, Announcement of Seed Grant Awardees
Paul J. Wang, MD; Sanjiv M. Narayan, MD, PhD; Thomas Quertermous, MD; Alan C. Yeung, MD; Paul Yock, MD
8:10-8:35 Genetics and Epidemiology of Arrhythmias
Marco Perez, MD
8:35-9:05 Atrial Fibrillation Ablation—Is Relieving Symptoms Good Enough?
Brad Knight, MD
9:05-9:40 Sudden Cardiac Arrest: What is Left to Solve?
Paul J. Wang, MD
9:40-10:10 Using Large Datasets to Guide Therapy
Nagiam Shah, MD
10:10-10:25 BREAK

TRACK 1: Stanford Center for Arrhythmia Research/Third Annual Conference On Human Cardiac Fibrillation

10:25-10:30 Welcome and Opening Statements
Sanjiv Narayan, MD, PhD; Paul Wang, MD
10:30-12:10 pm Part I. Basic Mechanisms for Cardiac Fibrillation
10:30-10:50 Triggers and Substrates for Fibrillation
Omer Berenfeld, PhD
11:00-11:05 SPEED TALKS
- Cellular Arrhythmia Mechanisms
  Vicki Parikh, MD
- Personalizing Therapy with Stem Cells
  Mark Mercado, PhD
- Basic Mechanisms for Cardiomyopathy
  Matthew Wheeler, MD
- Cellular and Tissue Modeling
  Colleen Clancy, PhD
- Novel Arrhythmia Mapping
  Zhenan Bao, PhD
- Stem Cells for Diagnosis
  Joe Wu, MD
- Translating Genetics to Epidemiology
  Marco Perez, MD
Panel Discussion
Zhenan Bao, PhD; Colleen Clancy, PhD; Mark Mercado, PhD; Vicki Parikh, MD; Marco Perez, MD; Matthew Wheeler, MD; Joseph Wu, MD
12:10-1:00 LUNCH
1:00-2:40 Part II. Translational Mechanisms for Cardiac Function
1:00-1:20 Mapping to Link Basic Mechanisms to Therapy
Vadim Fedorov, PhD
SATURDAY, DECEMBER 1, 2018 PROGRAM (continued)

1:20-2:00 SPEED TALKS
- ECG Diagnostic Algorithms
  Haghpahani Masoumeh, PhD
- Genetic Arrhythmias
  Colleen Caleshu, ScM, CGC
- Structural Substrates in Congenital Disease
  George Liu, MD
- Mapping Congenital Arrhythmias
  Scott Ceresnak, MD
- Machine Learning, Mapping
  Mahmood Alhusseini, MS
- Therapy, Congenital Arrhythmias
  Karamanana, MD
- Bench-to-Bedside—Ventricular Substrate
  Phil Yang, MD

2:20-2:40 BREAK

2:40-4:10 Part III. Cutting Edge Therapy for Cardiac Fibrillation
2:40-3:00 Future Therapy for Atrial Fibrillation, Ventricular Fibrillation
Bradley Knight, MD
3:00-4:00 SPEED TALKS
- Complex Arrhythmias
  Mohan Viswanathan, MD
- Congenital Heart Disease
  Anne Dubin, MD
- Heart Failure
  Jeff Teuteberg, MD
- Ventricular Arrhythmias
  Nitish Badhwar, MD
- Atrial Fibrillation
  Tina Baykaner, MD
- Surgical Arrhythmia Therapy
  Anson Lee, MD

4:00-4:10 Panel Discussion
Tina Baykaner, MD; Nitish Badhwar, MD; Anne Dubin, MD; Anson Lee, MD; Jeff Teuteberg, MD; Mohan Viswanathan, MD

4:10-4:20 Closing Comments and Adjourn
Paul J. Wang, MD; Sanjiv Narayan, MD, PhD

TRACK 2: Practical Arrhythmia Management: Expert-Guided Cases
10:25-10:30 Welcome and Opening Statements
Nitish Badhwar, MD
10:30-10:50 Management of Recurrent Ventricular or Implantable Cardioverter-Defibrillator Shocks
Nitish Badhwar, MD
10:50-11:10 Pearls for the Medical Management of Atrial Fibrillation
Mohan Viswanathan, MD
11:10-11:30 Anticoagulation Management
Chad Brodt, MD
11:30-11:50 Surgical Role in Treating Arrhythmia
Anson Lee, MD
11:50-12:10 pm Cases: Patient Selection for Atrial Fibrillation Ablation
Paul J. Wang, MD
12:10-1:00 LUNCH
1:00-1:20 Difficult Supraventricular Tachycardia Management
Mohan Viswanathan, MD
1:20-1:40 Management of Devices: What’s New?
Tina Baykaner, MD, MPH
1:40-2:00 Managing Orthostatic Hypotension
Safwan Jaradeh, MD
2:00-2:20 Postural Orthostatic Tachycardia Syndrome
Karen Friday, MD
2:20-2:40 Case Discussion Panel: Arrhythmia Case Management
Nitish Badhwar, MD; Tina Baykaner, MD, MPH; Karen Friday, MD

2:40-3:00 BREAK

3:00-3:20 Long QT Syndrome and Inherited Arrhythmia Disorders
Marco Perez, MD
3:20-3:40 Using Digital Health for Patient Management
Mintu Turakhia, MD, MAS
3:40-4:00 Atrial Fibrillation Management: Prevention and Risk Modification
Linda Ottoboni, RN, CNS, PhD
4:00-4:10 Discussion
4:10-4:20 Closing Comments and Adjourn
Chad Brodt, MD

TRACK 3: Arrhythmia Care From The Allied Health Professional Perspectives
10:25-10:30 Welcome and Opening Statements
Angela Tispefaral, NP
10:30-10:55 What Patients With Atrial Fibrillation Need in Order to Achieve Optimal Quality of Life
Linda Ottoboni RN, CNS, PhD
10:55-11:20 Unexplained Syncope in Patients with High and Low Risk for Sudden Cardiac Death
Gerilyn Schott NP
11:20-11:45 Leadless CEIDs (Micro-defibrillator, Subcutaneous Implantable Defibrillator and Wearable Defibrillator
Carlene Lugtu, RN
11:45-12:10 pm Inherited Arrhythmic Disorders
Allysonne Smith, NP; Colleen Bonnet, RN
12:10-1:00 LUNCH
1:00-1:25 Antiarrhythmics for Non-EP Providers
Theresa Regan, RN
1:25-1:50 New Evidence to Drive Management of Atrial Fibrillation
Kelly Cook, NP
1:50-2:15 Peri-procedural Management of Aanticoagulation
Aileen Anees, RN
2:15-2:30 BREAK
2:30-2:55 Tips for Reading Electrocardiograms in Patients with Devices
Aimee Lee, NP
2:55-3:20 It’s All About Timing: Pacemaker and Implantable Cardiac Defibrillator Basic Functions
James Robinson, NP
3:20-3:45 Using Device Therapy to Manage Heart Failure Patients
Christine Tacklind, NP
3:45-4:10 Case Study: Atrial Fibrillation in Infiltrative Heart Disease
Angela Tispefaral, NP
4:10-4:20 Closing Comments and Adjourn
Angela Tispefaral, NP

TRACK 4: Electrocardiography for Clinicians and Board Review
10:25-10:30 Welcome and Opening Statements
Nitish Badhwar, MD; Subramanian Krishnan, MD
10:30-11:10 Basic Overview & Fundamental Principles of Electrocardiography
Subramanian Krishnan, MD
11:00-11:30 Live Demonstration of Lead Placement Errors
Subramanian Krishnan, MD
11:30-12:00 pm Narrow QRS Tachycardia
Nitish Badhwar, MD
12:00-1:00 LUNCH
1:00-1:30 Wide QRS Complex Tachycardia Including Ventricular Tachycardia and Supraventricular Tachycardia With Aberrancy
Nitish Badhwar, MD
1:30-1:50 Electrolyte Abnormalities
Subramanian Krishnan, MD
1:50-2:15 Drug-induced Proarrhythmia
Subramanian Krishnan, MD
2:15-2:30 BREAK
2:30-3:00 ECG of Ischemia and Infarction
Subramanian Krishnan, MD
3:00-3:20 Bundle Branch Blocks
Nitish Badhwar, MD
3:20-4:10 Review with Question and Answer
Subramanian Krishnan, MD; Nitish Badhwar, MD
4:10-4:20 Closing Comments and Adjourn
Nitish Badhwar, MD; Subramanian Krishnan, MD

Opportunities for Q&A will be provided at the conclusion of each program section. Program is subject to change.

Register online at cme.stanford.edu/epwest
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**REGISTRATION**

Registration fee includes course materials, certificate of participation, breakfast and lunch.

<table>
<thead>
<tr>
<th>ATTENDEE TYPE</th>
<th>FEES (Early Bird Rate)</th>
<th>FEES (After 11/1/18)</th>
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<tbody>
<tr>
<td>Physicians</td>
<td>$285</td>
<td>$365</td>
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<tr>
<td>Nurses and Allied Health Professionals</td>
<td>$195</td>
<td>$265</td>
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Register online with Visa or Master Card by visiting cme.stanford.edu/epwest. If you prefer to pay by check or need assistance, please call (650) 497-8554 or email stanfordcme@stanford.edu. Be sure to register with an email address that you check frequently. Your email address is used for critical information, including registration confirmation, evaluation, and certificate.

**CANCELLATION POLICY**

Cancellations received in writing no less than 30 days before the course will be refunded, less a 20% administrative fee. No refunds will be made on cancellations received after that date. Please send cancellation requests to stanfordcme@stanford.edu. Stanford University School of Medicine reserves the right to cancel this program; in the event of cancellation, course fees will be fully refunded.

**NEARBY HOTELS**

Sheraton Palo Alto Hotel   (650) 328-2800  
The Westin Palo Alto     (650) 321-4422

Please contact the hotel directly to secure a reservation. Additional hotel options: [http://visit.stanford.edu/plan/lodging](http://visit.stanford.edu/plan/lodging)

**VISITING STANFORD UNIVERSITY**

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**CONTACT INFORMATION**

For questions about the symposium, please contact Mary Sisney, CME Conference Coordinator at (650) 724-7166 or msisney@stanford.edu.

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**CONFERENCE LOCATION**

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