



Stanford | MEDICINE



ELECTROPHYSIOLOGY IN THE WEST 2019

September 13, 2019 • 7:00 am – 4:15 pm

Li Ka Shing Center for Learning & Knowledge, Stanford University

STATEMENT OF NEED

The *Electrophysiology in the West* conference provides a comprehensive overview of the science and therapy of heart rhythm disorders, provided by world-renowned experts in a concise and exciting format. Plenary sessions will focus on the expanding role of digital health, wearables and other disruptive technologies in arrhythmia management. Rapid fire sessions including audience participation will include in-depth exploration of new advances in the mechanisms of cardiac fibrillation and inherited arrhythmias. 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 international program is designed for physicians, nurses, advanced practice nurses (APNs), and allied health professionals, specializing in Cardiovascular Health, Family Medicine and Community Health, and Internal Medicine.

LEARNING OBJECTIVES

- 1 Outline current evidence regarding the basic mechanisms of arrhythmia and emerging therapies for cardiac fibrillation.
- 2 Utilize key clinical criteria to identify, screen and refer appropriate patients who may benefit from catheter ablation.
- 3 Develop strategies to manage patients prior to catheter ablation based on current guidelines.
- 4 Manage patients with atrial fibrillation according to current clinical evidence and guideline recommendations.
- 5 Integrate effective strategies for preventing atrial fibrillation and stroke in high risk patients.

ACCREDITATION

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

CREDIT DESIGNATION

The Stanford University School of Medicine designates this live activity for a maximum of 6.50 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The California Board of Registered Nursing recognizes that Continuing Medical Education (CME) is acceptable for meeting RN continuing education requirements as long as the course is certified for AMA PRA Category 1 Credit™ (rn.ca.gov). Nurses will receive a Certificate of Participation following this activity that may be used for license renewal.

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.

COMMERCIAL SUPPORT ACKNOWLEDGEMENT

This CME activity is supported in part by educational grants. A complete list of commercial supporters will be published in the course syllabus.

REGISTER ONLINE

cme.stanford.edu/epwest

SPEAKERS

All faculty members are from Stanford University School of Medicine unless otherwise noted.

COURSE DIRECTORS

Paul J. Wang, MD

Professor of Medicine (Cardiovascular Medicine)

Sanjiv Narayan, MD, PhD

Professor of Medicine (Cardiovascular Medicine)

GUEST FACULTY

John Hummel, MD

Clinical Cardiac Electrophysiology

The Ohio State University Wexner Medical Center

Subramaniam “CK” Krishnan, MD

Cardiologist

Sutter Medical Center, Sacramento

Jonathan Salcedo, MD

Cardiologist

Sutter Health

Venkat N. Tholakanahalli, MD, FHRS

Professor of Medicine

University of Minnesota

STANFORD FACULTY

Nitish Badhwar, MD

Clinical Professor, Medicine-Cardiovascular Medicine

Zhenan Bao, PhD

K. K. Lee Professor in the School Of Engineering

Senior Fellow at the Precourt Institute for Energy

Professor, By Courtesy, of Materials Science and Engineering

and of Chemistry

Tina Baykaner, MD

Instructor, Medicine- Cardiovascular Medicine

Colleen Bonnett, RN

Nurse Coordinator, Arrhythmia Service

Chad Brodt, MD

Clinical Assistant Professor Medicine-Cardiovascular Medicine

Scott, Ceresnak, MD

Associate Professor of Pediatrics at the Lucile Packard Children’s Hospital

Henry Chubb, MD

Postdoctoral Research Fellow, Cardiothoracic Surgery

Ann Dubin, MD

Professor of Pediatrics (Pediatric Cardiology) at the

Lucile Packard Children’s Hospital

Neisha Fernandes, DNP

Nurse Practitioner, Stanford Health Care

Karen Friday, MD

Clinical Professor, Medicine-Cardiovascular Medicine

Marcia Glassford, RN

Clinical Nurse Coordinator, Arrhythmia Service

Safwan Jaradeh, MD

Professor of Neurology and, by courtesy, of Psychiatry and

Behavioral Sciences

Crystaljade Lau, CNS

Clinical Nurse Specialist I, Device Clinic/ Management

Aimee Lee, MS, CNS, ACNP-BC

Nurse Practitioner, Arrhythmia Service

Anson M. Lee, MD

Assistant Professor of Cardiothoracic Surgery

George Lui, MD

Clinical Associate Professor, Medicine – Cardiovascular Medicine

Clinical Associate Professor, Pediatrics – Cardiology

Felcynth May Marquez, CNS

Clinical Nurse Specialist I, Device Clinic/ Management

Mark Mercola, PhD

Professor of Medicine (Cardiovascular)

Kara Motonaga, MD

Clinical Associate Professor, Pediatrics – Cardiology

Sanjiv Narayan, MD, PhD

Professor of Medicine (Cardiovascular Medicine)

Duy Nguyen, MD

Clinical Associate Professor, Medicine (Cardiovascular Medicine)

Connor G. O’Brien, MD

Postdoctoral Medical Fellow, Cardiovascular Medicine

Victoria Parikh, MD

Clinical Instructor, Medicine –Cardiovascular Medicine

Postdoctoral Research Fellow, Cardiovascular Medicine

Marco Perez, MD

Associate Professor of Medicine (Cardiovascular Medicine)

Alex Perino, MD

Postdoctoral Medical Fellow, Cardiovascular Medicine

Thomas Quertermous, MD

William G. Irwin Professor in Cardiovascular Medicine

Theresa Regan, RN

Nurse Coordinator, Arrhythmia Service

Chloe Reuter, MS, LCGC

Genetic Counselor, Stanford Center for Undiagnosed Diseases

James Robinson, NP

Nurse Practitioner, Arrhythmia Servicew

Gerilynn M. Schott, MSN, ACNP-BC

Acute Nurse Practitioner

Stanford Health Care

Allysonne Smith, NP

Nurse Practitioner, Arrhythmia Service

Christine Tacklind, NP

Nurse Practitioner, Arrhythmia Service

Angela Tsiperfal, CNS, ACNP-BC, CCDS, FHRS

Nurse Practitioner, Arrhythmia Service

Mintu Turakhia, MD, MAS

Director, Cardiac Electrophysiology

Associate Professor of Medicine (Cardiovascular Medicine), VA Palo Alto

Mohan Viswanathan, MD

Clinical Associate Professor of Medicine, Cardiovascular Medicine

Paul J. Wang, MD

Professor of Medicine (Cardiovascular Medicine) and of Bioengineering (by courtesy)

Joseph C. Wu, MD, PhD

Simon H. Stertzer, MD, Professor and Professor of Radiology,

Medicine–Cardiovascular Medicine

Alan Yeung, MD

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

PROGRAM

Friday, September 13, 2019

7:00 – 8:00 am	Registration and Continental Breakfast
8:00 – 8:10 am	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 – 8:40 am	Digital Health- The Ultimate Disruption? • Mintu Turakhia, MD, MAS
8:40 – 9:10 am	Addressing the Complex Arrhythmia Epidemic • John Hummel, MD
9:10 – 9:40 am	The Apple Heart Study • Marco Perez, MD
9:40 – 10:10 am	Will Shared Decision-Making Improve Patient Outcomes? • Paul J. Wang, MD
10:10 – 10:25 am	Break

STANFORD CENTER FOR ARRHYTHMIA RESEARCH / 4TH ANNUAL CONFERENCE ON HUMAN CARDIAC FIBRILLATION

10:25 – 10:30 am Welcome and Opening Statements • Sanjiv Narayan, MD, PhD, Paul Wang, MD

PART I: BASIC MECHANISMS FOR ATRIAL, VENTRICULAR FIBRILLATION

10:30 – 10:50 Defining Fibrillatory Mechanisms to Guide Therapy • Sanjiv Narayan, MD PhD

10:50 – 11:50

Speed Talks

Decoding Variants of Unclear Significance with IPSC • Joseph C. Wu, MD, PhD

Mechanisms for Congenital Arrhythmias • Scott Ceresnak, MD

Subclinical (device-detected) AF: Treatment Thresholds, Evidence Gaps, and What's on the Horizon • Alex Perino, MD

Stem Cells to Ameliorate Arrhythmic Substrate • Connor G. O'Brien, MD

Predicting Drug Response Using Stem Cells • Mark Mercola, MD

Applying Genetics to Classify Patients • Marco Perez, MD

11:50 am – 12:10 pm Panel Discussion • Joseph C. Wu, MD, PhD, Scott Ceresnak, MD, Connor G. O'Brien, MD, Mark Mercola, MD, Marco Perez, MD

12:10 – 1:00 pm **Lunch**

PART II: TRANSLATIONAL MECHANISMS FOR CARDIAC FIBRILLATION

1:00 – 1:20 pm Atrial Fibrillation Mapping – Clinical and Translational Perspectives • John Hummel, MD

1:20 – 2:00 pm Speed Talks: Mechanisms to Therapy

Common Arrhythmia Mechanisms in Adult and Congenital Heart Disease Patients • Ann Dubin, MD

Mechanisms for SCD In Undiagnosed Patients • Victoria Parikh, MD

Genetics of Arrhythmias • Chloe Reuter, MS, LCGC

Imaging of Structural Arrhythmic Substrate • Henry Chubb, MD

Novel Arrhythmia Mapping • Zhenan Bao, PhD

Invasive and Non-Invasive Therapy for Congenital Arrhythmias • Kara, Motonaga, MD

Translating Arrhythmia Mechanisms to the Clinic • Karen Friday, MD

2:00 – 2:20 pm Panel Discussion • Ann Dubin, MD, Victoria Parikh, MD, Chloe Reuter, MS, LCGC, Henry Chubb, MD, Zhenan Bao, PhD, Kara Motonaga, MD, Karen Friday, MD

2:20 – 2:40 pm **Break**

PART III: CUTTING EDGE THERAPY FOR CARDIAC FIBRILLATION

2:40 – 3:10 pm Future Therapies for Ventricular Tachycardia /Ventricular Fibrillation • Venkat N. Tholakanahalli, MD, FHRS

3:10 – 4:00 pm Speed Talks: Cutting Edge Therapies

Idiopathic Ventricular Arrhythmias • Nitish Badhwar, MD

VT Ablation in Ischemic Cardiomyopathy • Mohan Viswanathan, MD

VT Ablation in Non-Ischemic Cardiomyopathy • Mohan Viswanathan, MD

Ablation of Papillary Muscle VA • Nitish Badhwar, MD

Role of Epicardial Ablation in VT • Mohan Viswanathan, MD

How to Optimize Ablation Energy Delivery? • Duy Nguyen, MD

Emerging Therapies: What Should be Our Research Priorities? • Paul J. Wang, MD

4:00 – 4:10 pm Panel Discussion • Nitish Badhwar, MD, Mohan Viswanathan, MD, Duy Nguyen, MD, Paul J. Wang, MD

4:10 – 4:15 pm Closing Comments and Adjourn • Paul J. Wang, MD and Sanjiv Narayan, MD, PhD

TRACK 1

TRACK 2

PRACTICAL ARRHYTHMIA MANAGEMENT: EXPERT-GUIDED CASES

10:25 – 10:30 am	Welcome and Opening Statements • Nitish Badhwar, MD
10:30 – 10:45 am	How I Manage AF with Medical Management: Tips and Pearls • Mohan Viswanathan, MD
10:45 – 11:00 am	AF Ablation Techniques • Tina Baykaner, MD
11:00 – 11:20 am	Role of Surgery for Arrhythmia Treatment • Anson Lee, MD
11:20 – 11:35 am	How I Select Patients for Atrial Fibrillation Ablation: Cases • Paul J. Wang, MD
11:35 – 11:50 am	How I Select Patients for PVC and Ventricular Tachycardia Ablation: Cases • Duy Nguyen, MD
11:50 am – 12:10 pm	How I Perform Complex Ventricular Tachycardia Ablation • Nitish Badhwar, MD
12:10 – 1:00 pm	Lunch
1:00 – 1:20 pm	Novel Concepts in Sinus Node Disease • Chad Brodt, MD
1:20 – 1:40 pm	How I Manage Orthostatic Hypotension • Safwan Jaradeh, MD
1:40 – 2:00 pm	How I Manage Postural Orthostatic Tachycardia Syndrome • Karen Friday, MD
2:00 – 2:20 pm	Advances in Imaging Congenital Heart Disease • George Lui, MD
2:20 – 2:40 pm	Break
2:40 – 3:00 pm	Interdisciplinary Partnerships in Congenital Arrhythmias • Ann Dubin, MD
3:00 – 3:20 pm	How I Manage Long QT Syndrome and Inherited Arrhythmia Disorders • Marco Perez, MD
3:20 – 3:40 pm	How to Use Digital Health for Patient Management • Mintu Turakhia, MD, MAS
3:40 – 4:00 pm	AF Prevention and Risk Modification • Paul J. Wang, MD
4:00 – 4:10 pm	Discussion
4:10 – 4:15 pm	Closing Comments and Adjourn • Chad Brodt, MD

TRACK 3

ALLIED HEALTH PROFESSIONALS

10:25 – 10:50 am	Holistic Approach to Managing Patients with Atrial Fibrillation • Angela Tsiperfal, CNS, ACNP-BC, CCDS, FHRS
10:50 – 11:15 am	PVC and Non-Emergent Management of VT • Gerilynn M. Schott, MSN, ACNP-BC
11:15 – 11:40 am	Leadless CIEDs (Micro, SICD, Lifevest) • Crystaljade Lau, CNS
11:40 am – 12:05 pm	Inherited Arrhythmic Disorders • Allysonne Smith NP, Colleen Bonnet, RN
12:05 – 1:00 pm	Lunch
1:00 – 1:25 pm	Antiarrhythmics for Non-EP Providers • Theresa Regan, RN
1:25 – 1:50 pm	Peri-procedural Management of Anticoagulation • Marcia Glassford, RN
1:50 – 2:15 pm	Evaluation of Patient with Unexplained Syncope • Neisha Fernandes, DNP
2:15 – 2:30 pm	Break
2:30 – 2:55 pm	It's all about Timing: Pacemaker and ICD Basic Function • Felcynth May Marquez, CNS, Crystaljade Lau, CNS
2:55 – 3:15 pm	Tips for ECG/Rhythm Strips Reading in Patients with Devices • Aimee Lee, MS, CNS, ACNP-BC
3:15 – 3:45 pm	Using Implantable Cardiac Devices to Guide Clinical Management • James Robinson, NP
3:45 – 4:10 pm	Using Device Therapy to Manage Patients with Heart Failure • Christine Tacklind, NP
4:10 – 4:15 pm	Closing Comments and Adjourn • Angela Tsiperfal, CNS, ACNP-BC, CCDS, FHRS

TRACK 4

BREAKOUT SESSION – ECGs FOR CLINICIANS AND BOARD REVIEW

10:25 – 10:30 am	Welcome • Nitish Badhwar, MD and Subramanian Krishnan, MD
10:30 – 11:10 am	Underlying Principles of Electrocardiography • Subramanian Krishnan, MD and Jonathan Salcedo, MD
11:10 – 11:35 am	Live Demonstration of Lead Placement Errors • Subramanian Krishnan, MD
11:35 – 12:10 am	Narrow QRS Tachycardias • Nitish Badhwar, MD
12:10 – 1:00 pm	Lunch
1:00 – 1:30 pm	Wide QRS Tachycardias including SVTs with aberrancy • Nitish Badhwar, MD
1:30 – 1:50 pm	Electrolyte Abnormalities • Subramaniam Krishnan, MD
1:50 – 2:15 pm	Drug-induced Proarrhythmia • Subramaniam Krishnan, MD
2:15 – 2:35 pm	Break
2:35 – 3:00 pm	ECG of Ischemia & Infarction • Subramaniam Krishnan, MD
3:00 – 3:20 pm	ECG recordings with smart phones • Subramaniam Krishnan, MD
3:20 – 4:10 pm	Review with Questions and Answers • Nitish Badhwar, MD and Subramaniam Krishnan, MD
4:10 – 4:15 pm	Closing Comments and Adjourn

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ELECTROPHYSIOLOGY IN THE WEST 2019

September 13, 2019

A Continuing Medical Education Conference presented by
the Department of Medicine, Cardiovascular Division at
the Stanford University School of Medicine.

Sponsored by the Stanford University School of Medicine

REGISTER TODAY! cme.stanford.edu/epwest

Registration fee includes:

- Course Materials
- Certificate of Participation
- Breakfast and Lunch

Attendee Type	Early Bird Rate	After 8/13/19
Physicians	\$285	\$365
Nurses and Allied Health Professionals	\$195	\$265

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CANCELLATION POLICY

Cancellations received in writing no less than 20 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 or postpone this program if necessary; in the event of cancellation, course fees will be fully refunded. We are not responsible for other costs incurred such as non-refundable airline tickets or hotel penalties.

CONFERENCE LOCATION

Li Ka Shing Center for Learning & Knowledge
291 Campus Drive, Stanford, CA 94305 • Phone: (650) 725-6884

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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