Session SP08. ALLIED COMMUNITY OF PRACTICE
BREAKFAST

Special Session
Room 120, Moscone North 7 - 7:45 a.m.
Special Session

Session Description: Network with the Allied Community of Practice leaders and members while learning about the activities and opportunities available within the Community. Provide your input, questions, and suggestions as we share exciting plans

7 a.m. 
Moderators
Sarah Worsnick, PA. Geisinger Heart Institute, Wilkes Barre, PA
Ruth A. Madden, RN, MPH. Cleveland Clinic, Cleveland, OH

Session 001. CAN MRI BE SAFELY PERFORMED IN A PATIENT WITH A NON-MRI APPROVED CIED?
Cardiovascular Implantable Electronic Devices - Device and Lead Management Considerations, including Lead Extraction
Room 3018, Moscone West 8 - 8:45 a.m.
Debate  F PM
CME/CE Hours: 0.75
Supported by an unrestricted educational grant provided by Boston Scientific.

Session Description: This session is dedicated to the specific problem of MRI in patients without MRI-compatible devices
Chair: Henry R. Halperin, MD. Johns Hopkins University, Baltimore, MD

8:05 a.m. 
An MRI Can be Safely Performed in All Patients With Non-MRI Approved CIEDs
Sam Nazarian, MD, PhD, FHRs. Johns Hopkins University, Baltimore, MD

8:20 a.m. 
An MRI Can Not be Safely Performed in All Patients With Non-MRI Approved CIEDs
Matthew R. Reynolds, MD, MS. Beth Israel Deaconess Medical Center, Boston, MA

8:35 a.m. 
Rebuttal
Sam Nazarian, MD, PhD, FHRs. Johns Hopkins University, Baltimore, MD

8:40 a.m. 
Rebuttal
Matthew R. Reynolds, MD, MS. Beth Israel Deaconess Medical Center, Boston, MA

Session 002. AF ABLATION IN 2016: “SIZE MATTERS” AND OTHER FACTS
Allied Professionals - Ablation of AF and Atrial Flutter (including surgical ablation)
Room 130, Moscone North 8 - 9:30 a.m.
Core Curriculum  PM
CME/CE Hours: 1.5
ASRT/ARRT: DCD0056093

Session Description: This session is geared towards what's new in AF ablation including different mapping techniques and catheters as well as patient specific characteristics that can affect immediate and long term results.
Chairs: 
Monica Pammer, PA-C. University of Pennsylvania, Philadelphia, PA
Amy Kleinhans. , AZ

8 a.m. 
Risk Factor Modification to Improve Outcome-Weight Reduction, Sleep Apnea, and Hypertension
Melissa E. Middeldorp. Centre for Heart Rhythm Disorders, Adelaide, Australia

8:30 a.m. 
Morphological Variations that Affect Results-Scarring, Enlarged LA, and Previous Surgery
Pasquale Santangeli, MD. Hospital of the University of Pennsylvania, Philadelphia, PA

9 a.m. 
Catheters, Techniques, and Lesion Sets-What are the Expected Results?
Luigi Di Biase, MD, PhD, FHRs, FACC. Albert Einstein College of Medicine at Montefiore Hospital, New York, NY

Session 003. REMOTE MONITORING: BEST PRACTICES FOR THE BEST RESULTS
Allied Professionals - Device and Lead Management Considerations, including Lead Extraction
Room 132, Moscone North 8 - 9:30 a.m.
Core Curriculum  F PM
CME/CE Hours: 1.5

Session Description: This session will explore best practices in remote monitoring of CIEDs including management of alerts, medical/legal implications, improving patient, physician and hospital/system compliance as well as strategies to create clin
Chairs: 
Robin A. Leahy, RN, BSN, FHRS, CCDS. Sanger Heart & Vascular Institute, Charlotte, NC
Douglas S. Beinborn, MA, BSN. Mayo Clinic, Rochester, MN

8 a.m. 
Remote Monitoring Alerts: Managing the Data Flow and the Medical and Legal Implications
Julie B. Shea, MS, RNCS, FHRS, CCDS. Brigham and Women's Hospital, Boston, MA

8:30 a.m. 
Novel strategies to improve Clinical Efficiencies and work flow with Remote Monitoring
Amanda Sowell, RN, BSN, CCDS. Carolinas Healthcare System - Sanger Heart & Vascular Institute, Shelby, NC

9 a.m. 
Improving Remote Monitoring Compliance by Patients, Physicians and Hospital Systems: What are the Real Barriers?
Elizabeth E. Davenport, RN, CCDS. Sanger Heart and Vascular Institute, Charlotte, NC

Session JS01. STEERING THROUGH THE DIAGNOSTIC ODYSSEY FOLLOWING SUDDEN UNEXPLAINED DEATH

Allied Professionals
Room 2001, Moscone West 8 - 9:30 a.m.
Joint Session
CME/CE Hours: 1.5
National Society of Genetic Counselors and SADS
THURSDAY

Session Description: This session will review the utility of a molecular autopsy, help clinicians evaluate some of the obstacles and demonstrate the family perspective.

Chairs: Alice Lara. SADS Foundation, Salt Lake City, UT
Amy Sturm. Ohio State University Medical Center, Columbus, OH

8:05 a.m. The Impact of Genetic Counseling and Testing
Heather M. MacLeod, MS. SDY Case Registry, Elmhurst, IL

8:25 a.m. What Role Does a Molecular Autopsy Play, and How Often is it Informative?
Michael J. Ackerman, MD, PhD. Mayo Clinic, Rochester, MN

8:45 a.m. Simplifying the Complexities of Post-Mortem Genetic Testing
Melissa Dempsey. Ambry Genetics, Aliso Viejo, CA

9:05 a.m. The Family and The Need for an Answer
Brynn Dechert-Crooks, CPNP, FHRS. University of Michigan, Ann Arbor, MI

Session Description: This session will focus on new concepts involving identification of patients with MVP who are at risk for ventricular arrhythmias and sudden death.

Chairs: Gaetano Thiene, MD. University of Padua, Padua, Italy
Cristina Basso, MD, PhD. University of Padua, Padova, Italy

8:05 a.m. Mitral Valve Prolapse - Not Only a Hemodynamic Problem
Michael J. Ackerman, MD, PhD. Mayo Clinic, Rochester, MN

8:25 a.m. Mitral Valve Prolapse and the Substrate for Sudden Arrhythmic Death
Cristina Basso, MD, PhD. University of Padua, Padova, Italy

8:45 a.m. Will MVP Genetics Aid Risk Stratification?
David J. Milan, MD. Massachusetts General Hospital, Charlestown, MA

9:05 a.m. Role for Cardiac EP Testing and Ablation Procedures
Roy M. John, MD, PhD, FHRS, CCDS. Brigham and Women's Hospital, Boston, MA

Session Description: This session will discuss the role of an ICD in patients with genetic heart diseases who present with unexplained syncope.

Chair: Jayanthi N. Koneru, MD, CCDS. VCU Medical Center, Richmond, VA

8:05 a.m. ICDs in HCM Patients Presenting with Syncope
William J. McKenna, MD. The Heart Hospital, London, United Kingdom

8:25 a.m. ICDs in Sarcoiud Patients with Presenting Syncope
William H. Sauer, MD, FHRS, CCDS. University of Colorado, Aurora, CO

8:45 a.m. ICDs in LQTS Patients Presenting with Syncope
Wojciech Zareba, MD, PhD. University of Rochester Medical Center, Rochester, NY

9:05 a.m. ICDs in Brugada Patients Presenting with Syncope
Elena Arbelo, MD, PhD. Hospital Clinic - University of Barcelona, Barcelona, Spain

Session Description: This session will explain medical, ethical, and medico-legal issues in patients with indication to ICD nearing end of life and requesting withdrawal of therapy.

Chairs: Luigi Padeletti, PhD. Universitaria Careggi, Florence, Italy
Emanuela T. Locati. Niguarda Hospital, Milano, Italy

8:05 a.m. The Dimension of the Problem
Bruce L. Wilkoff, MD, FHRS, CCDS. Cleveland Clinic, Cleveland, OH

8:25 a.m. Ethical and Medicolegal Considerations
Charles R. Kerr, MD, FHRS. St. Paul's Hospital, Vancouver, BC, Canada

8:45 a.m. When to Deactivate and How to Talk to Patients
Rachel Lampert, MD, FHRS. Yale University School of Medicine, New Haven, CT

9:05 a.m. Special Considerations in Patients Over 80
Raphael P. Martins, MD, PhD. Centre-Cardio Pneumologique, CHU de Rennes, Rennes, France

Session Description: An overview of what is needed to advance lead management internationally

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Session 008. TRANSSEPTAL PUNCTURE: TACKLING CHALLENGING CASES WHILE AVOIDING COMPLICATIONS

Catheter Ablation - Ablation of AF and Atrial Flutter (including surgical ablation)

Room 2020, Moscone West

Case Based Tutorial

CME/CE Hours: 1.5

Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

Session Description: This session provides a detailed treatment of the challenges to, and solutions for, safe transseptal puncture in a wide variety of anatomical situations.

Chair: Roberto De Ponti, MD, FHRS. University of Insubria, Varese, Italy

8:05 a.m. Standard and Adjunctive Tools to Facilitate Transseptal Puncture: Do They Add Value?
Jonathan C. Hsu, MD, MAS, FHRS. University of California - San Diego, San Diego, CA

8:25 a.m. Choosing the Precise Point of Septal Puncture: When Does it Make a Difference?
Gian Battista Chierchia, MD, PhD, Professor in Cardiology, Heart Rhythm Management Center, UZ Brussels-VUB, Brussels, Belgium

8:45 a.m. Transchamber Access in Children and Adults with Repaired Congenital Heart Disease: Overcoming the Challenges
John K. Triedman, MD, FHRS, CCDS, CEPS. Boston Children’s Hospital, Boston, MA

9:05 a.m. Transseptal Access Following Atrial Septal Repair or Multiple Prior Transseptal Punctures
Gregory E. Supple, MD. Hospital of the University of Pennsylvania, Philadelphia, PA

Session 009. COMPLICATIONS OF VT/PVC ABLATION

Catheter Ablation - Ventricular Tachycardia & Ventricular Fibrillation: Management, Mechanisms, Diagnosis, and Ablation

Room 2010, Moscone West

Complication Theatre

8:05 a.m. Complications Resulting from PVC/VT Ablation

9:05 a.m. Complications Resulting from PVC/VT Ablation

Session 010. LESSONS LEARNED FROM RECENT CLINICAL TRIALS OF ABLATION OF AF

Catheter Ablation - Ablation of AF and Atrial Flutter (including surgical ablation)

Room 3022, Moscone West

Core Curriculum

CME/CE Hours: 1.5

Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

Session Description: This study will review some of the recently presented clinical trials in atrial fibrillation.

Chairs: Johannes Brachmann, MD, PhD. Klinikum Coburg, Coburg, Germany
Jonathan P. Piccini, MD, MHS, FHRS. Duke University Medical Center, Durham, NC

8:05 a.m. ADVICE Trial
Laurent Macle, MD. Montreal Heart Institute, Montreal, QC, Canada

8:25 a.m. AATAC Trial
Luigi Di Biase, MD, PhD, FHRS, FACC. Albert Einstein College of Medicine at Montefiore Hospital, New York, NY

8:45 a.m. STAR AF II
Atul Verma, MD, FHRS. Southlake Regional Health Centre, Newmarket, ON, Canada

9:05 a.m. LEGACY
Dennis H. Lau, MBBS, FHRS. Royal Adelaide Hospital and Adelaide University, Adelaide, Australia

Session JS02. CATHETER ABLATION OF ARRHYTHMIAS IN CONGENITAL HEART DISEASES

Catheter Ablation

Room 303, Moscone South

Joint Session

CME/CE Hours: 1.5

MENA Heart Rhythm Society

Session Description: This session offers a unique opportunity to get a state-of-the-art update on the catheter ablation of cardiac
arrhythmias in the setting of CHD. In their presentations the experts will particularly focus on challenging cases wi

**Chairs:** Ali Oto, MD, FHRS, Hacettepe University School of Medicine, Ankara, Turkey
Mohammad Shenasa, MD, PhD. O'Connor Hospital - Heart and Rhythm Medical Group, San Jose, CA

**8 a.m.** Ablation of AVNRT in Patients with Congenital Heart Diseases
Adel K. Hamad. Bahrain Defence Force Hospital, Muharrak, Bahrain

**8:15 a.m.** Ablation of Accessory Pathways in Patients with Congenital Heart Diseases
Waled Al-Manea, MD, King Faisal Hospital and Research Center, Saudi Arabia

**8:30 a.m.** Challenging Cases of Atrial Tachycardia Ablation in Patients with Congenital Heart Diseases
Mostafa Nawar. Alexandria University, Alexandria, Egypt

**8:45 a.m.** Challenging Atrial Flutter Ablation Cases in Patients with Congenital Heart Diseases
Marwan Refaat, MD, FHRS. American University of Beirut Faculty of Medicine and Medical Center, Beirut, Lebanon

**9 a.m.** Challenging Atrial Fibrillation Ablation Cases in Patients with Congenital Heart Diseases
Moussa Mansour, MD, FHRS. Massachusetts General Hospital, Boston, MA

**9:10 a.m.** Challenging Ventricular Tachycardia Ablation Cases in Patients with Congenital Heart Diseases
Ali Oto, MD, FHRS. Hacettepe University School of Medicine, Ankara, Turkey

**9:20 a.m.** Substrate Mapping and Catheter Ablation of Ventricular Tachycardia After Right Ventriculotomy
George F. Van Hare, MD, FHRS, CCDS, CEPS. Washington University, St. Louis, MO

**Session 011. NEW STRATEGIES TO MINIMIZE OCCUPATIONAL HAZARDS IN THE EP LAB**
Clinical Electrophysiology - SVT/AVNRT/WPW/AT Management, Mechanisms, Diagnosis, and Ablation
Room 3003, Moscone West 8 - 9:30 a.m.
Core Curriculum ARS F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

**Session Description:** This session will provide an overview how to apply adequate personal protection

**Chairs:** Eric J. Rashba, MD, FHRS. Stony Brook Medicine, Stony Brook, NY
Marmar Vaseghi, MD, MS, FHRS. University of California - Los Angeles, Los Angeles, CA

**8:05 a.m.** Personal Radiation Exposure: How Much can it be Avoided?
Dipen C. Shah, MD, FHRS. Hopital Cantonal De Geneve, Geneva, Switzerland

**8:25 a.m.** ZERO or Near-ZERO Exposure in Ablation and Device Procedures
Juergen Schreieck, MD. Medical University of Tuebingen, Tuebingen, Germany

**8:45 a.m.** Choice of Imaging Techniques and Settings to Achieve Optimal Reduction of Radiation Exposure
Tom De Potter, MD. OLV Hospital, Aalst, Belgium

**9:05 a.m.** How to Avoid Orthopedic Problems During your EP Career
David H. Birnie, MD. University of Ottawa Heart Institute, Ottawa, ON, Canada

**Session 012. HOW TO PERFORM VT ABLATION IN DIFFICULT SCENARIOS AND RARE DISEASES**
Clinical Electrophysiology - Ventricular Tachycardia & Ventricular Fibrillation: Management, Mechanisms, Diagnosis, and Ablation
Room 3014, Moscone West 8 - 9:30 a.m.
How-To F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

**Session Description:** This session will explain the techniques and technologies available to address VT ablation in challenging situations.

**Chairs:** Jose M. Tolosana, MD, Hospital Clinico De Barcelona, Barcelona, Spain
David J. Wilber, MD, FHRS, CCDS. Loyola University Chicago, Maywood, IL

**8:05 a.m.** VT Ablation in the Presence of Double Valve Replacement: The Role of Ventricular Transseptal Access
Kalyanam Shivkumar, MD, PhD, FHRS. University of California - Los Angeles, Los Angeles, CA

**8:25 a.m.** Innovative Access for VT Ablation in Repaired Congenital Heart Disease
Katja Zeppenfeld, MD, PhD. Leiden University Medical Center, Leiden, Netherlands

**8:45 a.m.** Access Following Surgical Intervention: The Difficult Epicardial Access
William G. Stevenson, MD, FHRS. Brigham and Women's Hospital, Boston, MA

**9:05 a.m.** VT Ablation in Patients with Cardiac Sarcoïdosis
Kyoko Soejima, MD. Kyorin University Hospital, Mitaka-city, Japan

**Session 013. DEVICE THERAPY FOR HEART FAILURE: THINKING OUTSIDE THE BOX!**
Heart Failure - Implantable Monitors, Sensors, and Novel CIED Devices
Room 2003, Moscone West 8 - 9:30 a.m.
Core Curriculum F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Amgen

**Session Description:** This session will review emerging treatment options and procedures in HF patients. The sessions explores the role of His bundle pacing, baroreflex activation, cardiac contractility modulation and LV partitioning.

**Chairs:** William T. Abraham, MD. The Ohio State University, Columbus, OH
Douglas P. Zipes, MD, FHRS. Krannert Institute of Cardiology, Indianapolis, IN

**8:05 a.m.** This Bundle Pacing as an Alternative to CRT
**THURSDAY**

**CME/CE Hours:** 1.5  
**Core Curriculum**  
Room 102, Moscone South  
Atrial Flutter (including surgical ablation)  
Pediatrics and Adult Congenital Heart Disease  
LONGER IGNORE  
PEDIATRIC ELECTROPHYSIOLOGISTS CAN NO

8:25 a.m.  
**CME/CE Hours:** 1.5  
**Core Curriculum**  
Room 2002, Moscone West  
Management, Mechanisms, Diagnosis, and Ablation  
Heart Failure - Ventricular Tachycardia & Ventricular Fibrillation:  
Room 2002, Moscone West  
8 - 9:30 a.m.  
Core Curriculum  
F  
Supported by unrestricted educational grants provided by Amgen and Gilead Sciences, Inc.  
Session Description: The session will review treatment options for patients with end stage heart failure. The complex issues of arrhythmia management including pharmacologic and ablative strategies as well as device programming will be discussed.  
Chairs: Ratika Parkash, MD, MS, FHRSA. Queen Elizabeth II Health Sciences Centre - Dalhousie University, Halifax, NS, Canada  
Gregory K. Feld, MD, FHRSA. University of California - San Diego, La Jolla, CA  
Melissa R. Robinson, MD, FHRSA, CCDS. University of Washington, Seattle, WA  
Barbara J. Deal, MD, PhD, FHRSA. The University of Vermont, Burlington, VT  
Elizabeth A. Stephens, MD, MSc, FHRS, CCDS, CEPS. The Hospital for Sick Children, Toronto, ON, Canada  
Robert M. Gow, MBBS. Children's Hospital of Eastern Ontario, Ottawa, ON, Canada  
8:05 a.m.  
Do All End Stage Heart Failure Patients Need a Device? What Do the Guidelines Tell Us?  
Do All End Stage Heart Failure Patients Need a Device? What Do the Guidelines Tell Us?  
Melissa R. Robinson, MD, FHRSA, CCDS. University of Washington, Seattle, WA  
8:25 a.m.  
CIED Programming Considerations in the Patient with an LVAD  
CIED Programming Considerations in the Patient with an LVAD  
Eric C. Stecker, MD, MPH, FHRSA. Oregon Health and Science University, Portland, OR  
8:45 a.m.  
Managing Ventricular Arrhythmias in Patients with End Stage Heart Failure: Pharmacologic Considerations  
Managing Ventricular Arrhythmias in Patients with End Stage Heart Failure: Pharmacologic Considerations  
Ratika Parkash, MD, MS, FHRSA. Queen Elizabeth II Health Sciences Centre - Dalhousie University, Halifax, NS, Canada  
Gregory K. Feld, MD, FHRSA, CCDS. University of California - San Diego, La Jolla, CA  
9:05 a.m.  
Managing VT in End Stage Heart Failure: The Role of Catheter Ablation  
Managing VT in End Stage Heart Failure: The Role of Catheter Ablation  
Frederic Sacher, MD, PhD. Hôpital Haut-Lévêque, Bordeaux, France  

**Session 015. AF: THE ARRHYTHMIA THAT PEDIATRIC ELECTROPHYSIOLOGISTS CAN NO LONGER IGNORE**  
Pediatrics and Adult Congenital Heart Disease - Ablation of AF and Atrial Flutter (including surgical ablation)  
Room 102, Moscone South  
8 - 9:30 a.m.  
Core Curriculum  
ARS  
CME/CE Hours: 1.5  
Session Description: Atrial fibrillation, a common arrhythmia in the adult patient has become an increasingly recognized arrhythmia in pediatric and adult congenital EP. This session will highlight the conditions in which atrial fibrillation occur  
Chairs: Barbara J. Deal, MD, Ann and Robert H. Lurie Children's Hospital, Chicago, IL  
Robert M. Gow, MBBS. Children's Hospital of Eastern Ontario, Ottawa, ON, Canada  
8:05 a.m.  
Insights from an Adult Cardiologist on Managing Atrial Fibrillation  
Insights from an Adult Cardiologist on Managing Atrial Fibrillation  
Peter S. Spector, MD, University of Vermont College of Medicine, Burlington, VT  
8:25 a.m.  
Atrial Fibrillation, Genetics, and Channelopathies  
Atrial Fibrillation, Genetics, and Channelopathies  
Patrick T. Ellinor, MD, PhD. Massachusetts General Hospital, Boston, MA  
8:45 a.m.  
Atrial Fibrillation and Wolff-Parkinson-White Syndrome: Why?  
Atrial Fibrillation and Wolff-Parkinson-White Syndrome: Why?  
Elizabeth D. Sherwin, MD. Vancouver, BC, Canada  
9:05 a.m.  
Atrial Fibrillation in Patients with Congenital Heart Disease: Who is at Risk and How Should we Treat Them?  
Atrial Fibrillation in Patients with Congenital Heart Disease: Who is at Risk and How Should we Treat Them?  
Dominic J. Abrams, MD, MRCP. Children's Hospital Boston, Boston, MA  

**Session 016. INTERNATIONAL PEDIATRIC AND CONGENITAL ELECTROPHYSIOLOGY: WORKING TOGETHER ACROSS THE GLOBE**  
Pediatrics and Adult Congenital Heart Disease  
Room 104, Moscone South  
8 - 9:30 a.m.  
Core Curriculum  
CME/CE Hours: 1.5  
Session Description: This session will allow pediatric EPs from around the world to discuss the challenges and successes of pediatric EP practice and clinical research.  
Chairs:  
Nico A. Blom, MD, PhD. Leiden University Medical Center, Leiden, Netherlands  
Elizabeth A. Stephenson, MD, MSc, FHRS, CCDS, CEPS. The Hospital for Sick Children, Toronto, ON, Canada  
8:05 a.m.  
Barriers in International Clinical Research and Strategies to Overcome Them  
Barriers in International Clinical Research and Strategies to Overcome Them  
Jan Janousek, MD, PhD. Children's Heart Centre, Prague, Czech Republic  
8:25 a.m.  
Innovation in International Practice: Early Experiences with Leadless Pacing  
Innovation in International Practice: Early Experiences with Leadless Pacing  
Gabriele Hessling, MD. Deutsches Herzzentrum München, Munich, Germany  
8:45 a.m.  
Practicing Pediatric EP in a Resource-Scare Environment  
Practicing Pediatric EP in a Resource-Scare Environment  
Laszlo Kornyei. Hungary  
9:05 a.m.  
Building Bridges: The Next Steps to Improve International Collaboration  
Building Bridges: The Next Steps to Improve International Collaboration  
Mitchell Cohen, MD, CCDS. Phoenix Children's Hospital, Phoenix, AZ  

**Session 017. THE INHERITED ARRHYTHMIA CLINIC: FAMILY CENTERED DIAGNOSIS AND MANAGEMENT**  
Special Session - Sudden Death Risk Assessment and Treatment  

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Session Description: The session will review inherited arrhythmias and how they are increasingly managed in multidisciplinary clinics, and are a great example of family centered care. Ideal management of families involved adult and pediatric physic

Chairs: Susan P. Etheridge, MD, FHRS, CEPS, University of Utah, Salt Lake City, UT
        Bryan C. Cannon, MD, CCDS, CEPS. Mayo Clinic, Rochester, MN

8 a.m. Age-Based Management Differences in Long QT Syndrome and Other Inherited Arrhythmias
        Jennifer N. A. Silva, MD. Washington University, St. Louis, MO

8:15 a.m. Genotype Positive: Phenotype Negative Patients
        Scott R. Ceresnak, MD. Lucile Packard Children’s Hospital, Palo Alto, CA

8:30 a.m. Cascade Testing: Who do I Test, and When?
        Katherine G. Spoonamore, MS. Indiana University School of Medicine, Indianapolis, IN

Session JS03. CHALLENGES IN MANAGEMENT OF HEART FAILURE PATIENTS

Special Session
Room 308, Moscone South 8 - 9:30 a.m.
Joint Session
CME/CE Hours: 1.5
Joint Session of HRS and WG on Heart Rhythm of Polish Cardiac Society

Session Description: Heart failure patients are one the most challenging group for management. Favor clinical outcome depends on treatment of clinical factors influencing proper CRT device behavior. The session will focus on benefits of multi-LV le

Chairs: Hugh G. Calkins, MD, FHRS, CCDS. Johns Hopkins University, Baltimore, MD
        Przemyslaw Piotr. Milkowski, MD, PhD. University of Medical Sciences; Poznan, Poland

8:05 a.m. Multisite LV Pacing
        Radoslaw Lenarczyk, MD. SCCS Zabrze, Zabrze, Poland

8:25 a.m. Substrate Catheter Ablation in Patients with CRT
        Mina K. Chung, MD, FHRS. Cleveland Clinic, Cleveland, OH 8:30 a.m.

8:45 a.m. Electrical Storm: A Polish Registry
        Lukasz J. Szumowski, MD, PhD. Institute of Cardiology, Warsaw, Poland

9:05 a.m. Infective Complications of CRT in Responder and Superresponder - Periprocedural Management
        Bruce L. Wilkoff, MD, FHRS, CCDS. Cleveland Clinic, Cleveland, OH

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Session SP09. CES: SODIUM CHANNELS - STRUCTURE, FUNCTION, AND DISEASE MECHANISMS: SESSION I STRUCTURE

Special Session
Room 307, Moscone South
8 - 9:30 a.m.
CME/CE Hours: 1.5

Session Description: This session reviews sodium channel and its localizes preferentially (though not exclusively) at the intercalated disc. Recent studies show that this localization has important functional consequences, to be reviewed in this

Chairs:
- Glenn I. Fishman, MD, FHRS. New York University, New York, NY
- Gordon F. Tomaselli, MD, FHRS. Johns Hopkins University, Baltimore, MD

8 a.m. Introduction of CES and Gordon K. Moe Lecturer
Glenn I. Fishman, MD, FHRS. New York University, New York, NY

8:10 a.m. Gordon K. Moe Lecture: The Complexity of Nav1.5
Mario Delmar, MD, PhD, FHRS. New York University, New York City, NY

8:50 a.m. Targeted Delivery: How Does the Sodium Channel get to the Intercalated Disc?
Robin M. Shaw, MD, PhD. Cedars-Sinai Medical Center, Los Angeles, CA

9:10 a.m. Na Channel Proteins and Interactions Proteins
Hugues Abrie, MD, PhD. Universitat Bern, Bern, Switzerland

Session SP35. CONTRIBUTION OF MARK JOSEPHSON, MD TO CLINICAL ELECTROPHYSIOLOGY

Special Session
Room 3002, Moscone South
8 - 9:30 a.m.
CME/CE Hours: 1.5

Session Description: This session is designed to honor the contribution of Mark Josephson, MD to the clinical cardiac electrophysiology. His fellows and pupils will each be presenting subjects that are Mark's favorites

Chairs:
- Mohammad Shenasa, MD, PhD. O’Connor Hospital - Heart and Rhythm Medical Group, San Jose, CA
- John M. Miller, MD, FHRS. Indiana University School of Medicine, Indianapolis, IN

8 a.m. Cardiac Mapping in Ventricular Tachycardia
Mohammad Shenasa, MD, PhD. O’Connor Hospital - Heart and Rhythm Medical Group, San Jose, CA

8:15 a.m. Surgery for Ventricular Tachycardia in CAD
John M. Miller, MD, FHRS. Indiana University School of Medicine, Indianapolis, IN

8:30 a.m. Sustained Monomorphic Ventricular Tachycardia in Coronary Artery Disease
David J. Callans, MD, FHRS, CCDS. University of Pennsylvania, Philadelphia, PA

8:45 a.m. Resetting and Entrainment in Ventricular Tachycardia
Jesus Almendral, MD, PhD. Hospital Montepríncipe, Madrid, Spain
THURSDAY

9 a.m. ECG as a Tool for Cardiac Mapping
Francis E. Marchlinski, MD, FHRS. University of Pennsylvania, Philadelphia, PA

9:15 a.m. Landmark Trials Designed by Mark Josephson and Colleagues
John M. Miller, MD, FHRS. Indiana University School of Medicine, Indianapolis, IN

Session SP39. THE MEDABLE SOLUTION: HIPAA COMPLIANT MOBILE APPS & ANALYTICS FOR HEALTHCARE
Special Session
Room 134, Moscone North 8 - 9:30 a.m.
Special Session
Session Description: A digital revolution is happening in healthcare. Remote patient monitoring and behavioral modification platforms hold the promise of improving chronic disease management and reducing unnecessary costs. In the vast field of conn
Chair: Leslie A. Saxon, MD. University of Southern California, Los Angeles, CA

8 a.m. Presenter
Michelle Longmire, MD. Medable, Palo Alto, CA

Session SP40. FINDING THE RIGHT JOB AND EARLY CAREER CHALLENGES
Special Session
Room 2011, Moscone West 8 - 9:30 a.m.
Special Session  F  CME/CE Hours: 1.5
Session Description: This session will outline approaches to the job hunt for the first EP job, whether it be in academics, private practice, or non-traditional routes. Early career faculty who have recently found positions, as well as those experi
Chairs: Babak Nazer, MD. University of California San Francisco, San Francisco, CA
Anand Shah, MD. Columbia University Medical Center, New York, NY

8 a.m. How to be Successful in the EP Job Search Part 1: Private Practice/Institutional Practice
Christopher Woods, MD, PhD. UCSF, San Francisco, CA

8:15 a.m. How to be Successful in the EP Job Search Part 2: Academics
Thomas A. Dewland, MD. Oregon Health & Science University, Portland, OR

8:30 a.m. Non-Traditional Careers in EP: Industry Innovation and Beyond
Uday N. Kumar, MD. Element Science, Inc., San Francisco, CA

8:45 a.m. How to Continue Doing Research in Private Practice
Eric N. Prystowsky, MD, FHRS. St. Vincent Medical Group, Indianapolis, IN

9 a.m. Panel Discussion: What Do We Look for in a Candidate - Academics
Joshua M. Cooper, MD, FHRS. Temple University Hospital, Philadelphia, PA

9 a.m. Panel Discussion: What Do We Look for in a Candidate - Private Practice
Eric N. Prystowsky, MD, FHRS. St. Vincent Medical Group, Indianapolis, IN

9 a.m. Panel Discussion: What Do We Look for in a Candidate - Large Healthcare System
Rob A. Patrawala, MD, FHRS. Silicon Valley Cardiology, Palo Alto, CA

Session SP45. MOC UPDATE: WHAT'S NEW?
Special Session
Room 121, Moscone North 8 - 9:30 a.m.
Special Session
Session Description: The session panelists will review updates to the maintenance of certification process and seek input on future initiatives.
Chair: Richard I. Fogel, MD, FHRS, CCDS. St. Vincent Medical Group, Indianapolis, IN

8 a.m. Pathway to ABIM Certification/Recertification
John Mandrola, MD. Baptist Medical Associates, Louisville, KY

8:10 a.m. Overview of Changes Introduced in the Past Year
Andrea M. Russo, MD, FHRS. Cooper University Hospital, Camden, NJ

8:25 a.m. 10-year Exam: Yes or no? What Are the Options?
Richard I. Fogel, MD, FHRS, CCDS. St. Vincent Medical Group, Indianapolis, IN

Session 018. HOW BEST TO DO ECG MONITORING FOLLOWING CATHETER ABLATION OF AF: ILR OR SMART PHONE
Cardiovascular Implantable Electronic Devices - Implantable Monitors, Sensors, and Novel CIED Devices
Room 3018, Moscone West 9 - 9:45 a.m.
Special Session  F PM  CME/CE Hours: 0.75
Supported by an unrestricted educational grant provided by Boston Scientific.
Session Description: The aim of this debate is to discuss various options for ECG monitoring post catheter ablation of atrial fibrillation.
Chair: Carsten W. Israel, MD. Evangelical Hospital Bielefeld, Bielefeld, Germany

9:05 a.m. Patients Can Undergo ECG Monitoring Using a Smartphone Following AF Ablation
Leslie A. Saxon, MD, FHRS. University of Southern California, Los Angeles, CA

9:20 a.m. Patients Should Receive an Implantable Cardiac Monitor Following AF Ablation
Atul Verma, MD, FHRS. Southlake Regional Health Centre, Newmarket, ON, Canada

9:35 a.m. Rebuttal
Leslie A. Saxon, MD, FHRS. University of Southern California, Los Angeles, CA

9:40 a.m. Rebuttal
Atul Verma, MD, FHRS. Southlake Regional Health Centre, Newmarket, ON, Canada
**Session PO02. POSTER SESSION II**

**Special Session**

EPicenter, Hall D  
9 - 12 p.m.

**Poster**

**F**

**Session Description:** Visit the EPicenter to experience the latest science and innovation.

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**Session MP01. STROKE PREVENTION IN AF: REAL WORLD SAFETY AND EFFICACY DATA FOR COUMADIN AND NOACS**

**Clinical Electrophysiology**

EPicenter Theater 1, Hall D  
9:30 - 10:30 a.m.

**Moderated Poster**

**F**

**Session Description:** Come hear the latest data presented on the safety and efficacy of oral anticoagulants for AF stroke prevention.

**Chair:** S. Serge Barold, MD, FHRS, CCDS. Florida Heart Rhythm Institute, Tampa, FL

9:30 a.m.  **MP01-01:** Withdrawn

Peter A. Noseworthy, MD, Xiaoxi Yao, PhD, Nilay D. Shah, PhD and Bernard J. Gersh, MBChB. Mayo Clinic, Rochester, MN

9:40 a.m.  **MP01-02:** New direct oral anticoagulants may benefit from therapeutic drug monitoring

Milou D. DRICI, MD, PhD, Guillaume Bardy, PharmD, PhD, Marion Warembourg, No Degree, Sarah-Line Lancrenot, No Degree, Bernadette Baldin, MD and Thibaud Lavrut, PharmD. Nice University Hospital Center, Nice, France

9:50 a.m.  **MP01-03:** Lower Time in Therapeutic Range on Warfarin Correlates with Incident Dementia in Patients with Atrial Fibrillation

Tiffany Y. Hu, BS, Malini Madhavan, MBBS, Bernard J. Gersh, MBChB, Veronique L. Roger, MD, MPH, Jill Killian, BS, Susan A. Weston, MS, Samuel J. Asirvatham, MD, FHRS and Alanna M. Chamberlain, Ph.D (c), MPH. Mayo Clinic, Rochester, MN, Mayo Clinic, Cardiovascular Div, Rochester, MN

10 a.m.  **MP01-04:** Atrial Fibrillation Patients Treated with Long-term Warfarin Anticoagulation Have Higher Rates of All Dementia Types Compared to Patients Receiving Warfarin Long-term for Other Indications

Victoria Jacobs, NP, T. Jared Bunch, MD, Heidi T. May, PhD, Tami L. Bair, RN, Brian G. Crandall, MD, Michael J. Cutler, DO, PhD, John D. Day, MD, FHRS, Charles Mallender, MD, Jeffrey S. Osborn, MD, Scott M. Stevens, MD, J. Peter Weiss, MD, MSC and Scott C. Wolter, MD. Intermountain Medical Center, Murray, UT, Intermountain Medical Center Heart Institute, Murray, UT, Intermountain Heart Rhythm Specialists, Salt Lake City, UT

10:10 a.m.  **MP01-05:** A Meta-Analysis of the Efficacy, Effectiveness, and Safety of Novel Oral Anticoagulants Compared with Vitamin K Antagonists for Stroke Prevention in Atrial Fibrillation

Linda Liu, BSc, Benjamin Weber, MD, Adam Oesterle, MD, Hemal M. Nayak, MD and Gaurav A. Upadhyay, MD. University of Chicago, Chicago, IL

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**Session PU01. PIONEERS IN ABLATION**

**Special Session**

EPicenter Theater 2, Hall D  
9:30 - 10:30 a.m.

**Pioneers Unplugged**

**Session Description:** This session will present a history on the development of atrial fibrillation as a clinical tool.

**Chair:** Samuel Levy, MD. Aix-Marseille Université, Marseille, France

9:30 a.m.  **Panelists**

James L. Cox, MD. Washington University, St. Louis, MO

Warren M. Jackman, MD, FHRS. University of Oklahoma, Oklahoma City, OK

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**Session EP05. CAREER PATHWAY IN EP**

**Special Session**

EPicenter Theater 2, Hall D  
10:45 - 11:45 a.m.

**EPicenter**

10:45 a.m.  **Presenter**

Steven C. Hao, MD, FHRS. Sutter Pacific Medical Foundation, San Francisco, CA

Kristen K. Patton, MD. University of Washington, Seattle, WA

Richard L. Page, MD, FHRS. University of Wisconsin, Madison, WI

Amit J. Shanker, MD, FHRS. Bassett Healthcare of the New York Presbyterian Health System, Cooperstown, NY

Lynda E. Rosenfeld, MD, FHRS. Yale University School of Medicine, New Haven, CT

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**Session 020. EP JEOPARDY**

**Allied Professionals**

Room 134, Moscone North  
10:30 - 12 p.m.

**Core Curriculum**

ARS PM

CME/CE Hours: 1.5

**Session Description:** This session will be using a popular game style format with questions about CIEDs, patient management, electrophysiology procedures including electrogram analysis provides a unique and fun review of a broad range of topics.

**Chairs:** Young M. Park, RN. Good Samaritan Hospital, Los Angeles, CA

Susan L. Song, BSN, FHRS, CCDS. University of Southern California, Los Angeles, CA

10:30 a.m.  **CIEDS: Pacers, Defibrillators, CRT, ILR, Others**

Eric M. Grubman, MD, FHRS, CCDS. University of Southern California, Los Angeles, CA

11 a.m.  **EP Lab Focus: Interpretation of Intracardiac Electrograms**
Session 021. HEART RHYTHM CARE IN THE PEDIATRIC POPULATION

Allied Professionals
Room 132, Moscone North 10:30 - 12 p.m.
CME/CE Hours: 1.5
ASRT/ARRT: DCD0056094

Session Description: This session will review common arrhythmias in the pediatric population and discuss treatment options. Psychosocial aspects of management will be reviewed as well as CIED choice and programming options.

Chairs: Debra G. Hanisch, RN, MSN, CPNP, FHRS, CCDS. Lucile Packard Children's Hospital, CA
Vicki L. Zeigler, RN, PhD, FHRS, CCDS, CEPS. Texas Woman's University, Denton, TX

10:30 a.m. Common Arrhythmias in the Pediatric Population - They are not Just Small Adults!
Philip Chang, MD. University of Southern California, Los Angeles, CA

11 a.m. Psychosocial Aspects of Arrhythmia Management in Pediatric and Adolescent Patients
Vicki Freedengberg, PhD, RN. Children's National Medical Center, Washington, DC

11:30 a.m. Device Choice and Device Programming Considerations in Pediatric Patients
Christine C. Chiu-Man, MS, FHRS, CCDS, CEPS. The Hospital for Sick Children, Toronto, ON, Canada

Session 022. ARRHYTHMIAS IN MYOCARDITIS

Basic Translational Science - Ventricular Tachycardia & Ventricular Fibrillation: Management, Mechanisms, Diagnosis, and Ablation
Room 304, Moscone South 10:30 - 12 p.m.
Translational Electrophysiology
CME/CE Hours: 1.5

Session Description: This session will review mechanisms and clinical aspects of arrhythmias in patients with myocarditis.

Translator:
Peter J. Zimetbaum, MD, FHRS. Beth Israel Deaconess Medical Center, Boston, MA

10:30 a.m. Mechanistic Links Between Myocardial/Pericardial Inflammation and Arrhythmias
Albert L. Waldo, MD, CCDS. Case Western Reserve University, Cleveland, OH

10:55 a.m. Role of Myocarditis in Arrhythmogenic Cardiomyopathy
Gaetano Thiene, MD. University of Padua, Padua, Italy

11:20 a.m. Arrhythmias in Cardiac Scoliosis
Joseph L. Schuller, MD, FHRS. University of Colorado, Aurora, CO

Session 023. IS THERE A FUTURE FOR TRANSVENOUS LEADS?

Cardiovascular Implanted Electronic Devices - Device and Lead Management Considerations, including Lead Extraction
Room 2003, Moscone West 10:30 - 12 p.m.
Core Curriculum F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Boston Scientific.

Session Description: This session will discuss if there is a future for transvenous leads in this era of headless pacing

Chairs: Antonio Curnis, MD. University of Brescia Medical School, Brescia, Italy
Steven L. Higgins, MD, FHRS. Scripps Memorial Hospital, La Jolla, CA

10:35 a.m. What are the Optimal Requirements for Different Lead Types?
Victor Pretorius, MBCHB. University of California - San Diego, San Diego, CA

10:55 a.m. Lead Evolution - Learning from Famous Failures
Kenneth A. Ellenbogen, MD, FHRS. Medical College of Virginia, Richmond, VA

11:15 a.m. What are the Complication Rates of Present Transvenous Lead Models?
Jeanne E. Poole, MD, FHRS, CCDS. University of Washington, Seattle, WA

11:35 a.m. Will Transvenous Leads be Outdated Soon?
Philippe Ritter, MD. Hôpital Haut-Lévêque, Pessac, France

Session 024. THE EPIDEMIOLOGY AND MANAGEMENT OF CIED INFECTION

Cardiovascular Implanted Electronic Devices - Device and Lead Management Considerations, including Lead Extraction
Room 2002, Moscone West 10:30 - 12 p.m.
Core Curriculum F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Boston Scientific.

Session Description: This session will review the epidemiology and management of CIED infection

Chairs: Charles Kennergren, MD, PhD, FHRS. Sahlgrenska University Hospital, Gothenburg, Sweden
Michael Glikson, MD. Sheba Medical Center, Ramat Gan, Israel

10:35 a.m. Present Incidence and Prevalence of CIED Infection
Jean-Claude Deharo, MD. Hôpital La Timone, Marseille, France

10:55 a.m. Present Standard of Care Including Antibiotic Treatment
Jamil Bashir, MD. St. Paul's Hospital, Vancouver, BC, Canada

11:15 a.m. Timing of Extraction, Pre-implantation and Treatment in ICD and Pacemaker-dependent Patients
Peter H. Belott, MD, FHRS. Sharp Grossmont Hospital, La Mesa, CA

11:35 a.m. How can CIED Infection Incidents be Reduced?
Khaldoun G. Tarakji, MD, MPHd, FHRS. Cleveland Clinic, Cleveland, OH
**Session 025. COMMON CLINICAL SCENARIOS FACED IN THE ERA OF NOVEL IMPLANTABLE DEVICES**

Cardiovascular Implantable Electronic Devices - Implantable Monitors, Sensors, and Novel CIED Devices
Room 1010, Moscone West

**Rapid Fire Cases**

10:30 - 12 p.m.

**CME/CE Hours:** 1.5

**Supported by an unrestricted educational grant provided by Boston Scientific.**

**Session Description:** The aim of this session is to highlight and discuss some of the common clinical scenarios faced in clinical practice in the era of novel implantable devices.

**Chair:** Charles J. Love, MD, FHRS, CCDS. New York University, New York, NY

10:30 a.m. My Patient with Cryptogenic Stroke and ILR had a 10-Minute Episode of Atrial Fibrillation - Is Anticoagulation Needed? Johannes Brachmann, MD, PhD. Klinikum Coburg, Coburg, Germany

10:45 a.m. My AF Patient with a CHA2DS2-VASc Score of 4 Just Had a Small Intracerebral Bleed - Is Percutaneous Left Atrial Appendage Closure an Option? Vijay Swarup, MD, FHRS. Arizona Heart Rhythm Center, Phoenix, AZ

11 a.m. My Patient with Hypertrophic Cardiomyopathy Needs an ICD but Has Abnormal T Waves on ECG - Is a Subcutaneous ICD an Option? Reindou E. Knops, MD, CCDS. Academic Medical Center, Amsterdam, Netherlands

11:15 a.m. My Patient with Paroxysmal Atrial Fibrillation and LBBB Needs a Pacemaker for Intermittent Sinus Pauses - Is a Leadless Pacemaker an Option? Srinivas Dukkipati, MD. Mount Sinai School of Medicine, New York, NY

11:30 a.m. My Patient's Pulmonary Artery Sensor Is Reading an Elevated Pressure but the Patient Feels Well - Treat the Number or the Patient? J. Thomas Heywood, MD. Scripps Clinic, La Jolla, CA

11:45 a.m. My Patient with Recurrent Syncope and ILR has an Asymptomatic 6-Second Pace Pause - Is a Pacemaker Indicated? Mohamed H. Hamdan, MD, MBA, FHRS. University of Wisconsin, Madison, WI

10:35 a.m. **Panelists**

Andrea M. Russo, MD, FHRS. Cooper University Hospital, Camden, NJ

Bharat K. Kantharia, MD, FHRS. West Houston Medical Center, Houston, TX

Sei Iwai, MD, FHRS. Westchester Medical Center, Valhalla, NY

Session JS04. PRIMARY PREVENTION FOR SCA AND THE IMPACT OF 1.5 PREVENTION IN ASIAN COUNTRIES: EVIDENCE AND FUTURE DIRECTIONS

Cardiovascular Implantable Electronic Devices
Room 2011, Moscone West

10:30 - 12 p.m.

**Joint Session**

**CME/CE Hours:** 1.5

**Chinese Society of Pacing and Electrophysiology/Chinese Society of Arrhythmias/Asia-pacific Society of Heart Rhythm**

**Session Description:** This session will explain the impact of the 1.5 prevention of SCA, the criteria between the primary and secondary prevention, will be discussed with the latest implant data, and the future directions of the adoption of ICD for

**Chairs:** Richard Page, MD, FHRS. University of Wisconsin, Wisconsin, WI

Win K. Shen, MD, FHRS. Mayo Clinic, Arizona, AZ

10:30 a.m. The Impact of 1.5 Prevention on the Adoption of Primary Prevention in China: Evidence and Future Directions

Shu Zhang, MD. Beijing Fuwai Hospital, Beijing, China

10:50 a.m. Current Status and Future Trend of Primary Prevention in Korea

Young Hoon Kim, MD, PhD. Korea University Medical Center, Seoul, Korea, Republic of Korea

11:10 a.m. The Impact of 1.5 Prevention on the Adoption of Primary Prevention in Taiwan

Yen B. Liu. National University Hospital Taiwan, Taibei, Taiwan

11:30 a.m. The Impact of 1.5 Prevention on the Adoption of Primary Prevention in India: Evidence and Future Directions

Balbir Singh, Dr, MD. Medanta, New Delhi, India

Balbir Singh, Dr, MD. Medanta, New Delhi, India

Young Hoon Kim, MD, PhD. Korea University Medical Center, Seoul, Korea, Republic of Korea

11:45 a.m. Current Status and Future Trend of Primary Prevention in Malaysia

Razali Omar, MD. National Heart Institute, Kuala Lumpur, DC

10:30 a.m. Panelists

Shu Zhang, MD. Beijing Fuwai Hospital, Beijing, China

Balbir Singh, Dr, MD. Medanta, New Delhi, India

Young Hoon Kim, MD, PhD. Korea University Medical Center, Seoul, Korea, Republic of Korea

Razali Omar, MD. National Heart Institute, Kuala Lumpur, DC

Session 026. ABLATION IN DIFFICULT AVNRT CASES

Catheter Ablation - SVT/AVNRT/WPW/AT Management, Mechanisms, Diagnosis, and Ablation
Room 3022, Moscone West

10:30 - 12 p.m.

**Core Curriculum**

ARS F MOC-ABIM

**CME/CE Hours:** 1.5

**Supported by an unrestricted educational grant provided by Biosense Webster, Inc.**

**Session Description:** This highly practical session addresses obstacles to the accurate diagnosis and safe elimination of the arrhythmia substrate in AVNRT. Particular attention is paid to troubleshooting the redo procedure safely and effectively.

**Chairs:**

Rajesh N. Subbiah, MD, PhD. St Vincent's Hospital, Sydney, Australia

John P. DiMarco, MD, PhD, FHRS. University of Virginia, Charlottesville, VA

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Thursday

10:35 a.m.  Defining the AVNRT Circuit: Is it Really Necessary?
            Warren M. Jackman, MD, FHRSA. University of
            Oklahoma, Oklahoma City, OK

10:55 a.m.  Differential Diagnosis of AVNRT: How to Avoid
            Mistakes and Misconceptions
            Shoel K. Stephen Huang, MD, FHRSA, CCDS. Tzu Chi
            University School of Medicine, Hualien, Taiwan

11:15 a.m.  Transient AV Block During the Index Procedure: How to
            Approach the Redo Procedure Following Arrhythmia
            Recurrence
            Eugene Crystal, MD, Sunnybrook Health Sciences
            Centre, Toronto, ON, Canada

11:35 a.m.  Left Heart Access for Slow Pathway Ablation: When is it
            Necessary and How is it Done?
            Demosthenes G. Katritsis, MD, PhD. Athens Euroclinic,
            Athens, Greece

Session 027. ABLATION OF LONGSTANDING
PERSISTENT AF
Catheter Ablation - Ablation of AF and Atrial Flutter (including surgical ablation)
Room 3002, Moscone West 10:30 - 12 p.m.
Core Curriculum F MOC-ABIM
CME/CE Hours: 1.5
Supported by unrestricted educational grants provided by AtriCure, Inc. and Biosense Webster, Inc.

Session Description: This session will allow experts in this field to
describe patient selection and various techniques of ablation
longstanding persistent AF

Chairs: Richard C. Wu, MD, FHRSA. University of Texas
Southwestern Medical Center, Dallas, TX
Xingpeng Liu, MD. Beijing Chao-Yang Hospital, Capital
Medical University, Beijing, China

10:35 a.m.  Selecting Appropriate Patients for Ablation
            Petr Neuzil, MD, PhD. Na Homolce Hospital, Prague,
            Czech Republic

10:55 a.m.  Comparison of Different Ablation Techniques
            Thomas Denke, MD, PhD. Heartcenter Bad Neustadt,
            Bad Neustadt, Germany

11:15 a.m.  Does Surgery or Hybrid Ablation Work Better than
            Catheter Ablation?
            Mark La Meir, MD. PhD. UZ Brussel, Belgium

11:35 a.m.  Can Imaging Studies Predict Ablation Outcome?
            Henry R. Halperin, MD. Johns Hopkins University,
            Baltimore, MD

Session 028. PATIENT-SPECIFIC STRATEGIES FOR
STROKE PREVENTION IN AF: DRUGS, DEVICES,
AND SURGERY
Clinical Electrophysiology - Implantable Monitors, Sensors, and Novel
CIED Devices
Room 3014, Moscone West 10:30 - 12 p.m.
Case Based Tutorial ARS F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Biosense
Webster, Inc.

Session Description: Come learn how to choose the best
management approach to prevent stroke in AF patients based on
stroke risk and other comorbidities

Chair: Miguel Valderrabano, MD. Houston Methodist Hospital,
Houston, TX

10:35 a.m.  Patient(s) with Recent Left Main Drug-Eluting Stent,
            CHA2DS2-VASc 3, and Life-Threatening GI Bleeding on
            Triple Therapy(Coumadin, ASA, Clopidogrel)
            Gerald V. Naccarelli, MD, FHRSA. Pennsylvania State
            Hershey Heart and Vascular Institute, Hershey, PA

10:55 a.m.  Patient(s) with CHA2DS2-VASc 5 and Prior
            Hemorrhagic Stroke on Coumadin
            Eric J. Rashba, MD, FHRSA. Stony Brook Medicine,
            Stony Brook, NY

11:15 a.m.  Patient(s) with Asymptomatic Persistent AF, CHA2DS2-
            VASc 4, Severe MR, and No Prior Bleeding
            Complications on a NOAC
            A. Marc Gillinov, MD. Cleveland Clinic Foundation,
            Cleveland, OH

11:35 a.m.  Patient(s) with PAF, Remote PCI, CHA2DS2-VASc 1,
            and Severe GI Bleeding on Dual Anti-Platelet Therapy
            Shephal K. Doshi, MD. Pacific Heart Institute, Santa
            Monica, CA

Session 029. LEFT ATRIAL APPENDAGE: ANATOMY,
ELECTROPHYSIOLOGY, AND ABLATION
Clinical Electrophysiology - Ablation of AF and Atrial Flutter (including surgical ablation)
Room 3014, Moscone West 10:30 - 12 p.m.
Core Curriculum F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

Session Description: This session critically reviews the anatomy, the
implantation techniques and outcome data

Chairs: Mark H. Schoenfeld, MD, FHRSA, CCDS. Yale
University School of Medicine, New Haven, CT
Luigi Di Biase, MD, PhD, FHRSA, FACC. Albert Einstein
College of Medicine at Montefiore Hospital, New York,
NY

10:35 a.m.  Review of the LAA Anatomy with its’ Relevance to
            Occlusion
            Karen McCarthy, MD, PhD. Royal Brompton Hospital,
            London, United Kingdom

10:55 a.m.  Which LAA Occlusion Device for Whom? A Critical
            Review of the Available Options
            Dhanujaya R. Lakkireddy, MD, FHRSA. University of
            Kansas Medical Center, Kansas City, KS

11:15 a.m.  Concomitant Ablation of AF: Results Using Various
            Energy Sources
            Kyoung Ryul J. Chun, MD. Cardioangialogisches
            Centrum Bethanien, Frankfurt, Germany

11:35 a.m.  Are LAA Occlusion Devices More Cost Effective than
            NOAC’s or Warfarin?
            Sheldon M. Singh, MD. Sunnybrook Hospital, Toronto,
            ON, Canada

Session 030. THE EP’S WORST NIGHTMARE:
SUDDEN DEATH FROM “BENIGN” ARRHYTHMIAS

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Session JS05. CHALLENGES IN THE MANAGEMENT OF CHAGAS' HEART DISEASE RELATED ARRHYTHMIAS
Clinical Electrophysiology
Room 130, Moscone North
10:30 - 12 p.m.
CME/CE Hours: 1.5

Session Description: This session presents challenging clinical scenarios of arrhythmias related to Chagas' heart disease. The diagnosis and treatment of these complex arrhythmias with drugs, catheter ablation and implantable devices will be discussed.

Chairs: Luis E. Aguinaire Arrasque, MD, Centro Privado de Cardiologia, Tucuman, Argentina
Fernin C. Garcia, MD, Hospital of the University of Pennsylvania, Philadelphia, PA

10:35 a.m. Unexplained Syncope: Why is the Patient Fainting?
Carlos A. Morillo, MD, FHIRS. McMaster University, Hamilton, ON, Canada

10:55 a.m. Recurrent Ventricular Arrhythmias: Is Catheter Ablation Always Required?
Guilherme Fenelon, MD, Paulista School of Medicine, Sao Paulo, Brazil

11:15 a.m. Severe Heart Failure with RBBB: Which Patients Should be Referred for CRT?
Adrian M. Baranchuk, MD, Kingston General Hospital, Kingston, ON, Canada

11:35 a.m. Sudden Death Prevention: ICD, Drugs or Both?
Martino Martinelli Filho, MD, PhD. InCor - HC & FMUSP, Sao Paulo, Brazil

Session JS06. WHAT'S NEW IN J WAVE SYNDROMES IN 2016?
Clinical Electrophysiology
Room 303, Moscone South
10:30 - 12 p.m.
CME/CE Hours: 1.5

Session Description: The session will look at the mechanisms of J waves and the impact on risk of J waves in different clinical conditions.

Chairs: Charles Antzelevitch, PhD, FHRs. Masonic Medical Research Laboratory, Utica, NY
Yoshinori Kobayashi, MD, CEPS. Tokai University Hachijo - Hospital, Tokyo, Japan

10:35 a.m. Temporal and Morphologic Variation of J-Waves in Patients with Early Repolarization Syndrome
Gi-Byoung Nam. Asan Medical Center, Dept Of Internal Medicine and Cardiology, Seoul

10:55 a.m. Cellular and Ionic Basis of Early Repolarization Syndrome
Gan-Xin Yan, MD, PhD. Main Line Arrhythmia and Cardiology Consultants at Lankenau Medical Center, Wynnewood, PA

11:15 a.m. Early Repolarization in Patients with Arrhythmogenic Right Ventricular Cardiomyopathy
Yi-Jen Chen. Wan Fang Hospital, Taipei, Taiwan

11:35 a.m. The Prognostic Value of Early Repolarization and ST-Segment Morphology in Brugada Syndrome
Masahiko Takagi. Osaka City University Medical School of Medicine, Osaka, Japan

Session 031. HYPERTROPHIC CARDIOMYOPATHY: MANAGING ATRIAL AND VENTRICULAR ARRHYTHMIAS
Heart Failure - Sudden Death Risk Assessment and Treatment
Room 2020, Moscone West
10:30 - 12 p.m.
CME/CE Hours: 1.5

Session Description: Patients with hypertrophic cardiomyopathy often present with challenging arrhythmia issues. This session reviews strategies for management.

Chair: Judith A. Mackall, MD, FHRS. Case Western Reserve University, Cleveland, OH

10:35 a.m. Risk Stratification for Sudden Cardiac Death: The Prognostic Value of MRI in Patients with Hypertrophic Cardiomyopathy
Martin Maron, MD. Tufts Medical Center, Boston, MA

10:55 a.m. The use of the Subcutaneous ICD in Patients with Hypertrophic Cardiomyopathy
Louise R. A. Ode Nordkamp, MD, MSc. Academic Medical Centre, Amsterdam, Netherlands

11:15 a.m. Prediction of Thrombo-Emboilic Risk in Patients with Atrial Fibrillation and Hypertrophic Cardiomyopathy
Perry Elliott, MD. The Heart Hospital, London, United Kingdom
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<th>Time</th>
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| 11:30 a.m. | The Role of Catheter Ablation for the Treatment of Atrial Fibrillation in Patients with Hypertrophic Cardiomyopathy  
Douglas Packer, MD, FHR. Mayo Clinic, Rochester, MN |
| 11:35 a.m. | **Session 032. HOW TO DETERMINE AND REACH THE OPTIMAL LV LEAD LOCATION**  
**Heart Failure - Resynchronization Therapy: Science, Techniques, and Outcomes**  
Room 2006, Moscone West  
CME/CE Hours: 1.5  
How-To  
F MOC-ABIM  
Session Description: This session presents a “hands on” approach to placing the LV in an optimal location. Optimal use of echo to determine best location is discussed and use of navigation systems to reach a selected area is explored. How to use i |
| 10:35 a.m. | How To Place the LV Lead in RBBB Patients  
Marye J. Gieva, MD, FHR. Washington University, St. Louis, MO |
| 10:55 a.m. | How to use QLV to Determine Best LV Lead Location  
Amir A. Schricker, MD. UC San Diego Medical Center, San Diego, CA |
| 11:15 a.m. | How to Use Echo to Determine Best LV Lead Location  
Evan C. Adelstein, MD, FHR. University of Pittsburgh Medical Center, Pittsburgh, PA |
| 11:35 a.m. | How To Use Navigation Systems To Deliver the LV Lead  
Sergio Richter, MD. Heart Center at University of Leipzig, Leipzig, Germany |
| 10:30 a.m. | **Session 033. INHERITED ARRHYTHMIAS: BENCH TO BEDSIDE ADVANCES**  
Pediatrics and Adult Congenital Heart Disease - Sudden Death Risk Assessment and Treatment  
Room 102, Moscone South  
CME/CE Hours: 1.5  
Session Description: This session highlights the new and innovative basic science and translational research in channelopathic conditions  
Chairs:  
Craig T. January, MD, PhD. University of Wisconsin, Madison, WI  
Frank J. Zimmerman, MD. The Heart Institute for Children, Oak Lawn, IL |
| 10:30 a.m. | Desmosomes, Sodium Channels and Gap Junctions  
Jeffrey E. Saffitz, MD, PhD. Beth Israel Deaconess Medical Center, Boston, MA |
| 11 a.m.    | Treating CPVT: Flecaainide Bench-to-Bedside  
Prince J. Kannankeril, MD, MSci, FHR. Vanderbilt University, Nashville, TN |
| 11:30 a.m. | Induced Pluripotent Stem Cell-Derived Cardiomyocytes: A Versatile Tool for Arrhythmia Research  
Martin Tristani-Firouzi, MD. University of Utah, Salt Lake City, UT |
| 10:35 a.m. | How to structure a successful ACHD Electrophysiology Service  
James C. Perry, MD, FHR, CEPS. University of California San Diego - Rady Children's Hospital, San Diego, CA |
| 10:55 a.m. | Understanding and Addressing the Psychiatric Needs of this Population  
Adrienne Kovacs, PhD, Toronto General Hospital, Toronto, ON, Canada |
| 11:15 a.m. | Care of the ACHD Patient in the Children's Hospital: Why Does it Work?  
Dominic J. Abrams, MD, MRCP. Children's Hospital Boston, Boston, MA |
| 11:35 a.m. | ACHD Electrophysiology Care in the Adult Hospital: Why Does it Work?  
Louise Harris, MBCHB, FHR. Toronto General Hospital, Toronto, ON, Canada |
| 11:30 a.m. | **Session SP10. DEBATE AND FDA PERSPECTIVE: STRATEGIES FOR EXPANDING THE INDICATIONS FOR CARDIOVASCULAR DEVICES**  
Policy, Payment, and Practice - ICDs: Implantation, Programming and Follow-up Considerations  
Room 2001, Moscone West  
Special Session  
CME/CE Hours: 1.5  
Session Description: This session will discuss on vs. off-label use of devices within the U.S. Different categories of off-label used to inform your practice patterns will be identified  
Chairs:  
Mina K. Chung, MD, FHR. Cleveland Clinic, Cleveland, OH  
Kimberly Selzman, MD, MPH, FHR. Salt Lake City VA Hospital, Salt Lake City, UT |
| 10:30 a.m. | Case Presentation: Left Atrial Appendage Closure with LARIAT Suture Device  
Erick Altman. Northwell Health, Bay Shore, NY |
| 10:55 a.m. | Off Label use of Lariat for Stroke Risk Reduction in AF is Appropriate  
Sunnet Mittal, MD, FHR. The Valley Health System of New York and New Jersey, New York, NY |
THURSDAY

11:15 a.m. There is Insufficient Data to Use Lariat for Stroke Risk Reduction
Oussama M. Wazni, MD. Cleveland Clinic, Cleveland, OH

11:35 a.m. FDA Perspective: Expanding Indications of Cardiovascular Devices
Jun Dong. Food and Drug Administration

Session SP11. IAC CARDIAC ELECTROPHYSIOLOGY ACCREDITATION PROGRAM

Special Session
Room 2007, Moscone West 10:30 - 12 p.m.
CME/CE Hours: 1.5

Session Description: The Heart Rhythm Society is partnering with the Intersocietal Accreditation Commission (IAC) and others to establish the Cardiac Electrophysiology Accreditation program. The IAC Cardiac Electrophysiology Accreditation program provides a framework for setting national standards and guidelines for the safe and effective delivery of electrophysiology services. The program is designed to improve patient outcomes by ensuring that electrophysiology practices meet or exceed established standards of care.

Chairs: David E. Haines, MD, FHRS. Beaumont Health, Royal Oak, MI
Gerald A. Serwer, MD, FHRS. University of Michigan, Ann Arbor, MI

11 a.m. Standardizing Your Practice
Gerald A. Serwer, MD, FHRS. University of Michigan, Ann Arbor, MI

11:10 a.m. Global View of Pediatrics in Cardiac Electrophysiology
Edward P. Walsh, MD, CCDS. Boston Children's Hospital, Boston, MA

11:20 a.m. The Practice of Chronic Lead Extraction
Waal I. Saliba, MD, FHRS. Cleveland Clinic Foundation, Cleveland, OH

11:30 a.m. IAC Accreditation and Quality Improvement (QI) Measures
Frank Vermeiren, MS, RT (R)(CV), RDCS. International Accreditation, Ellicott City, MD

11:40 a.m. Accreditation Experience: The Impact of Accreditation
Amy S. Leiserowitz, RN, CCDS. Iowa Heart Center, West Des Moines, IA

Session SP12. CES: SODIUM CHANNELS - STRUCTURE, FUNCTION, AND DISEASE MECHANISMS: SESSION II FUNCTION

Special Session - Ventricular Tachycardia & Ventricular Fibrillation: Management, Mechanisms, Diagnosis, and Ablation
Room 307, Moscone South 10:30 - 12 p.m.
CME/CE Hours: 1.5

Session Description: A review of new concepts about the role of the late Na current in normal cardiac function and in arrhythmogenesis

Chairs: Gail A. Robertson, PhD. University of Wisconsin, Madison, WI
Anne B. Curtis, MD, FHRS, CCDS. University at Buffalo, Buffalo, NY

10:30 a.m. Na Channel Complex as an Intracellular Signaling Node
Peter J. Mohler, PhD. The Ohio State University, Columbus, OH

10:50 a.m. What is the Physiological Role of the Late Sodium Current
Jonathan C. Makielski, MD. University of Wisconsin, Madison, WI

11:10 a.m. Regulation of the Late Sodium Current by CaMKII
Thomas Hund, PhD. The Ohio State University, Columbus, OH

11:30 a.m. Role of the Late Sodium Current in Cardiac Arrhythmias
Luiz Belardinelli, MD. CV Therapeutics, Inc., Palo Alto, CA

11:50 a.m. The Last Word
Mario Delmar, MD, PhD, FHRS. New York University, New York City, NY

Session SP13. LIVE CASES PRESENTATIONS: INTERMOUNTAIN MEDICAL CENTER

Special Session
Main Stage - Level 3, Moscone West 10:30 - 12 p.m.
CME/CE Hours: 1.5

Chair: David J. Callans, MD, FHRS, CCDS. University of Pennsylvania, Philadelphia, PA

10:30 a.m. Operator - Case 1
John Doty, MD. Intermountain Medical Center, Salt Lake City, UT

10:30 a.m. Operator - Case 2
Jeffrey S. Osborn, MD, CCDS. Intermountain Medical Center, Salt Lake City, UT

10:30 a.m. Moderator - Case 1
T. Jared Bunch, MD. Intermountain Medical Center, Murray, UT

10:30 a.m. Operator - Case 2
Jonathan Weiss, MD, MSc. Intermountain Medical Center, Salt Lake City, UT

10:30 a.m. Moderator - Case 2
Michael J. Cutler, DO, PhD. MetroHealth Campus of Case Western Reserve University, Cleveland, OH

10:30 a.m. Q & A Moderator
David J. Callans, MD, FHRS, CCDS. University of Pennsylvania, Philadelphia, PA

10:30 a.m. Panelists
Joshua M. Cooper, MD, FHRS. Temple University Hospital, Philadelphia, PA

Session SP36. SYNOCOPE AND STROKE: THE INTERSECTION BETWEEN

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ELECTROPHYSIOLOGISTS AND NEUROLOGISTS: A CASE BASED DISCUSSION

Special Session
Room 135, Moscone North 10:30 - 12 p.m.
Special Session
CME/CE Hours: 1.5

Session Description: This is a case based approach to learning. Actual patient cases of stroke and syncope will be presented to allow a discussion among the panel on these key problems that both electrophysiologists and neurologists see.

Chair: Eric N. Prystowsky, MD, FHRS. St. Vincent Medical Group, Indianapolis, IN

10:30 a.m. Presenters
David G. Benditt, MD, FHRS, CCDS. University of Minnesota, Minneapolis, MN

11 a.m. Rod S. Passman, MD, MSCE, FHRS. Northwestern Memorial Hospital, Chicago, IL

Session EP08. SOCIAL MEDIA AND THE DIGITAL PHYSICIAN

Special Session
EPicenter Theater 1, Hall D 12:15 - 1:15 p.m.
EPicenter

Session Description: As a physician leader, you have a tremendous new opportunity to leverage social media and mobile technologies to improve care, enhance education, and build your career. Learn how to leverage social networking as a high impact p

Chair: Kevin R. Campbell, MD. North Carolina Heart and Vascular, Raleigh, NC

12:15 p.m. Presenter
Nate Gross, MD. Doximity, San Francisco, CA

Session ME01. STEM CELL MODELING OF ARRHYTHMIAS

Basic Translational Science
Room 304, Moscone South 12:15 - 1:15 p.m.
Meet-The-Experts
CME/CE Hours: 1

Session Description: The goal of this session is to provide audience members an opportunity to interact with leaders in the application of stem cells to arrhythmia research.

Chair: David J. Milan, MD. Massachusetts General Hospital, Charlestown, MA

12:15 p.m. Modeling Arrhythmias with Stem Cells
Lior Gepstein, MD, PhD. Technion - Israel Institute of Technology, Haifa, Israel
12:35 p.m. Modeling Arrhythmias with Stem Cells
Joe C. Wu, MD, PhD. Stanford University, Palo Alto, CA
12:55 p.m. Modeling Arrhythmias with Stem Cells
Timothy J. Kamp, MD, PhD. University of Wisconsin, Madison, WI

Session ME02. INCORPORATING NEW TECHNOLOGIES INTO MY CLINICAL PRACTICE: ADAPTING TO THE ERA OF DATA DELUGE

Cardiovascular Implantable Electronic Devices - Implantable Monitors, Sensors, and Novel CIED Devices
Room 3014, Moscone West 12:15 - 1:15 p.m.
Meet-The-Experts
CME/CE Hours: 1

Session Description: The aim of this session is to discuss the need to manage data in clinical practice given the advent and release of novel devices

Chair: Suneet Mittal, MD, FHRS. The Valley Health System of New York and New Jersey, New York, NY
12:15 p.m.  CIED Remote Monitoring  
Colin Movsowitz, MBCHB. Einstein Medical Center  
Montgomery, East Norriton, PA

12:35 p.m.  Implantable Pressure Sensors  
Maria Rosa Costanzo, MD. Midwest Heart Specialists - Advocate Medical Group. Naperville, IL

12:55 p.m.  Implantable Loop Recorders  
Rod S. Passman, MD, MSCE, FHRS. Northwestern Memorial Hospital, Chicago, IL

Session ME03. GENETIC TESTING FOR THE NON-EXPERT: WHO TO TEST AND HOW TO INTERPRET  
Clinical Electrophysiology - Genetics of Cardiac Arrhythmias: AF Mechanisms and Prevention  
Room 2011, Moscone West  
12:15 - 1:15 p.m.  
Meet-The-Experts  
CME/CE Hours: 1

Session Description: The session will provide the clinical cardiologist with a structure for approaching patients who may need genetic testing. When to refer and how to interpret the results.

Chair:  
Carlo Napolitano, MD, PhD. Fondazione Salvatore Maugeri, Pavia, Italy

12:15 p.m.  Genetic Testing to Guide Management: Are we There Yet?  
Christopher Sensarion, MBBS, PhD, FHRS. University of Sydney, Sydney, Australia

12:35 p.m.  General Principles of Genetic Variant Interpretation and Genes of Uncertain Significance  
Michael H. Gollob, MD. Toronto General Hospital, Toronto, ON, Canada

12:55 p.m.  Genetic Testing for Preclinical Disease Detection  
Elijah R. Behr, MA(Cantab), MBBS, MD. St. George’s University of London, London, United Kingdom

Session SP16. HEARTRHYTHM JOURNAL PRESENTS - NEW MECHANISMS OF CARDIAC ARRHYTHMIA  
Special Session  
Room 2010, Moscone West  
12:15 - 1:15 p.m.

Session Description: This session is focused on the new mechanisms of cardiac arrhythmia. These new mechanisms included both molecular/genetic basis of cardiac arrhythmia and new clinical observations on AF and VT ablations.

Chair:  
Arthur A. M. Wilde, MD. University of Amsterdam, Amsterdam, Netherlands

12:15 p.m.  Plasma microRNAs are Associated with Atrial Fibrillation and Change after Catheter Ablation (themiRhythm study)  
David McManus, MD. Univ of Massachusetts, Worcester, MA

12:30 p.m.  Freedom from Recurrent Ventricular Tachycardia after Catheter Ablation Is Associated with Improved Survival  
Katherine G. Spoonamore, MS. Indiana University School of Medicine, Indianapolis, IN

12:45 p.m.  Psychologist/Therapist’s Role in Arrhythmia Patient Care  
Samuel F. Sears, PhD. East Carolina University, Greenville, NC

1 p.m.  The Role of the EP Administrator to Improve Outcomes  
Robin A. Leahy, RN, FHS, CCDS. Sanger Heart & Vascular Institute, Charlotte, NC

Session SP15. WOMEN IN EP NETWORKING LUNCHEON: GIVING BACK - TRIALS AND TRIBULATIONS OF CARDIAC MEDICAL MISSIONS  
Special Session - Heart Failure: Etiology, Diagnosis, and Management  
Room 121. Moscone North  
12:15 - 1:15 p.m.

Session Description: The annual women in EP luncheon offers a unique opportunity to debate, discuss and network. The topic for this year’s lunch discussion is how women in EP can engage in giving back to communities in need with a focus on cardia

Chairs:  
Ulrika Birgersdotter-Green, MD, FHRS, CCDS. University of California - San Diego, La Jolla, CA
Andrea M. Russo, MD, FHRS. Cooper University Hospital, Camden, NJ

12:15 p.m.  Panelist  
Cynthia M. Tracy, MD. George Washington University, Washington, DC

12:30 p.m.  Panelist  
Theofanie Mela, MD. Massachusetts General Hospital, Boston, MA

12:45 p.m.  Panelist  
Uma N. Srivatsa, MD, FHR. University of California - Davis Medical Center, Sacramento, CA

1 p.m.  Panelist  
Ana Natera, MSc MBA. Medtronic

Session SP14. ALLIED PROFESSIONALS LUNCHEON: WHO ARE THE NEW TEAM MEMBERS AND WHAT IS THEIR VALUE  
Allied Professionals  
Room 120, Moscone North  
12:15 - 1:15 p.m.  
Special Session  
CME/CE Hours: 1

Session Description: This session will review the varied “new” team members who give important contributions to heart rhythm care. The various roles of genetics counselor, psychologist, pharmacist and administrator will be discussed.

Chairs:  
Heather M. Ross, DNP, ANP-BC, FHR, CCDS, CEPS. Arizona Arrhythmia Consultants, Scottsdale, AZ
Jill L. Repoley, MSN, NP, FHR, CCDS, CEPS. The Heart Group of Lancaster General Health, Lancaster, PA

12:15 p.m.  Role of the PharmD in Heart Rhythm Care  
Kristen Bova Campbell, PharmD. Duke University Medical Center, Durham, NC

12:30 p.m.  Imbedding the Genetics Counselor in Your Arrhythmia Center  
Katherine G. Spoonamore, MS. Indiana University School of Medicine, Indianapolis, IN

12:45 p.m.  Psychologist/Therapist’s Role in Arrhythmia Patient Care  
Samuel F. Sears, PhD. East Carolina University, Greenville, NC

1 p.m.  The Role of the EP Administrator to Improve Outcomes  
Robin A. Leahy, RN, FHS, CCDS. Sanger Heart & Vascular Institute, Charlotte, NC

Session SP15. WOMEN IN EP NETWORKING LUNCHEON: GIVING BACK - TRIALS AND TRIBULATIONS OF CARDIAC MEDICAL MISSIONS  
Special Session - Heart Failure: Etiology, Diagnosis, and Management  
Room 121. Moscone North  
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Chairs:  
Ulrika Birgersdotter-Green, MD, FHRS, CCDS. University of California - San Diego, La Jolla, CA
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12:30 p.m.  Panelist  
Theofanie Mela, MD. Massachusetts General Hospital, Boston, MA

12:45 p.m.  Panelist  
Uma N. Srivatsa, MD, FHR. University of California - Davis Medical Center, Sacramento, CA

1 p.m.  Panelist  
Ana Natera, MSc MBA. Medtronic
1:30 p.m.  
**Session AB01. TEACHING CASE ABSTRACTS**  
**Allied Professionals**  
Room 130, Moscone North  
1:30 - 3 p.m.  
CME/CE Hours: 1.5  
ASRT/ARRT: DCD0056113

**Session Description:** This session will review unique case reports presented by allied professionals highlighting treatment of complex arrhythmia or device issues.

**Chairs:**  
Cory M. Tschabrunn, CEPS, Beth Israel Deaconess Medical Center, Boston, MA  
Jill L. Repoley, MSN, NP, FHRS, CCDS, CEPS, The Heart Group of Lancaster General Health, Lancaster, PA

1:30 p.m.  
**AB01-01:** Sinus Node Dysfunction: An Uncommon Complication of Left Sided Flutter Ablation  
Robert Hipp, PA and Mathew Hutchinson, MD, FHRS, University of Pennsylvania, Philadelphia, PA

1:45 p.m.  
**AB01-02:** Defibrillation Threshold Testing to Guide Management in Patients with a Continuous Flow Left Ventricular Assist Device  
Erin E. Flatley, MSN, NP, RN, Viktoriya Kagan, MSN, NP, RN, Holly Ruedlinger, MSN, NP, RN, Colleen J. Juricek, MS, RN, Nir Uriel, MD and Joshua D. Moss, MD, University of Chicago, Chicago, IL

2 p.m.  
**AB01-03:** Left Atrial Divergiculums as the Site of Focal Atrial Tachycardias  
Simon Stolzmann, BSc, Lauren Wilson, BSc, Dian A. Munawar, MBBS, Darragh Twomey, MBBS, Melissa E. Middeldorp, No Degree, Sharath Kumar, MD, Rajiv Mahajan, MD, PhD, Dennis H. Lau, MBBS, PhD and Prashanthan Sanders, MBBS, PhD. Centre for Heart Rhythm Disorders, University of Adelaide and Royal Adelaide Hospital, Adelaide, Australia

2:15 p.m.  
**AB01-04:** Saved by an LVAD: Sustained Rhythmic Ventricular Tachycardia Misclassified as SVT in the Ventricular Fibrillation Zone  
Jennifer L. Winfield, RN, BSN, Robyn Haren, MSN, NP, RN, Alex Y. H. Tan, MD, Kenneth A. Ellenbogen, MD, FHRS, Jose F. Huizar, MD, FHRS and Karoly Kaszala, MD, FHSRS, McGuire VAMC, Richmond, VA, Medical College of Virginia, Richmond, VA

2:30 p.m.  
**AB01-05:** The Calm Before the Storm: Time Course and Imaging Precursors for Identification of an AtrioEsophageal Fistula Following Catheter Ablation of Atrial Fibrillation  
William Cho, PA, Eugene Kholmovski, PhD, Nassir Marrouche, MD, FHRS and Frederick T. Han, MD, University of Utah Hospital, Salt Lake City, UT, University of Utah, Salt Lake City, UT

4:15 p.m.  
**AB01-06:** Improved Workflow for CIED Remote Monitoring Management: A Quantitative Study  
Elizabeth E. Davenport, RN, Terri L. Cooper, RN, Amy G. Tucker, RN, BSN, Amanda Sowell, RN, BSN, Jhie Tolentino-Hubbard, RN, BSN, Amisha S. Patel, MS, Robin A. Leahy, RN, BSN, FHSRS and Rohit Mehta, MD, FRS, Sanger Heart and Vascular Institute, Charlotte, NC, Medtronic, Inc, Cardiac Rhythm Disease Management, Mounds View, MN

1:30 p.m.  
**Session AB02. MECHANISMS OF ARRHYTHMIAS**  
**Basic Translational Science**  
Room 303, Moscone South  
1:30 - 3 p.m.  
CME/CE Hours: 1.5  
ASRT/ARRT: DCD0056114

**Chairs:**  
Vadim V. Fedorov, PhD. The Ohio State University, Columbus, OH  
Gregory E. Morley, PhD. New York University, New York, NY

1:30 p.m.  
**AB02-01:** Electrophysiological substrate of early repolarization syndrome in humans  
Richard D. Walton, PhD, Caroline Cros, PhD, Marine E. Martinez, MSc, David Benoist, PhD, Caroline Pascairel-Auclerc, PhD, Josselin Duchateau, MD, Yunbo Guo, PhD, Philippe Pasdois, PhD, Fanny Vaillant, PhD, Sébastien Chaigne, BSc, Line Porteau, PhD, Sébastien Depuis, MSc, Marion Constantin, BSc, Virginie N. Dubes, MSc, Dominique Detaille, PhD, Thomas Desplantez, PhD, Philippe Dzielez, PhD, Bruno Stuyvers, PhD, Bruno Quesson, PhD, Michel Haissaguerre, PhD, Julien Rogier, MD, Louis Labrousse, MD, Fabien Brette, PhD, Meleze Hocini, MD and Olivier Bernus, PhD. Université de Bordeaux, Bordeaux, France, Université de Bordeaux, Pessac, France, Hospital Cardiologique Haut Leveque - Université Bordeaux, Pessac, France, Hospital Haut Leveque, Pessac, France, LIRYC Institute, University Hospital of Haut Léveque, Bordeaux-Pessac, France

1:45 p.m.  
**AB02-02:** The effect of short lasting rotating waves on atrial fibrillation complexity  
Prashanthan Sanders, MBBS, PhD. Centre for Heart Rhythm Disorders, University of Adelaide and Royal Adelaide Hospital, Adelaide, Australia

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Session AB03. NOVEL THERAPEUTIC APPROACHES FOR CARDIAC ARRHYTHMIAS

Abstract

Room 304, Moscone South

1:30 - 3 p.m.

CME/CE Hours: 1.5

Chairs: Saumya Das, MD, PhD. Beth Israel Deaconess Medical Center, Boston, MA
Nicholas S. Peters, MD, PhD, FHRS. Imperial College London, London, United Kingdom

1:30 p.m.

AB03-01: Gene transfer of calmodulin alleviates ventricular arrhythmias in a calsequestrin-associated model of catecholaminergic polymorphic ventricular tachycardia

Bing Liu, PhD, Shana Walton, BS, Hsiang-Ting Ho, PhD, Andriy Belevych, PhD, Przemys&.aw Radwa&.skl, PharmD, PhD, Vikram Shettigar, PhD, Jianchao Zhang, PhD, Silvia G. Priori, MD, PhD, Pompeo Volpe, PhD, Jonathan Davis, PhD and Sandor Gyorke, PhD. The Ohio State University, Columbus, OH, Fondazione Salvatore Maugeri University of Pavia, Pavia, Italy, University of Padova, Padova, Italy

1:45 p.m.

AB03-02: Efficacy of Flecainide in a large cohort of patients with catecholaminergic polymorphic ventricular tachycardia

Krystien V. Lieve, MD, Christian van der Werf, MD, Johan M. Bos, MD, PhD, Esther Zorio Grima, MD, PhD, Isabelle Denjoy, MD, Thomas M. Roston, BA, Jodie Ingles, MPH, Tomas Robyns, MD, Michael Tanok, PhD, Takeshi Aiba, MD, PhD, Maarten P. Van Den Berg, MD, PhD, Ehud Chorin, MD, MSc, Stuart A. Ostby, BS, Wataru Shimizu, MD, PhD, Naokata Sumitomo, MD, PhD, Frederic Sacher, MD, Prince J. Kannankeril, MD, PhD, Vincent Probst, MD, Sami Viskin, MD, Andrew D. Krahn, MD, FHRS, Christopher Semsarian, MBBS, PhD, Shubhayan Sanatani, MD, PhD, Michael J. Ackerman, MD, PhD, Leenhardt Antoine, MD, PhD and Arthur A. Wilde, MD, PhD. Academic Medical Center, Amsterdam, Netherlands, Mayo Clinic, Rochester, MN, University Hospital La Fe, Valencia, Spain, Hopital Lariboisiere, Paris, France, BC Children’s Hospital, Vancouver, BC, Canada, University of Sydney, Sydney, Australia, University Hospitals Leuven, Leuven, Belgium, National Cardiovascular Center, Suita, Japan, Universitair Medisch Centrum Groningen, Groningen, Netherlands, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel, Nippon Medical School, Yokohama, Japan, Nihon Univ Sch Of Med, Tokyo, Japan, Bordeaux University Hospital / LR1YC institute, Bordeaux, France, Vanderbilt University Medical Center, Nashville, TN, L’institut de la Frax, Nantes, France, Tel Aviv Medical Center, Tel Aviv, Israel, Gordon & Leslie Diamond Health Care Centre, Vancouver, BC, Canada, Children’s Heart Centre, Vancouver, BC, Canada, University Hospital Lariboisiere Paris, Paris, France, University of Amsterdam, Amsterdam, Netherlands

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Norbert Jost, PhD, Zsofia Kohajda, MSc, Norbert Nagy, PhD, Amir Geramipour, PharmD, Varga S. Richard, MSc, Homiyk Tibor, MD, Balázs Horváth, MD, PhD, Anita Kormos, PhD, Karoly Acsai, PhD, Jouko Levijoki, PhD, Piero Pollesello, PhD, Tulia Kospelainen, PhD, Leena Otsomaa, PhD, András Toth, PhD, Istvan Baczko, MD, PhD, Peter P. Nanasi, MD, ScD, Julius Gy. Papp, MD, ScD, Laszlo Virag, PhD and András Varro, MD, ScD. University of Szeged, Department of Pharmacology and Pharmaco-therapy, Szeged, Hungary, MTA-SZTE Research Group of Cardiovascular Pharmacology, Szeged, Hungary, University of Debrecen, Department of Physiology, Debrecen, Hungary, Onora Pharma, Espoo, Finland

2:15 p.m. **AB03-04:** Blocking of Nav1.8 channel in left stellate ganglion suppresses the ventricular arrhythmias induced by acute ischemia
Menglong Wang, MD, Lifei Yu, MD, PhD, Bing Huang, MD, PhD, Liping Zhou, MD, Dan Hu, MD, PhD, Zhuo Wang, MD, Songyun Wang, MD and Hong Jiang, MD. Renmin Hospital of Wuhan University, Wuhan, China, Masonic Medical Research Laboratory, Utica, NY

2:30 p.m. **AB03-05:** Dantrolene Prevents Atrial Fibrillation Induction in a Tachycardia-Remodeled Substrate by Stabilizing Ryanodine Receptors
Tao Liu, PhD, Feng Wang, PhD, Xiao-Yan Qi, PhD, Yoshihito Sobue, MD, Wanping Zhou, MD, Congxin Huang, MD, PhD, Dobromir Dobrev, MD, PhD and Stanley Nattel, MD, PhD. FHSRS. Montreal Heart Institute, Université de Montréal, Montreal, QC, Canada, Children’s Hospital, Soochow University, Suzhou, China, Renmin Hospital, Wuhan University, Wuhan, China, Institute of Pharmacology, University of Duisburg-Essen, Essen, Germany

2:45 p.m. **AB03-06:** The role of endothelin-receptor blockade in the prevention of the substrate for atrial fibrillation - an interventional study in an obese ovine model
Daragh J. Twomey, MBBS, Rajiv Mahajan, MD, PhD, Shivshankar Thanigaimani, PhD, Adil Rajwani, MBChB, PhD, Jim Manavis, BSc, Dennis H. Lau, MBBS, PhD and Prashanthan Sanders, MBBS, PhD. Centre for Heart Rhythm Disorders, University of Adelaide and Royal Adelaide Hospital, Adelaide, Australia

Chuan Wang, PhD, He Tang, BS, Eric Q. Wei, BSc, Zhihua Wang, BS, Jing Yang, PhD, Sheng Wang, PhD, Yongjian Zhang, PhD, Geoffrey S. Pitt, MD, PhD and Haijun Zhang, PhD. Hebei Medical University, Shijiazhuang, China, Duke University Medical Center, Durham, NC

1:45 p.m. **AB04-02:** Genomic editing in iPSCs establishes that a rare Tbx5 variant causes Brugada syndrome
Kevin R. Bersell, MA, Tao Yang, PhD, Charles C. Hong, MD, PhD, Evmorfia Petropoulou, No Degree, Yalda Zazim, PhD, Qin S. Wells, MD, Prince J. Kannankeril, MD and Dan M. Roden, MD, FHRs, Vanderbilt University School of Medicine, Nashville, TN, Vanderbilt University, Nashville, TN, St. George’s University of London, London, United Kingdom, Vanderbilt University Medical Center, Nashville, TN

2 p.m. **AB04-03:** Extended GWAS In Brugada Syndrome Uncovers Additional Risk Alleles At The SCNSA/SCN10A Locus With Marked Cumulative Effects On Risk For The Disorder
Julien Bars, PhD, Yuka Mizusawa, MD, Christian Dina, PhD, Jean-Baptiste Gourraud, MD, PhD, Florian Simonet, MSc, Elijah R. Behr, MD, PhD, Eric Schulze-Bahr, MD, PhD, Dieter Nuyens, MD, Johan Saenen, MD, PhD, Pier D. Lambiase, MD, Pascale Guicheney, PharmD, PhD, Martin M. Borggreve, MD, PhD, Charles Antzelevitch, PhD, FFRS, Stefan Kaab, MD, PhD, Jacob Teit-Hansen, MD, PhD, Dan M. Roden, MD, FFRS, Ramon Brugada, MD, PhD, Silvia G. Priori, MD, PhD, Peter J. Schwartz, MD, Carla Giustetto, MD, Jean-jacques Schott, PhD, Vincent Probst, MD, Arthur A. Wilde, MD, PhD, Richard Redon, PhD and Connie R. Bezzina, PhD. l’Institut du Thorax - INSERM U1087, Nantes, France, Department of Experimental Cardiology, Academic Medical Center, Amsterdam, Netherlands, l’Institut du Thorax, Nantes, France, Clinique Cardiologique, L’Institut du Thorax, CHU de Nantes, Nantes, France, St. George’s University of London, London, United Kingdom, Institute for Genetics of Heart Diseases (IGH), Munich, Germany, Department of Cardiovascular Sciences, University of Leuven, Leuven, Belgium, Cardiology Department, University Hospital of Antwerp, Antwerp, Belgium, Heart Hospital, London, United Kingdom, Institute of Myology, INSERM Unit 582, Paris, France, University of Heidelberg, Mannheim, Germany, Lankenau Institute for Medical Research, Lankenau Heart Institute, Wynnewood, PA, LMU Munich Klinikum Grosshadern, 81366 Munich, Germany, Department of Cardiology, The Heart Centre, Copenhagen University Hospital Rigshospitalet, Copenhagen, Denmark, Vanderbilt University School of Medicine, Nashville, TN, Cardiovascular Genetics Center, University of Girona - IDIBGI, Spain; Department of Medical Sciences, School of Medicine, University of Girona, Girona, Spain, Fondazione Salvatore Maugeri University of Pavia, Pavia, Italy, University of Pavia/Fondazione IRCCS Policlinico San Matteo, Pavia, Italy, University of Turin, Department of Medical Science, Division of Cardiology, Città della Salute e della Scienza Hospital, Turin, Italy, Inserm UMR 1087, Nantes, France, University of

Session AB04. BRUGADA SYNDROME: NOVEL INSIGHTS ON MECHANISMS

**Basic Translational Science**
Room 307, Moscone South

Abstract Plus
1:30 - 3 p.m.

**CME/CE Hours:** 1.5

**Session Description:** All of these abstracts converge on providing novel insight into the mechanisms responsible for Brugada syndrome.

**Chairs:**
Marina Cerrone, MD. New York University Langone Medical Center, New York, NY
Carol Ann Remme, MD, PhD. Academic Medical Center, Amsterdam, Netherlands

1:30 p.m. **AB04-01:** Conditional knockout of Fgf13 in murine hearts increases arrhythmia susceptibility and reveals novel ion channel regulatory roles

Program as of April 20, 2016
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Session AB05: THE SUBCUTANEOUS ICD: IMPROVING EFFICACY

Cardiovascular Implantable Electronic Devices - Implantable Monitors, Sensors, and Novel CIED Devices

Room 2014, Moscone West

1:30 - 3 p.m.

Abstract Plus F PM

CME/CE Hours: 1.5

Session Description: The aim of this session is to review the various means which are being investigated to improve the efficacy of the subcutaneous ICD

Chairs: Martin Burke, DO, University of Chicago, Chicago, IL
Sanjeev Saksena, MBBS, FHRSA, Rutgers - Robert Wood Johnson Medical School, Warren, NJ

1:30 p.m. AB05-01: Evaluation of a High Pass Filter Designed to Reduce Oversensing in the S-ICD
Dominic A. Theuns, PhD, Martin Burke, DO, Venugopal Allavatam, MS, Paul W. Jones, MS and Michael R. Gold, MD, PhD, FHRSA. Erasmus Medical Center, Rotterdam, Netherlands, University of Chicago Hospitals, Chicago, IL, Boston Scientific, St. Paul, MN, Medical University of South Carolina, Charleston, SC

1:45 p.m. AB05-02: Performance of a Novel Atrial Fibrillation Detection Algorithm for Use in Patients with a Subcutaneous Implantable Cardioverter Defibrillator
Lucas V. A. Boerma, MD, PhD, Deepa Mahajan, PhD, Paul W. Jones, MS and Suneet Mittal, MD, St. Antonius Ziekenhuis, Nieuwegein, Netherlands, Boston Scientific, St Paul, MN, Boston Scientific, St. Paul, MN, The Valley Hospital, Ridgewood, NJ

2 p.m. AB05-03: Impact of Generator Location and Sub-Coil Fat on Subcutaneous-ICD Defibrillation Thresholds
E. Kevin Heist, MD, PhD, FHRSA, Wyatt Stahl, BS and Andres Belalcazar, PhD, Massachusetts General Hospital, Boston, MA, Boston Scientific CRM, St. Paul, MN, Minneapolis, MN

2:15 p.m. AB05-04: Impact of BMI on Safety and Efficacy of the Subcutaneous ICD
David S. Frankel, MD, FHRSA, Martin Burke, DO, David J. Callans, MD, Tim Stivland, BA, Elizabeth Dufly, BA and Andrew E. Epstein, MD, FHRSA, Hospital of the University of Pennsylvania, Philadelphia, PA, University of Chicago Hospitals, Chicago, IL, University of Pennsylvania, Philadelphia, PA, Boston Scientific, Arden Hills, MN, Boston Scientific, Minneapolis, MN

2:30 p.m. AB05-05: First Report On Communicating Leadless Anti-Tachycardia Pacemaker and Subcutaneous Implantable Defibrillator
Fleur V.y. Tjong, MD, Tom F. Brouwer, MD, Kirsten M. Kooiman, PA, Lonneke Sme, MSc, Allan Shuros, MSc, Brendan Koop, PhD, Arthur A. Wilde, MD, PhD, Martin C. Burke, DO and Reinoud E. Knops, MD, Academic Medical Center, Amsterdam, Netherlands, Boston Scientific Corporation, St. Paul, MN, University of Amsterdam, Amsterdam, Netherlands, University of Chicago, Chicago, IL

2:45 p.m. Abstract Commentator
Reinoud E. Knops, MD, CCDS. Academic Medical Center, Amsterdam, Netherlands

Session AB06: CIED IMPLANTATION TECHNIQUES AND OUTCOMES

Cardiovascular Implantable Electronic Devices - ICDs: Implantation, Programming and Follow-up Considerations

Room 2020, Moscone West

1:30 - 3 p.m.

Abstract F PM

CME/CE Hours: 1.5

Session Description: This session highlights the highest scoring abstracts related to CIED implantation issues.

CIED Implantation Techniques and Outcomes: Scott Sakaguchi.
University of Minnesota, Minneapolis, MN
Gerald V. Naccarelli, MD, FHRSA, Pennsylvania State Hershey Heart and Vascular Institute, Hershey, PA

1:30 p.m. AB06-01: Incidence of thoracic vein stenosis in device upgrade patients: A retrospective analysis
Jason Davis, MBBS, Gerald C. Kaye, MBChB, John N. Hill, FRACP, Paul A. Gould, FRACP, Benjamin Pearch, MBBS and Andrew Clautghon, BSc, Princess Alexandra Hospital, Brisbane, Australia

1:45 p.m. AB06-02: Right ventricular septal pacing is associated with higher rates of atrial fibrillation
Session AB07. BIOMONITORS FOR ARRHYTHMIA DETECTION
Cardiovascular Implantable Electronic Devices - ICDS: Implantation, Programming and Follow-up Considerations
Room 2011, Moscone West
1:30 - 3 p.m.
Abstract Plus
F
CME/CE Hours: 1.5

Session Description: This session will highlight the highest scoring abstracts focused on use of ambulatory biomonitors for arrhythmia detection.

Chairs:  
Kristen K. Patton, MD, University of Washington, Seattle, WA  
Aravindan Kolandaivelu, MD, Johns Hopkins University, Baltimore, MD

1:30 p.m.  
AB07-01: Real World Comparison of In-Hospital Reveal LINQ Insertion Inside and Outside of the Cardiac Catheterization or Electrophysiology Laboratory  
Sean C. Beinart, MD, FHRS, Andrea Natale, MD, FHRS, Atul Verma, MD, FRCP, Alpesh N. Amin, MD, Scott Kasner, MD, MSc, Hans-Cristoph Diener, MD, PhD, Maurizio Del Greco, MD, Bruce L. Wilkoff, MD and Suneeet Mittal, MD, Washington Adventist Hospital, Takoma Park, MD, Texas Cardiac Arrhythmia Institute, St. David’s Medical Center, Austin, TX, Southlake Regional Health Centre, Newmarket, ON, Canada, University of California, Irvine, CA, University of Pennsylvania, Philadelphia, PA, University Hospital Essen, Essen, Germany, Hospital of Rovereto, Trento, Italy, Cleveland Clinic, Cleveland, OH, The Valley Hospital, Ridgewood, NJ

1:45 p.m.  
AB07-02: PREDICT: Atrial Fibrillation or Flutter (PREDICT-AF) Study: Interim Analysis  
Javed M. Nasir, MD, Adam Marler, MW, William Pomeroy, MD, Matthew C. Hann, MD, Tina Baykaner, MD, MPH, Richard Stoll, RN, Katie Hursey, BSN, Angela Meadows, MSN, RN, RN, Jennifer Walker Weber, MSN, NP, RN and Steve Kindsvater, MD, Stanford University, Stanford, CA, Keesler Medical Center, Biloxi, MS

2 p.m.  
AB07-03: Use of a Patch Worn Wireless Multi-Sensor Biometric Monitor for Hospitalized Patients Not Referred to a Telemetry Unit  
Roy Lin, MD, Christiane Abouzeid, MD, Andrew Keibel, MD, Merije Chukumerije, MD, Jerry Kwong, MD, Julie Berkley, MPH, Jason Porterfield, BSc, Dale Kale, MS and Leslie A. Saxson, MD, University of Southern California, Los Angeles, CA

2:15 p.m.  
AB07-04: Feasibility of automated detection of sleep apnea using implantable pacemakers and defibrillators  
Giovanni B. Forleo, MD, Sergio Valdecchi, PhD, Domenico G. Della Rocca, MD, Luca Santini, MD, PhD, Sergio Valsecchi, PhD, Domenico G. Della Rocca, MD, Luigi Di Biase, MD, PhD, FHRS, Policlinico Tor Vergata, Rome, Italy, Boston Scientific, Milan, Italy, University of Rome Tor Vergata, Rome, Italy, Texas Cardiac Arrhythmia Institute, Austin, TX, Texas Cardiac Arrhythmia Institute at St. David’s Medical Center and Albert Einstein College of Medicine at Montefiore Hospital, Austin, TX

2:30 p.m.  
AB07-05: A dual sensing scheme to reduce inappropriate detection of bradycardia and pauses in an insertable cardiac monitor  
Shantanu Sarkar, PhD, Jerry Reiland, MS, Erin Reisfeld, MS and Ryan Wyszynski, BS, Medtronic PLC, Moundsview, MN

2:45 p.m.  
Abstract Commentator  
Taya Glotzer, MD, FHRS. Hackensack University Medical Center, Hackensack, NJ

Session AB08. NOVELTIES IN CRT AND DEFIBRILLATIONS
Cardiovascular Implantable Electronic Devices - Brachytherapy, AV Block, and Bradycardia Devices
Room 3002, Moscone West  
1:30 - 3 p.m.
Abstract  
F PM
Session Description: this session will provide practical information of the baseline characteristics of the patients on CRT efficacy, the role of ICDs in patients with LVAD and the potential role of wearable defibrillators

Chairs:
Behzad B. Pavri, MD. Thomas Jefferson University, Philadelphia, PA
Soraya Samii, MD, PhD, FHRS, Pennsylvania State Hershey Heart and Vascular Institute, Hershey, PA

1:30 p.m. AB08-01: Multiple comorbidities and response to CRT-D: Results from the MADIT-CRT long-term follow-up study
Emily P. Zeitler, MD. Duke University Hospital, Durham, NC

1:45 p.m. AB08-02: Impact of Baseline PR Interval on Outcomes after CRT in Patients with Narrow QRS Complexes and Echocardiographically Detected Dysynchrony: A Subgroup Analysis of the ECHO-CRT Trial
Behzad B. Pavri, MD, Alison Trainer, BS, Anand Kenia, MD, Grzegorz Pietrasik, MD, Frank Ruschitzka, MD, Johannes Holzmeister, MD, William T. Abraham, MD, Jagmeet P. Singh, MD, Migelele Robertson, MPH, Kelly Mohr, BS and Josep Brugada Terradellas, MD, PhD. Thomas Jefferson University, Philadelphia, PA, University Hospital in Zürich, Zurich, Switzerland, University Hospital Zurich, Zurich, Switzerland, Ohio State University Heart Center, Columbus, OH, Massachusetts General Hospital, Boston, MA, University of Glasgow, Glasgow, United Kingdom, Biotronik, Lake Oswego, OR, University of Barcelona, Barcelona, Spain

2 p.m. AB08-03: Cardiac resynchronization therapy in the elderly with or without an implantable defibrillator
Michael Doering, MD, Andreas Mueseggbrodt, MD, Kerstin Bode, MD, Micaela Ebert, MD, Philipp Sommer, MD, Sascha Rolf, MD, Arash Aya, MD, Andreas Bollmann, MD, Gerhard Hindricks, MD and Sergio Richter, MD. University Leipzig, Heart Centre, Leipzig, Germany

2:15 p.m. AB08-04: ICDs are associated with greater survival after LVAD implantation: A meta-analysis
Mohammed Shurrab, MD, MSc, Stephen Pettit, MD, Soon J. Park, MD, Safaa Alturman, MD, Aesha Sbahi, MD, Ghaith Khaleel, MD, Eugene Crystal, MD, Mark Petrie, MD and Saleem Haj Yahia, MD, An-Najah National University Hospital, An-Najah National University, Nablus, Palestinian Territory, Papworth Hospital NHS Foundation Trust, Cambridge, United Kingdom, University Hospitals Case Medical Center, Cleveland, OH, Sunnybrook Health Sciences Centre, University of Toronto, Toronto, ON, Canada, Golden Jubilee Hospital, Glasgow, United Kingdom

2:30 p.m. AB08-05: Implantable Cardioverter Defibrillator Therapy in Patients with Improved Left Ventricular Ejection Fraction A Meta Analysis
Aiman M. Smer, MBChB, Mohsin Salih, MBChB, Alok Saurav, MD, Mohamed Ayan, MD, Muhammad Soubbi Azzouz, MD, Ahmed Abuzaid, MD, Arun Kanmanthareddy, MD, Saurabh Aggarwal, MD and Hussan Abussa, MD. Creighton University Medical Center, Omaha, NE, St Luke’s Hospital, Chesterfield, MO, The University of Kansas Medical Center, Kansas City, KS, Chicago Medical School, North Chicago, IL, Creighton University, Omaha, NE

2:45 p.m. AB08-06: Study Of The Wearable Cardioverter Defibrillator in Advanced Heart-Failure Patients (SWIFT)
Alon Barsheshet, MD, Valentina Kutyifa, MD, Theodora Vamvouris, MS, Arthur J. Moss, MD, Yitschak Biton, MD, Leway Chen, MD, Eugene Stozynskyz, MD, Chingping Wan, MD, Steven J. Szymkiewicz, MD and llan Goldberg, MD. Robin Medical Center, Petah Tikva, Israel, University of Rochester Medical Center, Rochester, NY, ZOLL, Pittsburgh, PA, LifeCor Inc., Pittsburgh, PA, University of Rochester Medical Center - Heart Research Follow-up Program, Rochester, NY

Session AB09. CRYOBALLOON ABLATION
Catheter Ablation
Room 2002, Moscone West 1:30 - 3 p.m. Abstract
CME/CE Hours: 1.5

Session Description: This session will discuss new techniques and complications related to the use of Cryoballoon for AF ablation

Chairs:
Jie Cheng, MD, PhD. Texas Heart Institute, Houston, TX
Robert C. Kowal, MD, PhD, FHRS. Cardiology Consultants of Texas- Baylor University Medical Center, Dallas, TX

1:30 p.m. AB09-01: The Bronchial Effects of Cryoballoon Ablation for Atrial Fibrillation
Nishant Verma, MD, MPH, Colin T. Gillespie, MD, Albert C. Lin, MD, Todd T. Tomson, MD, Sanjay Dandamudi, MD, Paloma Pina, MD, Sukit Ringwala, MD, MPH, Alexandru B. Chicos, MD, Susan S. Kim, MD, Rishi Arora, MD, Rod S. Passman, MD and Bradley P. Knight, MD, FHRS. Northwestern University, Chicago, IL

1:45 p.m. AB09-02: Periesophageal Vagal Injury During Freezing Left Inferior Pulmonary Vein: Safety Concerns of Atrial Fibrillation Cryoballon Ablation
Li-Wei Lo, MD, Ching-Liang Lu, MD, Ting-Wei Liao, No Degree, Yenn-Jiang Lin, MD, Shih-Ling Chang, MD, Fa-Po Chung, MD, Yu-Yeng Hu, MD, Hung-Yu Chang, MD and Shih-Ann Chen, MD. Taipei Veterans General Hospital, Taipei, Taiwan, National Yang-Ming University, Taipei, Taiwan, Taipei Veteran General Hospital, Taipei, Taiwan, Cheng-Hsin General Hospital, Taipei, Taiwan, Taipei Veterans General Hospital/National Yang-Ming University, Taipei, Taiwan

2 p.m. AB09-03: Lessons Learned from Atrial Fibrillation Cryoballoon Lesion Assessment and Quantification with Delayed-Enhancement Magnetic Resonance Imaging
Frederick T. Han, MD, FHRS, Ravi Ranjan, MD, PhD, Gagandeep Kaur, No Degree, Kara Ann Johnson, No Degree, Christina F. Pacchia, PhD, Eugene G. Kholmovski, PhD, Jayanthi N. Koneru, MD and Kenneth A. Ellenbogen, MD, FHRS. University of Utah Health Sciences Center, Salt Lake City, UT, University of Utah, Salt Lake City, UT
2:15 p.m. **AB09-04**: Recconnection Rate and Long-Term Outcome With Adenosine Provocation During Cryoballoon Ablation for Pulmonary Vein Isolation
Rachel M. Kaplan, MD, Sanjay Dandamudi, MD, Martha Bohn, RN, BSN, Nishant Verma, MD, Todd T. Tomson, MD, Paloma Pina, MD, Sukit Ringwala, MD, Rishi Arora, MD, Alexandru B. Chicos, MD, Jeffrey J. Goldberger, MD, FFRS, Susan S. Kim, MD, MD, Bradley P. Knight, MD, FFRS, Albert C. Lin, MD and Rod S. Passman, MD, Northwestern University, Chicago, IL, Northwestern Memorial Hospital, Chicago, IL, Northwestern Univ - McGaw Medical Center, Chicago, IL, Northwestern Memorial Hospital, Dept of Cardiology, Chicago, IL

1:45 p.m. **AB10-02**: Incidence of drivers of persistent atrial fibrillation in the right atrium
Grégoire Massoulié, MD, Nicolas Devval, MD, Ghassem Cheniti, MD, Masateru Takigawa, MD, Antonio Frontera, MD, Jean-Yves Wielandts, MD, Nathan Thompson, MD, Nora Jefairi, MD, Elvis Teijeira, MD, Sana Amraoui, MD, Arnaud Chaumeil, MD, Arnaud Denis, MD, Frederic Sacher, MD, Pierre Jais, MD, Meleze Hocini, MD and Michel Haissaguerre, MD, Bordeaux University Hospital, Bordeaux, France, Bordeaux University Hospital, Pessac, France

2:00 p.m. **AB10-03**: Detection of rotors and focal impulses using FIRM mapping based on a 64-pole basket catheter in atrial fibrillation patients: Pitfalls due to lack of 3D location and signal quality
Philipp Halbfass, MD, Karin Nentwich, MD, Markus Roos, MD, Kai Sonne, MD, Attilla Szoliösi, MD, Franziska Fochler, MD, Elena Ene, MD, Rudy Reich, BSc and Thomas Deneke, MD, FFRS, Heart Center Bad Neustadt, Bad Neustadt a.d. Saale, Germany, Bioskop Seal, Harrheim, Germany, Oxbridge Heart and Vascular Institute, Sacramento, CA, State Island Heart and North Shore-LIJ Health System, Staten Island, NY, Monmouth Cardiology Associates, Freehold, NJ, Medtronic, Inc, Memphis, MN, Staten Island University Hospital, Staten Island, NY, Florida Heart Rhythm Specialists, PLLC, Plantation, FL

2:15 p.m. **AB10-04**: Impact of Acute Atrial Fibrillation Termination and Prolongation of AF Cycle Length on the Outcome of Ablation of Persistent AF: A sub-study of the STAR AF II trial
Simon Kochhäuser, MD, Chunyong Jiang, MD, Timothy R. Betts, MD, Jian Chen, MD, Isabel V. Deisenhofer, MD, Roberto Mantovan, MD, Laurent Maclie, MD, Carlos A. Morillo, MD, FFRS, Wilhelm Haverkamp, MD, Ruksheen Weerasooriya, MD, Jean-Paul Albenque, MD, Stefano Nardi, MD, PhD, Endrij Menardi, MD, Paul G. Novak, MD, Prashanthan Sanders, MD, PhD and Atul Verma, MD, FFRS, University Hospital Münster, Münster, Germany, Zhejiang Shaoyifu Hospital, Hangzhou, China, Oxford University Hospitals NHS Trust, Oxford, Oxford United Kingdom, Haakeland Univ Hospital, Bergen, Norway, Deutsches Herzzentrum Muenchen, Munich, Germany, Ospedale Regionale, Treviso, Italy, Montreal Heart Institute, Montreal, QC, Canada, Hamilton Health Sciences - McMaster University, Hamilton, ON, Canada, Medizin Schwerpunkt Kardiologie, Berlin, Germany, Royal Perth Hospital, Perth, Australia, Clinique Pasteur, Toulouse, France, Presidio Ospedaliero Pineta Grande, Castel Voltumo (CE), Italy, Azienda Ospedaliera S. Croce e Carle, Cuneo, Italy, University of Adelaide and Royal Adelaide Hospital, Adelaide, Australia, Southlake Regional Health Centre, Newmarket, ON, Canada

2:30 p.m. **AB10-05**: Real-Time Electrophysiological Mapping of Consistent Wave Front Propagation during Atrial Fibrillation and Atrial Tachycardia
Carlo Pappone, MD, PhD, Massimo Saviano, MD, Giuseppe Cicone, MD, Wenwen Li, PhD, Erhan Erdemir, PhD, Amarld Cuko, MD, Luigi Giannelli, MD, Manuel Conti, MD, Gabriele Vicedomini, MD and Vincenzo Santinelli, MD, IRCCS Policlinico San
Donato, San Donato Milanese, Italy, St. Jude Medical, Sunnyvale, CA, St. Jude Medical, St Paul, MN

2:45 p.m. **AB10-06:** Electrogram Characteristics of Termination Sites in Persistent Atrial Fibrillation
Viktor Markstein, BSc, Heiko Lehmann, MD, Youssef El-Omri, MD, Jeremie Sorrel, MA, Jürgen Allgeier, MD, Reinhold Weber, MD, Thomas Arentz, MD and Amir Jadi, MD. Department of Cardiology and Angiology II, Bad Krozingen, Germany, Universitäts-Herzzentrum Freiburg-Bad Krozingen, Bad Krozingen, Germany, Herzzentrum Bad Krozingen, Bad Krozingen, Germany

Session Description: This session will review novel mapping and ablation techniques of atrial fibrillation and left atrial tachyarrhythmia's. Scar mapping and the pathophysiologic basis of post atrial fibrillation ablation left atrial tachyarrhythm

Chairs: Larry A. Chinitz, MD, New York University Langone Medical Center, New York, NY
Brian G. Crandall, MD, Intermountain Medical Center, Salt Lake City, UT

1:30 p.m. **AB11-01:** Combination of left atrial appendage closure with catheter ablation for the treatment of atrial fibrillation
Kai Tang, MD, Shanghai Tenth People's Hospital, Tongji University School of Medicine, Shanghai, China

1:45 p.m. **AB11-02:** Multifunction fibre optic catheter for Atrial fibrillation treatment
Pierre Jais, MD, Valentina Tiperlini, PhD, Ruksen Weerasooriya, MBBS, Peter Pratten, MBBS and Kamal Alam, PhD. Hôpital Haut-Lévêque, Bordeaux, France, Edith Cowan University, Perth, Australia

2 p.m. **AB11-03:** The efficacy of multipolar basket catheters in mapping the entire left atrium in human persistent atrial fibrillation
Bhupesh Pathik, MBBS, FRACP, Tomes E. Walters, MBBS, Pawel Kuklik, PhD, Zichao Zhao, PhD, Andrew Madry, PhD, Gwilym M. Morris, MBChB, PhD, Sandeep Prabhu, MBBS, FRACP, Chrislan J. Nalliah, MBBS, FRACP, Jonathan Lipton, MD, PhD, Joseph B. Morton, MBBS, PhD, Paul Sparks, MBBS, PhD, Peter Kistler, MBBS, PhD, Jonathan M. Kalman, MBBS, PhD and Geoffrey Lee, MBBS, PhD. Royal Melbourne Hospital, Parkville, Australia, The Royal Melbourne Hospital, Parkville, Australia, Department of Cardiology, Maastricht University Medical Center, Maastricht, Netherlands, Auckland Bioengineering Institute, The University of Auckland, Auckland, New Zealand, Royal Melbourne Hospital, Melbourne, Australia, Royal Melbourne Hospital, Parkville, VIC, Australia, Alfred and Baker IDI, Prahan, Australia, The Royal Melbourne Hospital, Melbourne, Australia

2:15 p.m. **AB11-04:** Overdrive-pacing Mapping - A Novel Technique for Mapping Scar Associated Localized Atrial Tachycardia
Jingzhou Jiang, MD, Paul H. Hess, MD, Jiang Cui, MD, Christopher P. Ingelmo, MD, Morgan Green, RN, Mark A. Coppess, MD, Eric E. Johnson, MD, Jeffrey E. Kerlan, MD and David Z. Lan, MD. The Stern Cardiovascular Center, Memphis, TN

2:30 p.m. **AB11-05:** Complex Fractionated Electrogram ablation may lead to small loop Atrial Tachycardia circuits identified with Ripple Mapping
Vishal Luther, MRCP, Michael Koa-Wing, MBBS, PhD, Shahnaz Jamil-Copley, MBBS, PhD, Phang Boon Lim, MBBS, PhD, Norman A. Qureshi, MRCP, Fu Siong Ng, MD, PhD, Sajad A. Hayat, MBChB, Zachary I. Whinnett, MBBS, D. Wyn Davies, MD, FHRS, Nicholas S. Peters, MBBS, PhD, Prapa Kanagaratnam, MD, PhD and Nick Linton, MBBS, PhD. Imperial College Healthcare, London, United Kingdom

2:45 p.m. Abstract Commentator
Luigi Di Biase, MD, PhD, FHRS, FACC. Albert Einstein College of Medicine at Montefiore Hospital, New York, NY

Session Description: This session highlights the most contemporary research in the field of substrate-directed ablation of ventricular tachycardia, in patients with structural and normal-heart ventricular arrhythmia.

Chairs: Christopher R. Cole, MD, FHRS, Colorado Springs Cardiologists, Colorado Springs, CO
Rohit Malhotra, MD, University of Virginia, Charlottesville, VA

1:30 p.m. **AB12-01:** Simultaneous Amplitude Frequency Electrogram Transformation (SAFE-T) Mapping to Identify Ventricular Tachycardia Arrhythmogenic Potentials in Sinus Rhythm
Yuan Hung, MD, Chin-Yu Lin, MD, John Silberbauer, MBBS, Yenn-Jiang Lin, MD, Men-Tzung Lo, PhD, Chen Lin, PhD, Hsiang-Chih Chang, PhD, Shih-Lin Chang, MD, Li-Wei Lo, MD, Yu-Feng Hu, MD, Fa-Po Chung, MD, Jo-Nan Liao, MD, Chun-Wang Chiou, MD, Shih-Ann Chen, MD and Paolo Della Bella, MD, Tri-service General Hospital, Taipei City, Taiwan, Taipei Veterans General Hospital, Taipei City, Taiwan, Eastbourne General, Eastbourne, United Kingdom, Taipei Veterans General Hospital, Taipei, Taiwan, Research Center for Adaptive Data Analysis, National Central University, Chung-Li, Taiwan, Research Center for Adaptive Data Analysis, Jhongli, Taiwan, Taipei Veteran General Hospital, Taipei, Taiwan, Taipei Veterans General Hospital/National Yang-Ming University, Taipei, Taiwan, Ospedale San Raffaele, Milano, Italy
THURSDAY

SESSION AB14. CORRELATION OF ANATOMY AND MAPPING DATA FOR VENTRICULAR ARRHhythmia Management

Clinical Electrophysiology
Room 3014, Moscone West
Abstract F
CME/CE Hours: 1.5

Session Description: This is an abstract session focusing on the understanding of the underlying anatomy and the resulting arrhythmia substrates for ventricular tachycardia.

Chairs: Tristram D. Bahnsen, MD, FHRS. Duke University Medical Center, Durham, NC Michael E. Field, MD, FHRS. University of Wisconsin, Madison, WI

1:30 p.m. AB14-01: Anatomical Pitfall in 3D Mapping, Right Ventricular Recess (Unexpected Structure in Free Wall of Right Ventricular Outflow Tract) Osamu Igawa, PhD, Hiroshi Kusuma, MD, PhD, Hirotsugu Atarashi, MD and Wataru Shimizu, MD, PhD. Nippon Medical School TamaNagayama Hospital, Tama, Japan, Division of Cardiology Department of Internal Medicine Nippon Medical School, Tokyo, Japan, Sanin Rosai Hospital, Yonago, Japan, Nippon Medical School/Int Med, Tokyo, Japan, Nippon Medical School, Tokyo, Japan

1:45 p.m. AB14-02: Voltage threshold for high density mapping catheter with short interspaced small electrodes Frederic Sacher, MD, PhD, Josselein Duchateau, MD, Stefano Capellino, Eng., Benjamin Berte, MD, PhD, Nicolas Derval, MD, Arnaud Denis, MD, Sana Amraoui, MD, Arnaud Chaumeil, MD, Gregoire Massoulie, MD, Meleze Hocini, MD, Michel Haissaguerre, MD and Pierre Jais, MD, LIRYC Institute / Hôpital Cardiologique Haut-Levêque, Bordeaux, France, Boston Scientific, Bordeaux, France, Hopital Cardiologique du Haut Leveque, Bordeaux, France, Hopital du Haut Levêque, Pessac, France, CHU Bordeaux, Bordeaux, France, Hopital Haut Levêque, Pessac, France, Hôpital Haut-Lévêque, Bordeaux, France, LIRYC Institute, University Hospital of Haut Lévêque, Bordeaux-Pessac, France, Hopital Cardiologique Haut Leveque - Université Bordeaux, Pessac, France, CHU Bordeaux - Bordeaux University, Bordeaux, France

2:30 p.m. AB14-03: Defining a new cut-off value for unipolar voltage in the right ventricle to detect epicardial scar using CT derived fat integration Jeroen Venlet, MD, Gijsbert FL. Kapel, MD, Sebastiaan R. Piers, MD, Marta de Riva Silva, MD, Rob Van der Geest, Eng. and Katja Zeppenfeld, MD, PhD. Leiden University Medical Center, Leiden, Netherlands

2:45 p.m. AB14-04: Myocardial Wall Thinning on MDCT Relates to the Transmural Distribution of Abnormal Ventricular Activities during Sinus Rhythm in Patients with Scar-related Ventricular Tachycardia of Various Etiologies Seigo Yamashita, MD, PhD, Frédéric Sacher, MD, PhD, Darren Hooks, MD, PhD, Benjamin Berte, MD, PhD, Jean-Marc Sellal, MD, Antonio Frontera, MD, Nora Al-Jefairi, MD, Yuki Komatsu, MD, Sana Amraoui, MD, Arnaud Denis, MD, Nicolas Derval, MD, François Laurent, MD, Michel Montaudon, MD, PhD, Méline Hocini, MD, Michel Haissaguerre, MD, Pierre Jais, MD, PhD and Hubert Cochet, MD, PhD. Hôpital Cardiologique du Haut Lévêque, Pessac, France, Univ of Auckland School of Medicine, Auckland, New Zealand

2:30 p.m. AB14-05: Fat deposition within myocardial infarction: clinical and electrophysiological correlates in patients with post-infarction ventricular tachycardia Ghassen Cheniti, MD, Elvis Tejeira-Fernandez, MD, Masateru Takigawa, MD, Frederic Sacher, MD, Arnaud Chaumeil, MD, Antonio Frontera, MD, Seigo Yamashita, MD, Jean-Marc Sellal, MD, Nathaniel Thomson, MD, Nora Eljefairi, MD, Jean-Yves Wielandts, MD, Claudia Camaioni, MD, Sana Amraoui, MD, Arnaud Denis, MD, Gregoire Massoulie, MD, Nicolas Derval, MD, Meleze Hocini, MD, Michel Haissaguerre, MD, Pierre Jais, MD and Hubert Cochet, MD. Hopital Cardiologique du Haut Levêque, Pessac, France, Hopital du Haut Levêque, Pessac, France, CHU Bordeaux, Bordeaux, France, Hopital Cardiologique du Haut Levêque, Pessac, France, CHU Bordeaux - Bordeaux University, Bordeaux, France

Program as of April 20, 2016 Page 27 of 27
Session Description: To understand the role of novel risk factors such as obesity, sleep apnoea and excess alcohol intake. To develop insights into the role of wavelength, rotors and foci in the mechanism of atrial fibrillation.

Chairs: Tomos E. Walters, MBBS, PhD. The Royal Melbourne Hospital and The University of Melbourne, Melbourne, Australia
Sander Verheule, PhD. Maastricht University, Maastricht, Netherlands

1:30 p.m. **AB15-01**: The Risk of Atrial Fibrillation After Bariatric Surgery in Patients with Morbid Obesity with and without Obstructive Sleep Apnea
Ahmed Dalmar, MD, Maharaj Singh, PhD, Zoe Heis, No Degree, Maleek Mirza, MD, Indrajit Modhuri, MD, Atul Bhatia, MD, M Eyman Mortada, MD, Imran Niazi, MD, FHRS, Vikram Nangia, MD, Thomas Y Chua, MD, A Jamil Tajik, MD, Jasbir S. Sra, MD, FHRS and Arshad Jahangir, MD. Aurora Research Institute, Sheikh Khalifa bin Hamad Al Thaniki Center for Integrative Research on Cardiovascular Aging, Milwaukee, WI, Aurora Sinai/Aurora St. Luke's Medical Centers, Milwaukee, WI, Sheikh Khalifa bin Hamad Al Thaniki Center for Integrative Research on Cardiovascular Aging, Milwaukee, WI, Sheikh Khalifa bin Hamad Al Thaniki Center for Integrative Research on Cardiovascular Aging, Milwaukee, WI, Aurora Cardiovascular Svcs, Aurora Sinai/St. Luke's Med Ctrs -University Wisconsin Sch Med & Public Health, Milwaukee, WI, Aurora Sinai/St. Luke's Medical Centers, University of Wisconsin Medical School-MCC, Milwaukee, WI, Aurora Cardiovascular Services, Aurora Sinai/Aurora St. Luke's Medical Centers, Univ of Wisconsin School of Medicine and Public Health, Milwaukee, WI, Aurora Sinai Medical Center, Wisconsin Bariatrics, S.C., Milwaukee, WI

1:45 p.m. **AB15-02**: Highest dominant frequency and rotor positions are stable markers for atrial driver location in non-invasive mapping of atrial fibrillation: a computational study
Felipe Atienza, MD, PhD, Miguel Rodrigo, MS, Andreu M. Climent, PhD, Alejandro Liberós, MS, Francisco Fernández-Avilés, MD, PhD, Omer Berenfeld, PhD and María S. Guillem, PhD. Hospital General Universitario Gregorio Marañón, Madrid, Spain, Madrid, Spain, Universitat Politècnica de Valencia, Valencia, Spain, Hospital General Universitario Gregorio Marañón, Madrid, Spain, University of Michigan, Ann Arbor, MI, Universidade Politécnica de Valencia, Valencia, Spain, University of Washington, Seattle, WA

2 p.m. **AB15-03**: Relationship Between Focal Sites Maintaining Persistent Atrial Fibrillation in Patients - Studies Using High Density (510-512 Electrodes) Bi-Atrial Epicardial Mapping
Seungyup Lee, PhD, Albert L. Waldo, MD, FHRS, Ceelen Krhetsman, BS and Jayakumar Sahadevan, MD. Case Western Reserve University - University Hospitals Case Medical Center, Cleveland, OH, Case Western Reserve Univ, Univ Hospital of Cleveland, Beachwood, OH
AB16-02: The Association between a Prolonged PR Interval and Outcomes of Cardiac Resynchronization Therapy: a Report from the National Cardiovascular Data Registry
Daniel J. Friedman, MD, Haikun Bao, PhD, Erica S. Spatz, MD, Thotha Curtis, MD, James P. Daubert, MD, FHRS and Sana M. Al-Khatib, MD, FHRS, Duke University, Durham, NC, Yale University, New Haven, NC, Yale University, New Haven, CT, Duke University Medical Center, Durham, NC, Duke Clinical Research Institute, Durham, NC

AB16-03: Impact of baseline Right Ventricle pacing or Wide ORS on Clinical and Arrhythmic Outcomes in Continuous Flow Left Ventricle Assist Device Recipients
Rakesh Gopinathannair, MD, FHRS, Dmitry Famlitsiev, MD, PhD, Muhammad Waqas, MD, Jaimin R. Trivedi, MD, MPH, Henri Roukouz, MD, Adarsh Bhan, MD, Geetha Bhat, MD, Jennifer Cowger, MD, Emma J. Birks, MD, Mark S. Slaughter, MD and Mustafa M. Ahmed, MD, University of Louisville, Division of Cardiovascular Medicine, Louisville 40202, KY, St. Vincent Hospital, Indianapolis, IN, University of Minnesota, Minneapolis, MN, Advocate Christ Medical Center, Oak Lawn, IL, University of Louisville, Division of Cardiovascular Medicine, KY, University of Florida, Division of Cardiovascular Medicine, Gainesville, FL

AB16-04: Do all IVCD ECG patterns respond equally to CRT?
Avi Sabbag, MD, Roy Beinart, MD, Igor Lipchencu, MD, David Barlev, MD, Osnav Gurevich, MD, Stefan Bogdan, MD, Rafael Kuperstein, MD, Michal S. Feinberg, PhD, Michael Eldar, PhD, Ilan Goldenberg, MD, Michael Gilkinson, MD and Eyal Nof, MD, Sheba Medical Center, Ramat Gan, Israel, Heart Center - Sheba Hospital, Ramat Gan, Israel, Sheba Medical Center, Tel Hashomer, Israel

AB16-05: Cardiac Resynchronization Decreases Abnormal Cardiac Sodium Channel mRNA Splicing
Ning Jiang, MD, Anyu Zhou, MD, PhD, Hatliz Imam, MD, Guangbin Shi, MD, MSc, Bahaa Kaseer, MD, Vincent Siu, MD, MSc, Biru Philips, MD, Antony Chu, MD, David Donaldson, MD, Michael Kim, MD, Malcolm M. Kirk, MD and Samuel C. Dudley, MD, PhD, Rhode Island Hospital, Providence, RI, Brown University, Providence, RI, The Miriam Hospital, Providence, RI, University of Toronto, Toronto, ON, Canada, Brown University - Section of Cardiology, Providence, RI

AB16-06: Relation between ECG parameters and LV electrical delay in patients with left ventricular dysfunction
Gianni Pastore, MD, Lina Marcantoni, MD, Massimiliano Maines, MD, Francesco Zanon, MD, FHRS, Enrico Baracca, MD, Claudio Picariello, MD, Daniela Lanza, MD and Loris Roncon, MD, S Maria Della Misericordia Hospital, Rovigo, Italy, S. Maria del Carmine Hospital - Rovereto (TN) Italy, Rovereto, Italy

Session AB16: CRT: EMERGING METHODS AND TECHNOLOGY
Heart Failure - Resynchronization Therapy: Science, Techniques, and Outcomes
Room 132, Moscone North 1:30 - 3 p.m. F PM
Abstract
CME/CE Hours: 1.5

Session Description: This session will allow attendees to hear about new advances in CRT delivery and alternative methods for device based HF management.

Chairs: John R. Windle, MD, FHRS, University of Nebraska Medical Center, Omaha, NE
Frank Cuoco, Jr., MD, FHRS, Medical University of South Carolina, Charleston, SC

AB17-01: Wireless LV Endocardial Stimulation for Cardiac Resynchronization: Long-term (12 month) Experience of Clinical Efficacy and Clinical Events from Two Centers
Petr Neuzil, MD, PhD, Vivek Y. Reddy, MD, Petr Sedyi, MD, Tomas Mraz, MD, Lucie Sedyi, MD, Filip Malek, MD, Jan Petru, MD, Jaroslav Simon, MD, Stimulacion Electromecanica, Ceske Budejovice, Czech Republic, Mount Sinai Hospital, New York, NY, Aalborg University Hospital, Aalborg, Denmark

AB17-02: Leadless LV endocardial stimulation for CRT: Final Outcomes of the Safety and Performance of Electrodes implanted in the Left Ventricle (SELECT-LV) Study
Vivek Y. Reddy, MD, Petr Neuzil, MD, PhD, Sam Riahi, MD, PhD, Peter Søgaard, MD, PhD, Christian Butter, MD, Thomas Schau, MD, Peter Paul Delnoy, MD, PhD, Lieselotte Van Erven, MD, Martin J. Schalji, MD, PhD and Lucas V. A. Boersma, MD, PhD, Mount Sinai School of Medicine, New York, NY, Na Homolce Hospital, Prague 5, Czech Republic, Aalborg University Hospital, Aalborg, Denmark, Herzcentrum Brandenburg, Bernau/Berlin, Germany, Isala Klinieken, Zwoll, Netherlands, Leiden Univ Medical Center, Leiden, Netherlands, Leiden University Medical Center, Leiden, Netherlands, St. Antonius Ziekenhuis - Cardiology Dept, Nieuwegein, Netherlands

AB17-03: In vivo non-invasive ultrasound-based cardiac pacing in pigs
Philippe Ritter, MD, Pierre Bour, MS, Fanny Vaillant, PhD, Sana Amraoui, MD, Remi Dubois, PhD, Fabrice Marquet, PhD, Michel Haissaguerre, MD, Meleze Hocini, MD, Olivier Bernus, PhD and Bruno Quesson, PhD, University Hospital of Bordeaux - Hospital Du Haut Lévèque, Pessac, France, IJH LIRYC, Bordeaux, France, Hospital Haut Leveque, Pessac, France, Hospital Cardiologique Haut Leveque - Université Bordeaux, Pessac, France, LIRYC Institute, University Hospital of Haut Lévèque, Bordeaux-Pessac, France, L'Institut de Rythmologie et Modélisation Cardiaque, Bordeaux, France
2:15 p.m.  **AB17-04**: Permanent His Bundle Pacing is an Excellent Alternative to Cardiac Resynchronization Therapy
Pugazhendhi Vijayaraman, MD, FHRs, Gopi Dandamudi, MD, FHRs, Parikhshi S. Sharma, MD, MPH, Bengt Heneg, MD and Kenneth A. Ellenbogen, MD, FHRs. Geisinger Heart Institute, Wilkes-Barre, PA, Indiana University, Indianapolis, IN, Virginia Commonwealth University, Richmond, VA, Univ of South Florida College of Medicine, Tampa, FL

**Session Description:**
The session will present strategies to optimize CRT programming. Provide insights into the mechanism of CRT outcomes as well as management in patients with atrial fibrillation receiving CRT.

**Chair:**
Ali Oto, MD, FHRs, Hacettepe University School of Medicine, Ankara, Turkey

1:30 p.m.  **AB18-01**: Left Ventricular Electrical Delay (QLV) and Reduction in Mitral Regurgitation following Cardiac Resynchronization Therapy: Mechanistic insights from the SMART-AV Substudy
Neal A. Chatterjee, MD, Michael R. Gold, MD, Alan D. Waggoner, MS, Kenneth M. Stein, MD, FHRs, Yinghong Yu, MS, Timothy Meyer, PhD, Nicholas Wold, MS, Kenneth A. Ellenbogen, MD, FHRs and Jagmeet P. Singh, MD, PHD, FHRs. Massachusetts General Hospital, Boston, MA, Medical University of South Carolina, Charleston, SC, Washington University School of Medicine, St. Louis, MO, Boston Scientific, St. Paul, MN, Medical College of Virginia, Richmond, VA

1:45 p.m.  **AB18-02**: Cardiac resynchronization therapy combined with coronary artery bypass grafting in ischemic heart failure patients: long-term results of the rescue study
Alexander Romanov, MD, PhD, FHRS, Kinga Goscinska-Bis, MD, Jaroslaw Bis, MD, Alexander Cherniavsky, MD, PhD, Darya Prokhorova, MD, Yana Syrtceva, MD, Vitaly Shabanov, MD, Vitaliy Shabanov, MD, Dmitry Ponomarev, MD, Sergey Alsov, MD, Alexander Karaskov, MD, PhD, Marek Deja, MD, PhD, Michal Krejca, MD, PhD and Evgeniy Pokushalov, MD, PhD. State Research Institute of Circulation Pathology, Novosibirsk, Russian Federation, Medical University of Silesia, Katowice, Poland

2:15 p.m.  **AB18-04**: Echocardiography Vs Non-invasive Hemodynamic Optimization of AV and VV delay for Cardiac Resynchronization Therapy: The Prospective, multi-centre, randomized, cross-over, non-inferiority BRAVO study.British Randomized Controlled Trial of AV and VV Optimiz
Zachary I. Whinnett, MBBS, Daniel Keene, MRCP, Prapa Kanagaratnam, MD, MRCP, Mark Tannar, MD, Edward Duncan, PhD, MRCP, Martin Lowe, PhD, FRCP, Mark Dayer, PhD, FRCP, Philip Moore, PhD, MRCP, Francisco Leyva, MD, FRCP, Mike Frenneaux, MD, FRCP, Mark Mason, FRCP, Alun D. Hughes, MMBS, PhD and Darrel Francis, MD, FRCP, Imperial College London, London, United Kingdom, Western Sussex Hospitals NHS Foundation Trust, West Sussex, United Kingdom, University Hospitals Bristol NHS Foundation Trust, Bristol, United Kingdom, Barts and The London NHS Trust, London, United Kingdom, Taunton and Somerset NHS Foundation Trust, London, United Kingdom, West Hertfordshire Hospitals NHS Trust, Watford, United Kingdom, University Hospital Birmingham, Birmingham, United Kingdom, University of Aberdeen, Aberdeen, United Kingdom, Royal Brompton and Harefield NHS Foundation Trust, London, United Kingdom

**Session AB18. CRT INSIGHTS FROM RECENT CLINICAL TRIALS**
Heart Failure - Heart Failure: Etiology, Diagnosis, and Management Room 134, Moscone North

**Abstract Plus**
CME/CE Hours: 1.5

**Session Description:**
The session will present strategies to optimize CRT programming. Provide insights into the mechanism of CRT response and present outcomes as well as management in patients with atrial fibrillation receiving CRT.

**Chair:**
Ali Oto, MD, FHRs, Hacettepe University School of Medicine, Ankara, Turkey

2:15 p.m.  **AB18-05**: Outcomes of Cardiac Resynchronization Therapy in Patients with Intermittent Atrial Arrhythmias in the COMPANION Trial

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Session AB19: SPORTS, DEVICES, AND ARRHYTHMIAS: MANAGING CHILDREN IN THE 21ST CENTURY
Pediatrics and Adult Congenital Heart Disease
Room 102, Moscone South 1:30 - 3 p.m. Abstract Plus F PM
CME/CE Hours: 1.5
Session Description: This session deals with a variety of abstracts concerning the entire age spectrum of patients cared for by the pediatric electrophysiology team from the newborn to the adult with CHD. The science in these abstracts provides up

Chairs: Andrew L. Papez, MD, Arizona Pediatric Cardiology Consultants, Phoenix, AZ
Ronald J. Kanter, MD, FFRS, CEPS, Miami Childrens Hospital, Miami, FL

1:30 p.m. AB19-01: Safety of Sports for Young Patients with ICDs: Long-Term Results of the Multinational ICD Sports Registry
Elizabeth V. Saarel, MD, FFRS, Ian H. Law, MD, FFRS, Charles I. Berul, MD, FFRS, Michael J. Ackerman, MD, PhD, Ronald J. Kanter, MD, FFRS, Shubhayan Sanatani, MD, Mitchell Cohen, MD, FFRS, Stuart Berger, MD, FFRS, Peter S. Fischbach, MD, David Burton, MD, David S. Cannom, MD, FFRS, Brian Olishansky, MD, Hein Heidbuchel, MD, PhD, Christine E. Lawless, MD, Hugh Calkins, MD, N. A. Mark Estes, MD, Mark S. Link, MD, FFRS, Barry J. Maron, MD, Frank I. Marcus, MD, Bruce L. Wilkoff, MD, FFRS, Douglas P. Zipes, MD, FFRS, Alan Cheng, MD, FFRS, Melvin M. Scheinman, MD, FFRS and Rachel Lampert, MD, FFRS.

2:45 p.m. Abstract Commentator
David S. Cannom, MD, FFRS. Good Samaritan Hospital, Los Angeles, CA

AB19-02: Use of Dofetilide in Adult Patients with Atrial Arrhythmias and Congenital Heart Disease: A PACES Multi Institutional Collaborative Study
Iqbal El-Assaad, MD, Sadeer G. Al-Kindi, MD, JoEilyn M. Abraham, MD, Shubhayan Sanatani, MD, David J. Bradley, MD, Colby R. Halsey, MD, Ian H. Law, MD, FFRS and Peter F. Aziz, MD, Cleveland Foundation, Cleveland, OH, University Hospitals Case Medical Center, Cleveland, OH, Minneapolis Heart Institute, Minneapolis, MN, Children's Heart Centre, Vancouver, BC, Canada, University of Michigan, Ann Arbor, MI, Washington University School of Medicine, St. Louis, MO, University of Iowa Hospital and Clinics, Iowa City, IA
1:45 p.m.

2 p.m. AB19-03: Cardiac Resynchronization Therapy in Patients with Fontan Physiology and Heart Block
Edward O’Leary, MD, Francis Fynn-Thompson, MD, Vassilios J. Bezerides, MD, PhD, Dominic J. Abrams, MD, Mark E. Alexander, MD, John K. Triedman, MD, Edward P. Walsh, MD and Doug Y. Mah, MD, Boston Children's Hospital, Boston, MA
AB19-04: Patient characteristics and risk of recurrence during treatment and following anti-arrhythmic ward – can we wean infants with SVT earlier than one year? Judson A. Moore, MD, Naomi J. Kertesz, MD, Danyelle L. Evans, BA, Jeffrey J. Kim, MD, Santiago Valdez, MD, Caridad M. delaUz, MD, Tia T. Raymond, MD and Christina Y. Miyake, MD, Texas Children's Hospital, Houston, TX, Nationwide Children's, Columbus, OH, Baylor College of Medicine, Houston, TX, Baylor College of Medicine, Houston, TX, Medical City Children's Hospital, Dallas, TX
2:15 p.m.

2:30 p.m. AB19-05: Risk of Death from Cardiac Arrest in Pediatric Heart Transplant Recipients: Query of the UNOS Database
Robert W. Loar, MD, Susan W. Denfield, MD, Hari Tunuguntla, MD, Antonio G. Cabrera, MD, Jack Price, MD, Jeffrey J. Kim, MD, William J. Dreyer, MD and Aamir Jeewa, MD. Texas Children's Hospital/Baylor College of Medicine, Houston, TX, Texas Children's Hospital, Houston, TX
2:30 p.m.

2:45 p.m. Abstract Commentator
J. Philip Saul, MD, FFRS. The Ohio State University, Columbus, OH

Session AB20: PROVOCATIVE ICD CASES: INNOVATIVE BAILOUT OPTIONS FOR THERAPEUTIC DILEMMAS
Special Session
Main Stage - Level 3, Moscone West 1:30 - 3 p.m. Abstract F
CME/CE Hours: 1.5
Session Description: This session will allow participants to appreciate and understand new therapeutic options for dealing with difficult ICD management issues.

Chairs: Richard I. Fogel, MD, FFRS, CCDS. St. Vincent Medical Group, Indianapolis, IN

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THURSDAY

1:30 p.m. AB20-01: Real-time integration of cardiac MRI to target LV lead implantation in a patient with ischemic cardiomyopathy, high scar burden and a previously failed implant
Jonathan M. Behar, MRCP, Peter Mountney, PhD, Antonis Antoniades, MBBS, Daniel Toth, MSc, Sabrina Reiml, BSc, Maria Panayiotou, PhD, Tom Jackson, MRCP, Simon Claridge, MRCP, Bradley Porter, MRCP, Mark O'Neill, DPhil, MD, FHRS, Alexander Brost, PhD, Kaval Rhode, PhD, Reza Razavi, MD, FRCP and Christopher Aldo Rinaldi, MD, FHRS. Imaging Sciences, Kings College London & Guy’s and St Thomas’ NHS Foundation Trust, London, United Kingdom, Siemens Healthcare, London, United Kingdom

1:45 p.m. AB20-02: Failed Maximal Defibrillation Threshold Testing in the Subcutaneous Implantable Cardiodefibrillator
Catherine Ellis, MSN, NP, RN, Emilio Garcia, MD, Joshua Levine, MD, Robert Kim, MD, Steve S. Hsu, MD, FHRS and John N. Catanzaro, MD. University of Florida-Jacksonville, Jacksonville, FL, Univ of Florida Health Science Center, Jacksonville, FL, University of Florida - Jacksonville, Jacksonville, FL

2:00 p.m. AB20-03: Death of a Patient with VT below the Programmed ICD Detection Rate
Tonye Teme, MD and Peter Santucci, MD. Heart & Vascular Institute, Loyola University Medical Center, Maywood, IL

2:15 p.m. AB20-04: Too large a lead vegetation? AngioVac it!
Sushruth Edla, MD, Rami Zein, DO, Eesha Maiodna, MD and Sohail A. Hassan, MD. St John Hospital and Medical Center, Detroit, MI, Eastside Cardiovascular Medicine, PC - Electrophysiology, Canton, MI

2:30 p.m. AB20-05: P-wave amplitude variation leading to inappropriate S-ICD therapy-Another challenge in device management
Syeda A. Batul, MBBS, Felix Yang, MD, FHRS and Yisacher J. Greenberg, MD, FHRS. Maimonides Medical Center, Brooklyn, NY

2:45 p.m. AB20-06: Inappropriate Shock Delivery from Subcutaneous Implantable Cardiodefibrillator Systems Due to Early Reduction in Ventricular Electrogram Amplitude
Danesh Modi, DO, Hardik Mangrolia, MD, Jay Overcash, BS, Jeffrey Arkles, MD, Chethan Gangireddy, MD, Nina Mirachi, PA, Rutuke Patel, PA and Joshua M. Cooper, MD, FHRS. Temple University Hospital, Philadelphia, PA, Temple University Health System, Philadelphia, PA

Session SP34. INAUGURAL MEETING OF THE ADVANCED IMAGING COMMUNITY OF PRACTICE
Special Session
Room 3022, Moscone West 1:30 - 3 p.m.
Special Session
Session Description: Join Nassir Marrouche, MD, FHRS and Gerhard Hindricks, MD and other leaders in the field, as they discuss the launch of the Advanced Imaging Community of Practice. The mission of this Community is to focus on promoting collaboration among imaging and electrophysiology professionals.
Chairs: Nassir F. Marrouche, MD, FHRS. University of Utah, Salt Lake City, UT Gerhard Hindricks, MD, PhD. Heart Center - University of Leipzig, Leipzig, Germany
1:30 p.m. Role of CT and Nuclear Imaging in EP
Timm-Michael Dickfeld, MD, PhD. University of Maryland, Baltimore, MD
2 p.m. Real-Time MRI in the EP Lab
Saman Nazarian, MD, PhD, FHRS. Johns Hopkins University, Baltimore, MD
2:15 p.m. How MRI is Changing the Treatment of Arrhythmia Today
Nazem W. Akoum, MD, MS, FHRS. University of Utah, Salt Lake City, UT
2:30 p.m. Image Processing in EP: How to Squeeze the MRI Image
Joshua Cates, PhD. University of Utah, Salt Lake City, UT
2:45 p.m. EP Lab of the Future
Pierre Jais, MD. Hôpital Haut-Lévêque, Bordeaux, France

Session SP17. YOUNG INVESTIGATOR AWARDS COMPETITION
Special Session
Room 2001, Moscone West 1:30 - 3:30 p.m.
Special Session
CME/CE Hours: 2
Session Description: To recognize outstanding young investigators for their contributions and potential in the field.
Chair: Isabelle Deschenes, PhD. MetroHealth Campus of Case Western Reserve University, Cleveland, OH
1:30 p.m. Judges
Sumeet S. Chugh, MD, FHRS. Cedars-Sinai Medical Center, Los Angeles, CA
Koonlawee Nademanee, MD, FHRS, CCDS. Pacific Rim Electrophysiology Research Institute Center, Los Angeles, CA

Kumarawamy (Nantha) Nanthakumar, MD. Toronto General Hospital, Toronto, ON, Canada

Saman Nazarian, MD, PhD, FhRs. Johns Hopkins University, Baltimore, MD

Antonis A. Armoundas, PHD. MA General Hospital - CVRC Div, Charlestown, MA

Dierk Thomas, MD, FHRs. Heidelberg University, Heidelberg, Germany

1:30 p.m. **SP17 - 01: A Foray into Personalized Medicine: Rescue of Function in Calmodulinopathy iPSC-Derived Cardiomyocytes** Worrowan B. Limpitkul, BS. Pattraranee Limpong, PhD, Ivy E. Dick, PhD, Myoug Hyun Choi, BS, Wanjun Yang, MS, Jennifer Babich, BS, Deborah DiSilvestre, MS, David Tester, BS, Michael J. Ackerman, MD, PhD, Gordon F. Tomaselli, MD, FHRs and David T. Yue, MD, PhD. Johns Hopkins University School of Medicine, Baltimore, MD, Johns Hopkins University School of Medicine, Baltimore, MD, Mayo Clinic, Rochester, MN, Johns Hopkins University - Div. of Cardiology, Baltimore, MD

1:50 p.m. **SP17 - 02: Residual Heritability of Electromechanical Traits in a SCN5A Founder Population with Non- Nocturnal Ventricular Tachyarrhythmia and Sudden Cardiac Death** Rachel M.A. ter Bekke, MD, Aaron Isaacs, PhD, Andrei Barysenka, MSc, Apollonia J.T.M. Helderman-van den Enden, MD, PhD, Alfons S.M. Patelski, No Degree, Marije Hoos, PhD, Arthur van den Wijngaard, PhD, Monika Stoll, PhD and Paul G.A. Volders, MD, PhD. Maastricht University Medical Centre, Maastricht, Netherlands, University of Munster, Munster, Germany, LGOG, Maastricht, Netherlands

2:10 p.m. **SP17 - 03: A Novel Heterozygous Mutation in Cardiac Calsequestrin causes Catecholaminergic Polymorphic Ventricular Tachycardia** Belinda Gray, MBBS, FRACP, Richard Bagnall, PhD, Lien Lam, PhD, Jodie Ingles, PhD, Andrew M. Davis, MBBS, FHRs, Christian Turner, MBBS, Eric Haan, MBBS, FRACP, Pei-Chi Yang, PhD, Colleen Clancy, PhD, Raymond W. Sy, MBBS, PhD and Christopher Semsarian, PhD, FHRs. Centenary Institute, Newtown, Australia, Royal Children's Hospital, Melbourne, Australia, Children's Hospital at Westmead, Westmead, Australia, South Australian Clinical Genetics Service, Adelaide, Australia, University of California Davis, Davis, CA, University of California Davis, Davis, CA, Royal Prince Alfred Hospital, Camperdown, Australia

2:30 p.m. **SP17 - 04: Surveillance of heart beats and strokes using the iphone app in Japan: a preliminary report of the clinical study named "Heart & Brain" using ResearchKit** Takehiro Kimura, MD, PhD, FHRs, Seiji Takatsuki, MD, PhD, Kazuaki Nakajima, MD, Shin Kashimura, MD, Akira Kunitomi, MD, Yoshinori Katsumata, MD, PhD, Takahiko Nishiyama, MD, PhD, Nobuhiro Nishiyama, MD, PhD, Kotaro Fukumoto, MD, PhD, FHRs, Yoko Tanimoto, MD, PhD, Yoshitsugu Azawab, MD, PhD, FHRs and Keiichi Fukuda, MD, PhD. Keio University School of Medicine, Shinjuku-ku, Japan, Keio University School of Medicine, Tokyo, Japan

2:50 p.m. **SP17 - 05: Simplified criteria for the differential diagnosis of wide QRS using initial electrical activation in V1 and V2** Imane El Hajajj, MD, Giuliano Becker, MD, Teresa Kus, MD, PhD, Alain Vinet, PhD, Artur Berkovitz, MD and Marcio Sturmer, MD. Sacred-Hearth Hospital of Montreal, Montreal, QC, Canada, Institut de Génie Biomédical, Université de Montréal, Montreal, QC, Canada

3:10 p.m. **SP17 - 06: Electrophysiologic Properties in the Coronary Sinus of Sustained versus Non-Sustained Atrial Fibrillation: a Retrospective Study and Prediction Model** Nicolas Johner, MD, Mehdi Namdar, MD, PhD and Dipen C. Shah, MD, FHRs. Service de Cardiologie, Hôpitaux Universitaires de Genève, Geneva, Switzerland

**Session P003. POSTER SESSION III**

**Special Session**

**EPicenter, Hall D**

**Poster**

**F**

**Session Description:** Visit the EPicenter to experience the latest science and innovation.

**Session MP02. LEFT ATRIAL APPENDAGE: TREAT IT AS A FOE OR A FRIEND?**

**Catheter Ablation**

**EPicenter Theater 1, Hall D**

**Moderated Poster**

**F**

**Session Description:** Issues and complications related to isolation of left atrial appendage will be discussed in this session

**Chair:** Mark S. Link, MD, FHRs. Tufts Medical Center, Boston, MA

3:15 p.m. **MP02-01: Significance of leaks in patients with long-term follow-up after percutaneous left atrial appendage ligation with the LARIAT device**

Carola Gianni, MD, Yalc&305;n Gökogluan, MD, Chintan Trivedi, MD, Sanghamitra Mohanty, MD, Mahmud F. Günes, MD, Rong Bai, MD, David Burkhardt, MD, Rodney P. Horton, MD, Varuna K. Gadiyar, MD, Douglas N. Gibson, MD, Matthew J. Price, MD, Miguel Valderrabano, MD, Dhanunjaya R. Lakireddy, MD, FHRs, Andrew Krummerman, MD, Eugen C. Palma, MD, Luigi Di Biase, MD, PhD, FHRs and Andrea Natale, MD, FHRs. Texas Cardiac Arrhythmia Institute, Austin, TX, Tong Ji Hospital Tong Ji Medical College Hust, Wuhan, China, Scripps Clinic, La Jolla, CA, Methodist Hospital, Houston, TX, University of Kansas Medical Center, Kansas City, KS, Montefiore Medical Center, Bronx, NY

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3:25 p.m. **MP02-02:** Stroke and Left Atrial Appendage Thrombus Formation after Electrical Isolation of the Left Atrial Appendage as compared to Pulmonary Vein Isolation only
Andreas Rillig, MD, Roland R. Tilz, MD, Tina Lin, MD, Thomas Fink, MD, Christian H. Heeger, MD, Anita Arya, MBBS, Andreas Metzner, MD, Shibu Mathew, MD, Erik Wissner, MD, FHRS, Hisaki Makimoto, MD, Karl-Heinz Kuck, MD, FHRS and Feifan O. Ouyang, MD, Asklepios Klinik St. Georg, Hamburg, Germany

3:35 p.m. **MP02-03:** Electrical cardioversion with and without TEE and anticoagulation after LAA-occlusion
Benjamin Berte, MD, PhD, Olaf Franzén, MD, Peter Wenawezer, MD, PhD, Lam Dang, PhD, Dominik Maurer, MD, Anja Fäh-Gunz, MD, Christine Attenhofer Jost, MD, PhD and Christoph Scharf, MD, Klinik im Park, Zurich, Switzerland, Clinic im Park, Zurich, Switzerland

3:45 p.m. **MP02-04:** Higher incidence of inadvertent isolation of left atrial appendage after Vein of Marshall alcohol ablation
Akash Makkar, MD, FHRS, Jacob Hantla, CRNA, CCDS, Nikhita Sachdeva, BS, Saheba Bhatnagar, BS, Somya Bhatnagar, BS and Vijay Swarup, MD, FHRS. Arizona Heart Rhythm Center, Phoenix, AZ, University of Arizona, Tucson, AZ, Rice University, Houston, TX, Washington University in St Louis, St Louis, MO

3:55 p.m. **MP02-05:** The remodeling of left atrial appendage in patients with atrial fibrillation
Hideyuki Kishima, MD, Takanao Mine, MD, Satoshi Takahashi, MD, Kenki Ashida, MD, Masaharu Ishihara, MD and Tohru Masuyama, MD. Hyogo College of Medicine, Nishinomiya, Japan

**Session PU02. PIONEERS IN CLINICAL ELECTROPHYSIOLOGY**

**Special Session**

**EPicenter Theater 2, Hall D**

**3:15 - 4:15 p.m.**

**Pioneers Unplugged**

**Session Description:** This session will present a history on the development of cardiac electrophysiology as a specialty

**Chair:** Hasan Garan, MD, Columbia University Medical Center, New York, NY

**3:15 p.m.**

**Panelists**

David G. Benditt, MD, FHRS, CCDS. University of Minnesota, Minneapolis, MN

Masood Akhtar, MD, FHRS. Aurora Sinai Medical Center, Milwaukee, WI

**Session L12. FEEDBACK AND DISCUSSION ON FUTURE SCIENTIFIC SESSIONS PROGRAMMING**

**Special Session**

**Allied Professionals Lounge, EPicenter, Hall D**

**3:30 - 4:15 p.m.**

**EPicenter**

**Session Description:** Here's your chance to provide feedback on this year's sessions and offer up topics and speakers (yourself included) for next year.

**3:30 p.m.**

**Discussions**

**Session Description:** Come hear the experts debate this important patient management issue.

**Erica S. Zado, PA-C, FHRS. Hospital of the University of Pennsylvania, Philadelphia, PA**

**Cory M. Tschabrunn, CEPS. Beth Israel Deaconess Medical Center, Boston, MA**

**Jill L. Repoley, MSN, NP, FHRS, CCDS, CEPS. The Heart Group of Lancaster General Health/ Penn Medicine, Lancaster, PA**

**Session 037. SHOULD I REFER MY ASYMPTOMATIC LONGSTANDING PERSISTENT AF PATIENT WITH A LEFT ATRIAL SIZE OF 5.8 CM TO AF ABLATION?**

**Catheter Ablation - Ablation of AF and Atrial Flutter (including surgical ablation)**

**Room 3018, Moscone West**

**4:30 - 5:15 p.m.**

**Debate**

**F**

**CME/CE Hours:** 0.75

**Supported by an unrestricted educational grant provided by Biosense Webster, Inc.**

**Session Description:** This session will review the long-term outcome of AF ablation for longstanding persistent AF is quite disappointing. Leading experts in the field AF ablation will present the available data to make a case to abl or not to ab

**Chair:** Bruce D. Lindsay, MD, FHRS, CCDS. Cleveland Clinic Foundation, Cleveland, OH

**4:35 p.m.**

**I Should Refer my Asymptomatic Longstanding Persistent AF Patient with a Left Atrial Size of 5.8 cm to AF Ablation**

Robert A. Schweikert, MD, FHRS. Akron General Medical Center, Akron, OH

**4:50 p.m.**

**The Risks of Ablation Appear to Outweigh the Benefits in my Asymptomatic Longstanding Persistent AF Patient with a Left Atrial Size of 5.8 cm to AF Ablation**

D. Wyn Davies, MD, FHRS. St. Mary’s Hospital - Imperial College Healthcare NHS Trust, London, United Kingdom

**5:05 p.m.**

**Rebuttal**

Robert A. Schweikert, MD, FHRS. Akron General Medical Center, Akron, OH

**5:10 p.m.**

**Rebuttal**

D. Wyn Davies, MD, FHRS. St. Mary’s Hospital - Imperial College Healthcare NHS Trust, London, United Kingdom

**Session 038. IS HYBRID SURGICAL ABLATION THE INITIAL PROCEDURE OF CHOICE FOR PATIENTS WITH PERSISTENT AF OR SEVERE LA DILATATION?**

**Clinical Electrophysiology - Ablation of AF and Atrial Flutter (including surgical ablation)**

**Room 3002, Moscone West**

**4:30 - 5:15 p.m.**

**Debate**

**F**

**CME/CE Hours:** 0.75

**Supported by an unrestricted educational grant provided by Biosense Webster, Inc.**

**Session Description:** Come hear the experts debate this important patient management issue.
Session Description: This session will provide a lively discussion of the pros and cons of the subcutaneous ICD, with focus particularly on usage of the device in children.

Chair: Edward P. Walsh, MD, CCDS. Boston Children's Hospital, Boston, MA

4:35 p.m. The Subcutaneous ICD Should Be First-Line in Children
Kathryn K. Collins, MD, FHRS. University of Colorado, Aurora, CO

4:50 p.m. The Subcutaneous ICD Should NOT Be First-Line in Children
Jan Till, MD. Royal Brompton Hospital, London, United Kingdom

5:05 p.m. Rebuttal
Kathryn K. Collins, MD, FHRS. University of Colorado, Aurora, CO

5:10 p.m. Rebuttal
Jan Till, MD. Royal Brompton Hospital, London, United Kingdom

Session Description: This session will highlight strategies and considerations for programming CIEDs in the challenging scenarios of MRI conditional/compatible devices, programming for shock reduction and pacemaker sensor optimization.

Chairs: Robin A. Leahy, RN, BSN, FHRS, CCDS. Sanger Heart & Vascular Institute, Charlotte, NC
Heather M. Ross, DNP, ANP-BC, FHRS, CCDS, CEPS. Arizona Arrhythmia Consultants, Scottsdale, AZ

4:30 p.m. MRI Conditional and Compatible CIEDS: Programming Considerations and Limitations
Terri Cooper, RN, CCDS. Sanger Heart and Vascular Institute, Charlotte, NC

5 p.m. Programming Rate Response: Are we Making Promises that the Pacemaker Can Not Keep?
Amber Seiler, BSN. ConeHealth Medical Group HeartCare, Greensboro, NC

5:30 p.m. How to Program SVT Discriminators to Facilitate Shock Reduction in ICDs
Amy S. Leiserowitz, RN, CCDS. Iowa Heart Center, West Des Moines, IA

Session Description: This interactive session will cover four clinical case presentations highlighting interesting and challenging cases related to patient management in the Device Clinic. Allied professional experts will discuss each case and disc...
This session will review super-resolution microscopy and how it has revolutionized the microscopy field.

However, not everyone needs it and, as a novel method, it is still prone to artifacts that can go undetected by the non-ex

**Session Description:**

This session will highlight important CIED procedure related complications and discuss options for optimal management.

**Chair:**

Sumeet Mainigi, MD, FHRS. Albert Einstein Medical Center, Philadelphia, PA

4:30 p.m. Asymptomatic Post-Procedure Pneumothorax: Watchful Waiting or Chest Tube

Advay Bhatt, MD, FHRS. The Valley Hospital, Ridgewood, NJ

4:55 p.m. Post-Procedure Pocket Hematoma: Evacuate or Conservative Management

David H. Birnie, MD. University of Ottawa Heart Institute, Ottawa, ON, Canada

5:15 p.m. Single Chamber ICD Lead Fracture: New Transvenous Lead or New Subcutaneous ICD

Melanie Maytin, MD, FHRS. Brigham and Women’s Hospital, Boston, MA

5:35 p.m. Bacteremia in a CIED Patient: Trial of Antibiotics or Conservative Management

Muhammad R. Sohail, MD. Mayo Clinic, Rochester, MN

### Session 046. LEADLESS PACMAKERS: WHERE WE ARE AND WHERE WE ARE GOING

**Cardiovascular Implantable Electronic Devices - Implantable Monitors, Sensors, and Novel CIED Devices**

**Room 2001, Moscone West**

4:30 - 6 p.m.

**CME/CE Hours:** 1.5

**Supported by an unrestricted educational grant provided by Boston Scientific.**
THURSDAY

Session Description: This session will provide insights as to where we are and where we are going with headless pacemakers

Chairs: Jagmeet P. Singh, MD, PhD, FHRS. Massachusetts General Hospital, Boston, MA
Josef Kautzner, MD, PhD. Institute for Clinical and Experimental Medicine, Prague, Czech Republic

4:35 p.m. The Optimal Patient for a Leadless Pacemaker
Philippe Ritter, MD. Hôpital Haut-Lévêque, Pessac, France

4:55 p.m. Considerations During the Implant Procedure
Dwight W. Reynolds, MD, FHRS. The University of Oklahoma College of Medicine, Oklahoma City, OK

5:15 p.m. The Clinical Experience to Date
Razali Omar, MD. National Heart Institute, Kuala Lumpur, DC

5:35 p.m. What Does the Future Hold?
Petr Neuzil, MD, PhD. Na Homolce Hospital, Prague, Czech Republic

Session 047. PRIMARY PREVENTION ICD’S IN SPECIAL POPULATIONS
Cardiovascular Implantable Electronic Devices - Sudden Death Risk Assessment and Treatment
Room 2007, Moscone West 4:30 - 6 p.m.
Core Curriculum F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Boston Scientific.

Session Description: This session will explain primary prevention ICDs in patients with ARVD, HCM, Chagas and Non-compaction. The risks and benefits of ICDs will be reviewed along with patient outcomes.

Chairs: Ivan C. Ho, MD, FHRS. Los Angeles Cardiology Associates, Good Samaritan Hospital, Los Angeles, CA
Alan Cheng, MD, FHRS. Johns Hopkins University, Baltimore, MD

4:35 p.m. Use of Primary Prevention ICDs in ARVC/D
William J. McKenna, MD. The Heart Hospital, London, United Kingdom

4:55 p.m. Use of Primary Prevention ICDs in HCM
Barry J. Maron, MD. Minneapolis Heart Institute, Minneapolis, MN

5:15 p.m. Use of Primary Prevention ICDs in Noncompaction
Kadir Caliskan, MD. Erasmus Medical Center, Rotterdam, Netherlands

5:35 p.m. Primary Prevention ICD’s in Special Populations
Stephen Vlaj, MD, FHRS, CCDS. Stony Brook University Hospital, Stony Brook, NY

Session 048. SUCCESSFUL IMPLANTATION OF CIED DEVICES: “SPECIAL” SITUATIONS
Cardiovascular Implantable Electronic Devices - Device and Lead Management Considerations, including Lead Extraction
Room 3003, Moscone West 4:30 - 6 p.m.
How-To ARS F PM
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Boston Scientific.

Session Description: This session will review patient selection, patient management, implanting pearls and pitfalls for CIEDs in various special situations

Chairs: Jayanthi N. Koneru, MD, CCDS. VCU Medical Center, Richmond, VA
Hiroshi Ashikaga, MD. Johns Hopkins University, Baltimore, MD

4:35 p.m. Minimizing Complications During a Leadless Pacemaker Implant
Johannes K. Sperzel, MD. Kerckhoff-Klinik, Bad Nauheim, Germany

4:55 p.m. Ensuring an Adequate Defibrillation Threshold
Raul Weiss, MD, FHRS, CCDS. The Ohio State University, Columbus, OH

5:15 p.m. CIED Implantation in a Patient on Anticoagulation
Dan L. Musat, MD. Valley Health System, Ridgewood, NJ

5:35 p.m. Hit-Bundle Pacing in Complete Heart Block Patients
Gopi Dandamudi, MD, FHRS. Krannert Institute of Cardiology, Indiana University School of Medicine, Wilkes-Barre, IN

Session 049. ANATOMICAL CONSIDERATIONS FOR AF AND VT ABLATION
Catheter Ablation - Ablation of AF and Atrial Flutter (including surgical ablation)
Room 2002, Moscone West 4:30 - 6 p.m.
Core Curriculum F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

Session Description: This session will review the various anatomical considerations in undertaking complex ablation in the atria and ventricle

Chairs: Shoei K. Stephen Huang, MD, FHRS, CCDS. Tzu Chi University School of Medicine, Hualien, Taiwan
Jeremy N. Ruskin, MD. Massachusetts General Hospital, Boston, MA

4:35 p.m. Atrial Anatomy and Surrounding Structures: Topography and Relations
Jose A. Cabrera, MD, PhD. Hospital Universitario Quiron Madrid, Madrid, Spain

4:55 p.m. Anatomic Factors Relevant to Optimizing AF Ablation Safety and Efficacy
Xunzhang Wang, MD. Cedars-Sinai Medical Center, Los Angeles, CA

5:15 p.m. Importance of Outflow Tract and Endocardial Anatomy in Idiopathic VT Ablation
G. Neal Kay, MD, CCDS. University of Alabama at Birmingham, Birmingham, AL

5:35 p.m. Anatomic Considerations in Epicardial Mapping and Ablation
Jonas Kautzner, MD, PhD. Kyorin University Hospital, Mitaka-city, Japan

Session 050. CHALLENGING VT/PVC ABLATION CASES

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Session Description: VT/PVC ablations that are difficult to diagnose or ablate as well as ablation-related complications will be presented. Each case will be followed by a panel discussion.

Chair: Saurabh Kumar, BSc(Med), MBBS. Royal Melbourne Hospital, Melbourne, Australia

4:30 p.m. Case 1  
Petr Peichl. IKEM, Prague, Czech Republic

4:45 p.m. Case 2  
Shih-Lin Chang, MD, PhD. Taipei Veterans General Hospital, Taipei, Taiwan

5 p.m. Case 3  
Roderick Tung, MD, FHRs. University of California - Los Angeles, Los Angeles, CA

5:15 p.m. Case 4  
Craig S. Cameron, MD, FHRs. Oklahoma Heart Institute, Tulsa, OK

5:30 p.m. Case 5  
Paul J. Garabelli, MD. University of Oklahoma Health Sciences Center, Oklahoma City, OK

5:45 p.m. Case 6  
Caterina Bisceglia, MD, PhD. San Raffaele Hospital, Milan, Italy

4:30 p.m. Panels

Richard C. Wu, MD, FHRs. University of Texas Southwestern Medical Center, Dallas, TX

Alexander Romanov, MD PhD. State Research Institute of Circulation Pathology, Novosibirsk, Russian Federation

Roland R. Tilz, MD. Asklepios Klinik St. Georg, Hamburg, Germany

Session JS07. EPICARDIAL ACCESS: 20 YEARS AND STILL GROWING

Catheter Ablation

Room 303, Moscone South 4:30 - 6 p.m.

Joint Session

CME/CE Hours: 1.5

SOBRAC - Brazilian Society of Cardiac Arrhythmias

Session Description: It has been 20 years since the description of percutaneous epicardial access and ablation. Since then it gained importance for treatment of several complex cardiac arrhythmias. This has also gained a great deal of interest in t

Chairs: Denise Hachul, MD, PhD. Instituto Do Coracao, Sao Paulo, Brazil

4:30 p.m. Percutaneous Pericardial Access and Ablation - One Size Fits All?

Andre D’Avila, MD, PhD. Hospital Cardiologico, Florianopolis, Brazil

4:45 p.m. When is Epicardial Ablation Mandatory: Ventricular Arrhythmias and Beyond

Mauricio I. Scanavacca, MD, PhD. Instituto Do Coracao, Sao Paulo, Brazil

5 p.m. Lead Implantation

Pierre Jais, MD. Hôpital Haut-Lévêque, Bordeaux, France

5:15 p.m. Left Atrial Appendage Occlusion - Tips and Tricks

Vivek Y. Reddy, MD. Mount Sinai School of Medicine, New York, NY

5:30 p.m. Complex Epicardial Case Presentation

David J. Callans, MD, FHRs, CCDS. University of Pennsylvania, Philadelphia, PA

5:40 p.m. Case Discussant

Eduardo B. Saad, MD, FHRs. Hospital Pro-Cardiaco, Rio De Janeiro, Brazil

5:50 p.m. Case Discussant

Eduardo B. Sternick, MD, PhD, FHRs. Biocor Instituto, Belo Horizonte, Brazil

Session 051. PEARLS IN CLINICAL ELECTROCARDIOLOGY: ARRHYTHMIA MECHANISMS, SITES OF ORIGIN, AND MORE

Clinical Electrophysiology

Room 2020, Moscone West 4:30 - 6 p.m.

Case Based Tutorial

CME/CE Hours: 1.5

Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

Session Description: This session will review how to plan your invasive EP study and perform it as efficient as possible. Starting at the 12 lead ECG and reviewing the typical intracardiac signals, the expert panel will show you how to master the c

Chair: Eric N. Prystowsky, MD, FHRs. St. Vincent Medical Group, Indianapolis, IN

4:35 p.m. Use P Wave Morphology to Predict the Origin and Mechanism of AT

Peter M. Kistler, MBBS, PhD. Alfred Hospital and Baker Heart and Diabetes Institute, Melbourne, Australia

4:55 p.m. Determine SVT Mechanisms Before You Walk into the EP Lab

Mark E. Josephson, MD. Beth Israel Deaconess Medical Center, Boston, MA

5:15 p.m. Use the 12-Lead ECG to Tailor VT Ablation Strategy

Michael P. Riley, MD, PhD. Hospital of The University of Pennsylvania, Philadelphia, PA

5:30 p.m. How to Localize PVCs to Specific Anatomical Structures

Vivek Y. Reddy, MD. Mount Sinai School of Medicine, New York, NY

5:45 p.m. Lead Implantation

Pierre Jais, MD. Hôpital Haut-Lévêque, Bordeaux, France

5:15 p.m. Left Atrial Appendage Occlusion - Tips and Tricks

Vivek Y. Reddy, MD. Mount Sinai School of Medicine, New York, NY

5:30 p.m. Complex Epicardial Case Presentation

David J. Callans, MD, FHRs, CCDS. University of Pennsylvania, Philadelphia, PA

5:40 p.m. Case Discussant

Eduardo B. Saad, MD, FHRs. Hospital Pro-Cardiaco, Rio De Janeiro, Brazil

5:50 p.m. Case Discussant

Eduardo B. Sternick, MD, PhD, FHRs. Biocor Instituto, Belo Horizonte, Brazil

Session 052. AN ELECTROPHYSIOLOGICAL APPROACH TO ATRIAL FLUTTER AND ATRIAL TACHYCARDIA ABLATION

Clinical Electrophysiology - SVT/AVNRT/ WP/WP/AT Management, Mechanisms, Diagnosis, and Ablation

Room 3014, Moscone West 4:30 - 6 p.m.

Core Curriculum

CME/CE Hours: 1.5

Supported by an unrestricted educational grant provided by Biosense Webster, Inc.
Session Description: A session detailing an integrative approach to mapping and successful ablation of complex atrial tachycardia

Chairs: Chang-Sheng Ma, MD, FHRS. Beijing An Zhen Hospital, Beijing, China
        Gabriele Hessling, MD, Deutsches Herzzentrum München, Munich, Germany

4:35 p.m. Advanced Image Integration for Complex Ablation Procedures
         Sabine Ernst, MD. Royal Brompton Hospital, London, United Kingdom

4:55 p.m. Defining the Mechanism of Atrial Tachycardia
         Jonathan M. Kalman, MBBS, PhD, FHRS. Royal Melbourne Hospital, Melbourne, Australia

5:15 p.m. How Much Advanced Mapping Technology is Needed for Successful Catheter Ablation in Complex Congenital Heart Disease?
          Jonathan R. Skinner, MD, FHRS. Starship Hospital, Auckland, New Zealand

5:35 p.m. Access to Inaccessible Target Chambers: A Review of the Available Options
          Ravi Mandapati, MD, FHRS, CCDS, CEPS. Loma Linda University Medical Center, Loma Linda, CA

Session 053. NATURE RULES! THE RISE OF BIOLOGICALS TO REPLACE CATHETERS, DRUGS, AND DEVICES IN ANTIARRHYTHMIC THERAPY

Clinical Electrophysiology - Genetics of Cardiac Arrhythmias: AF Mechanisms and Prevention
Room 2006, Moscone West 4:30 - 6 p.m.
Core Curriculum F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

Session Description: This session will provide a state-of-the-art overview of the most promising developments in the fields of biological pacemakers, electrically active antibodies, and antiarrhythmic gene therapy.

Chairs: J. Kevin Donahue, MD. University of Massachusetts Medical School, Worcester, MA
        Michael R. Rosen, MD, FHRS. Columbia University, New York, NY

4:35 p.m. Biological Pacemaker: Ready for Application in Humans?
          Eugenio Cingolani, MD. Cedars-Sinai Medical Center, Los Angeles, CA

4:55 p.m. Gene Therapy: The Future of Atrial Fibrillation Management?
          Dierk Thomas, MD, FHRS. Heidelberg University, Heidelberg, Germany

5:15 p.m. Electrically Active Antibodies: Emerging Roles in Pathophysiology and Antiarrhythmic Therapy
          Stanley Nattel, MD, FHRS. Montreal Heart Institute, Montreal, QC, Canada

5:35 p.m. A Genetic Cure for Ventricular Tachycardia
          J. Kevin Donahue, MD. University of Massachusetts Medical School, Worcester, MA

Session 054. CRT IN POPULATIONS UNDERREPRESENTED IN RANDOMIZED TRIALS
Heart Failure - Resynchronization Therapy: Science, Techniques, and Outcomes
Room 2003, Moscone West 4:30 - 6 p.m.
Core Curriculum F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Amgen

Session Description: This session will discuss response and outcome of CRT in patient populations underrepresented in our major clinical trials. Use of CRT in octogenarians, patients with renal dysfunction and in RBBB will be discussed as well.

Chairs: Michael Gilksom, MD. Sheba Medical Center, Ramat Gan, Israel
        Hemal M. Nayak, MD. Cardiovascular Associates, Philadelphia, PA

4:35 p.m. CRT in Octogenarians
          Sana M. Al-Khatib, MD, MHS, FHRD, CCDS. Duke University Medical Center, Durham, NC

4:55 p.m. CRT in Patients with Renal Dysfunction
          Theofanie Mela, MD. Massachusetts General Hospital, Boston, MA

5:15 p.m. CRT in Patients with RBBB
          Maurizio Gasparini, MD. Humanitas Research Hospital, Rozzano-Milano, Italy

5:35 p.m. CRT Gender and Race Considerations
          Uma N. Srivatsa, MD, FHRS. University of California - Davis Medical Center, Sacramento, CA

Session 055. PREDICTING MORTALITY IN PATIENTS WITH LV SYSTOLIC DYSFUNCTION
Heart Failure - Heart Failure: Etiology, Diagnosis, and Management
Room 3022, Moscone West 4:30 - 6 p.m.
Core Curriculum F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Amgen

Session Description: This session will review the mechanism of death in HF patients, how to assess mortality risk in HF patients, and using predictive models to guide therapy.

Chairs: Jeanne E. Poole, MD, FHRS, CCDS. University of Washington, Seattle, WA
        James Fang, MD. University of Utah, Salt Lake City, UT

4:35 p.m. How Do Heart Failure Patients Die? Insights from Registries and Clinical Trials
          Lynne W. Stevenson, MD. Brigham and Women’s Hospital, Boston, MA

4:55 p.m. Biomarkers: Which One(s) Predict the Future?
          Robert C. Bourge, MD. University of Alabama at Birmingham, Birmingham, AL

5:15 p.m. Cardio Imaging: Does Looking at the Heart Let us See the Future?
          Ravi Ranjan, MD, PhD, FHRS. University of Utah, Salt Lake City, UT

5:35 p.m. Using Risk Prediction to Guide Therapy: Underused or Not Ready for Prime Time?
          Larry Allen. University of Colorado, Aurora, CO
Session 056. PUSHING THE FRONTIERS - NEW APPLICATIONS OF FLUORO-LESS TECHNIQUES
Pediatrics and Adult Congenital Heart Disease
Room 102, Moscone South 4:30 - 6 p.m.
Core Curriculum ARS F MOC-ABP
CME/CE Hours: 1.5

Session Description: This session will identify new fluororesless approaches to EP procedures, including discussion of ablation techniques and pacemaker implantation.

Chairs: Peter P. Karpawich, MD, FHRS. Children’s Hospital of Michigan - Wayne State University, Detroit, MI
Joel A. Kirsh, MD, FHRS, CCDS. Hospital for Sick Children, Toronto, ON, Canada

4:35 p.m. Fluoro-Less Pacemaker Implantation
Eric S. Silver, MD. Presbyterian Morgan Stanley Children’s Hospital, New York, NY

4:55 p.m. Using Pre-Recorded Images to Decrease Radiation
Thomas A. Pilcher, MD, FHRS. University of Utah, Salt Lake City, UT

5:15 p.m. Optimizing Safety and Success in Fluoro-Less AVNRT Ablation
Nicholas H. Von Bergen, MD. The University of Wisconsin, Iowa City, WI

5:35 p.m. Taking on the Fluoro-Less Transeptal Puncture
Christina Y. Miyake, MD. Texas Children’s Hospital, Houston, TX

Session JS17. IMPROVING PATIENT SAFETY: CLINICIANS, FDA, AND AAMI/INDUSTRY JOINT SESSION
Special Session
Room 121, Moscone North 4:30 - 6 p.m.
Joint Session
CME/CE Hours: 1.5
Joint Session presented by AAMI Cardiac Rhythm Management Device Committee (CRMD)

Session Description: The AAMI Cardiac Rhythm Device Committee (CRMD) has a close partnership with HRS physicians, the FDA and CIED manufacturers to improve device designs, characteristics and reliability. This session will focus on MRI compatible p

Chairs: Roger G. Carrillo, MD, FHRS, CCDS. University of Miami, Miami, FL
Bruce L. Wilkoff, MD, FHRS, CCDS. Cleveland Clinic, Cleveland, OH

4:30 p.m. From Bench to Patient: Why We Should Participate in Standards
Bruce L. Wilkoff, MD, FHRS, CCDS. Cleveland Clinic, Cleveland, OH

4:45 p.m. Are All CIED Devices MRI Compatible?
Gabriel A. Mouchawar, Ph.D. in EE. St. Jude Medical, Sylmar, CA

5 p.m. EAS: Don’t Lean-Don’t Linger - Are Patients Aware?
J. Rod Gimbel, MD. Parkwest Hospital, Knoxville, TN

5:10 p.m. CIED EMI Immunity: Are Smart Phones a Problem?
Joel Pelletier. Medtronic, Inc, Minneapolis, MN

5:20 p.m. Patient Discrimination Coming to a Workplace Near You?

5:35 p.m. Improving Outcomes for Devices and Leads
Mitchell J. Shein, MS, FHRS, CCDS. Food and Drug Administration, Silver Spring, MD

5:40 p.m. Improving Outcomes for Devices and Leads
Robert A. Stevenson, BS, MA, FHRS. Greatbatch Medical, Inc., Santa Clarita, CA

Session SP18. 2016 HRS NEW DOCUMENT HIGHLIGHTS SESSION
Special Session
Room 120, Moscone North 4:30 - 6 p.m.
Special Session
CME/CE Hours: 1.5

Session Description: The following expert consensus statements are scheduled to publish in summer 2017: 2017 HRS/EHRA/SOLACE/APHRS/ECAS Expert Consensus Statement on Catheter and Surgical Ablation of Atrial Fibrillation; HRS Expert Consensus Stat

Chairs: Mina K. Chung, MD, FHRS. Cleveland Clinic, Cleveland, OH
Kristen K. Patton, MD. University of Washington, Seattle, WA

4:30 p.m. Invited Speaker
Hugh G. Calkins, MD, FHRS, CCDS. Johns Hopkins University, Baltimore, MD

4:55 p.m. Invited Speaker
J. Rod Gimbel, MD. Parkwest Hospital, Knoxville, TN

5:20 p.m. Invited Speaker
Fred M. Kusumoto, MD, FHRS. Mayo Clinic, Jacksonville, FL

Session SP41. MY FIRST 365 DAYS AS AN ELECTROPHYSIOLOGIST
Special Session
Room 2011, Moscone West 4:30 - 6 p.m.
Special Session
CME/CE Hours: 1.5

Session Description: This session will outline selected challenges for early career EPs that can be sources of frustration and anxiety, including the EP board exam, patient selection, coding and billing.

Chairs: Jay Montgomery, MD. Vanderbilt University Hospital, Nashville, TN
Babak Nazer, MD. University of California San Francisco, San Francisco, CA

4:30 p.m. Preparing for the First Job: What I Would Have Done Differently Prior to Finishing Fellowship?
Jason D. Roberts, MD. Western University, London, ON

4:45 p.m. Patient Selection: How to Minimize Complications?
Bradley P. Knight, MD, FHRS. Northwestern Memorial Hospital, Chicago, IL

5 p.m. Strategies for the EP Boards
Kenneth A. Ellenhagen, MD, FHRS. Medical College of Virginia, Richmond, VA

5:15 p.m. Economics of EP: Coding and Billing

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Session SP44. EXCITING AND MEANINGFUL EP RESEARCH IN THE HALLS OF INDUSTRY

**Special Session**
Room 135, Moscone North 4:30 - 6 p.m.
Special Session
CME/CE Hours: 0.75

**Session Description:** The session will demonstrate various forms of active research occurring in the realm of private industry, providing a unique perspective relevant to clinicians and academic investigators.

**Chairs:**
- Gregory M. Marcus, MD, F.HRS. University of California - San Francisco, San Francisco, CA
- Jonathan P. Piccini, MD, MHS, F.HRS. Duke University Medical Center, Durham, NC

4:30 p.m. How Leadership Works to Assure that Rigorous Science Takes the Forefront in a Major For-profit Company
Mark D. Carlson, MD, F.HRS. St. Jude Medical Cardiac Rhythm Management, Sylmar, CA

4:45 p.m. What Electrophysiologist Should know about Industry Research Collaborations: An Insider’s Perspective
Uday N. Kumar, MD, Element Science, Inc., San Francisco, CA

5 p.m. Changing Perspectives on Industry from an Academic Basic Science Laboratory to ‘Big Pharma’
Jonathan T. Lu, MD, PhD. Columbia University, New York, NY

5:15 p.m. Examples of Exciting Original Engineering Research that Routinely Occurs Within the Halls of Industry
Julie Thompson. Boston Scientific, Boston, MA

Session 057. MY PAROXYSSMAL AF PATIENT WEIGHS 150 KG AND HAS HYPERTENSION, DIABETES AND OBSTRUCTIVE SLEEP APNEA: SHOULD I MODIFY RISK FACTORS BEFORE OFFERING ABLATION? Catheter Ablation - Ablation of AF and Atrial Flutter (including surgical ablation)
Room 3018, Moscone West 5:30 - 6:15 p.m.
Debate F
CME/CE Hours: 0.75
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

**Session Description:** This session will review recent studies shown that modifying risk factors such as obesity and sleep apnea significantly reduces the AF burden. However, it is not clear if AF ablation should be postponed until risk factors are in

**Chair:**
- Evgeny Pokushalov, MD, PhD. State Research Institute of Circulation Pathology, Novosibirsk, Russian Federation

5:35 p.m. In this Patient, I will Proceed with Ablation First
Walid I. Saliba, MD, F.HRS. Cleveland Clinic Foundation, Cleveland, OH

5:50 p.m. In this Patient, I will Modify Risk Factors Before Proceeding with Ablation
Dennis H. Lau, MBBS, F.HRS. Royal Adelaide Hospital and Adelaide University, Adelaide, Australia

6:05 p.m. Rebuttal
Walid I. Saliba, MD, F.HRS. Cleveland Clinic Foundation, Cleveland, OH

6:10 p.m. Rebuttal
Dennis H. Lau, MBBS, F.HRS. Royal Adelaide Hospital and Adelaide University, Adelaide, Australia

Session 058. THE MECHANISM OF HUMAN PERSISTENT AF IS DUE TO ROTORS: IS THE SCIENCE SETTLED?
Clinical Electrophysiology - Ablation of AF and Atrial Flutter (including surgical ablation)
Room 3002, Moscone West 5:30 - 6:15 p.m.
Debate F
CME/CE Hours: 0.75
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

**Session Description:** Debate on the underlying mechanisms of persistent AF and their relevance for catheter ablation

**Chair:**
- Yu-Ki Iwasaki, MD. Nippon Medical School, Tokyo, Japan

5:35 p.m. The Mechanism of Human Persistent AF is Due to Rotors: The Science is Settled!
John M. Miller, MD, F.HRS. Indiana University School of Medicine, Indianapolis, IN

5:50 p.m. The Mechanism of Human Persistent AF is Still More Complex Than we can Possibly Imagine!
Ravi Mandapati, MD, F.HRS, CCDS, CEPS. Loma Linda University Medical Center, Loma Linda, CA

6:05 p.m. Rebuttal
John M. Miller, MD, F.HRS. Indiana University School of Medicine, Indianapolis, IN

6:10 p.m. Rebuttal
Ravi Mandapati, MD, F.HRS, CCDS, CEPS. Loma Linda University Medical Center, Loma Linda, CA

Session 059. IS HIS BUNDLE PACING SUPERIOR TO BIVENTRICULAR PACING
Pediatrics and Adult Congenital Heart Disease - Bradycardia, AV Block, and Bradycardia Devices
Room 104, Moscone South 5:30 - 6:15 p.m.
Debate F
CME/CE Hours: 0.75

**Session Description:** This will be a debate about the best approach to CRT: His bundle pacing vs traditional biventricular pacing

**Chair:**
- Frank Cecchin, MD, CEPS. New York University Langone Medical Center, New York, NY

5:35 p.m. Bundle Pacing is Superior to Biventricular Pacing
Daniel L. Lustgarten, MD, PhD, F.HRS. Fletcher Allen Health Care - The University of Vermont, Burlington, VT

5:50 p.m. His Bundle Pacing is Not Superior to Biventricular Pacing
Anne M. Dubin, MD, F.HRS. Stanford University, Palo Alto, CA

6:05 p.m. Rebuttal
Daniel L. Lustgarten, MD, PhD, F.HRS. Fletcher Allen Health Care - The University of Vermont, Burlington, VT

6:10 p.m. Rebuttal
THURSDAY

Anne M. Dubin, MD, FHRS. Stanford University, Palo Alto, CA