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**Session Tags:**
F – Fellows-in-Training
PM – Practice Management
ARS – Audience Response System
Session B-AB01. ALLIED PROFESSIONAL ABSTRACTS - TEACHING CASE REPORTS

Allied Professionals
Room 210A 8 - 9:30 AM

Abstract
CME/CE Hours: 1.5

Session Description: This session will highlight case reports presented by allied professionals highlighting the treatment of unique and complex arrhythmia and device issues.

Chairs: Sarah A. Worsnick, PAC, FHRS, CEPS, CCDS. Geisinger Health System, Scranton, PA
Jill L. Schaeffer, MSN, CRNP, FHRS, CEPS, CCDS. The Heart Group, Stevens, PA

8 a.m.

B-AB01 -01: When To Consider The Diagnosis Of Lamin Cardiomyopathy In Patients With Atrial Fibrillation?
Tara Parham, CRNP, Erica S. Zado, PAC, FHRS, Sanjay Dixit, MD, FHRS and Francis E. Marchlinski, MD, FHRS. Hospital of the Univ of Pennsylvania, Havertown, PA, Hospital of the Univ of Pennsylvania, EP, Philadelphia, PA, Hosp. of Univ of Pennsylvania, WYNNEWOOD, PA, Hospital of the Univ of Pennsylvania, Cardiac Electrophysiology, Bala Cynwyd, PA

8:15 a.m.

B-AB01 -02: Complex Electrical Disorder Associated With Prkag2 Mutation
Angela M. Naperkowski, RN, FHRS, Sarah A. Worsnick, PAC, FHRS, CEPS, CCDS, Wilson Young, MD, PhD and Pugazhendhi Vijayaraman, MD, FHRS. Geisinger Heart Institute, Wilkes-Barre, PA, Geisinger Health System, Wilkes-Barre, PA, Geisinger Heart Institute, Wilkes-Barre, PA

8:30 a.m.

B-AB01 -03: Recurrent AF Arising From The Native Right Atrium Of A Patient With Bialtral Orthotropic Heart Transplant
Tracey Munson, Erica S. Zado, PAC, FHRS, Michael P. Riley, MD, PhD and Robert Hipp, MBA, MS, PA. The Hospital of the University of Pennsylvania, Philadelphia, PA, Hospital of the Univ of Pennsylvania, EP, Philadelphia, PA, Hospital of The Univ Of Pennsylvania, Philadelphia, PA, University of Pennsylvania, Philadelphia, PA

8:45 a.m.

B-AB01 -04: An Unusual Case Of Dyspnea Following Left Atrial Ablation In A Patient With Arrhythmogenic Ventricular Cardiomyopathy
Gertlynn M. Schott, ACNP, Adam C. Lee, MBBS and Edward P. Gerstenfeld, MD, FHRS. University of California San Francisco, San Francisco, CA, University of San Francisco, San Francisco, CA, University of California, San Francisco, Larkspur, CA

9 a.m.

B-AB01 -05: A Case Series Of Trans-baffle Lead Extraction Procedures Involving Patients With Surgically Corrected Dextro-transposition Of The Great Arteries (D-TGA)
Amanda Breuer, PA, Anne Barnett, PA, Jill Triphun, BSN, Graham Adsit, MD, Micah J. Roberts, BS, DO and Miguel A. Leal, MD, FHRS. University of Wisconsin, Madison, WI, UW Hospital and Clinics, Madison, WI, UW Health - Cardiovascular Medicine, Cambridge, WI, University of California San Francisco-Fresno Cardiovascular Disease Fellowship, Verona, WI

9:15 a.m.

B-AB01 -06: Success Rates, Safety And Short-term Outcomes Of His Bundle Pacing Following Avj Ablations
Ryan Zimberg, RN, CCRN, Nicholas J. Serafini, MD, Pratik Patel, Henry D. Huang, MD, Kousik Krishnan, MD, FHRS, Richard G. Trohman, MD, FHRS and Parikshit S. Sharma, MD, MPH. Rush University Medical Center, Chicago, IL, University of Illinois Chicago, Chicago, IL, Rush Univ Medical Center, Chicago, IL

Session B-AB02. NEW CONCEPTS FOR TREATING AND MODELING ATRIAL AND VENTRICULAR ARRHYTHMIA

Basic Translational Science
Room 160 8 - 9:30 AM

Abstract
CME/CE Hours: 1.5

Session Description: Session introduces the latest advances in experimental antiarrhythmic treatments

Chairs: Kenneth R. Laurita, PhD. Case Western Reserve Univ MetroHealth Campus, Heart and Vascular Research Center, Cleveland, OH
Charles Antzelevitch, PhD, FHRS. Lankenau Institute for Medical Research, Wynnewood, PA

8 a.m.

B-AB02 -01: Targeting Ischemic Myocardial Scar With Pencil-beam Scanning Proton Therapy In A Porcine Model
Stephan Hohmann, MD, Amanda J. Deisher, Ph.D., Atsushi Suzuki, MD, PhD, Hiroki Konishi, MD, Jon J. Kruse, PhD, H. Immo Lehmann, MD, Maryam Rettmann, Kay D. Parker, CTV, L. Katie Newman, CTV, Michael G. Herman, PhD and Douglas L. Packer, MD, FHRS. Mayo Clinic, Department of Cardiovascular Disease, Rochester, MN, Mayo Clinic, Rochester, MN, Mayo Clinic/St. Marys Hospital, Rochester, Rochester, MN, Mayo Clinic, University of Wisconsin, Madison, WI, UW Hospital and Clinics, Madison, WI, UW Health - Cardiovascular Medicine, Madison, WI, UW Health - Cardiovascular Medicine, Cambridge, WI, University of California San Francisco-Fresno Cardiovascular Disease Fellowship, Verona, WI

12:15 p.m.

B-AB02 -02: Optogenetic Termination Of Polymorphic Ventricular Arrhythmias In An Adult Rat Model Of Chronic Pressure Overload
Magda Sofia. Fontes, PhD, Linda Volkers, PhD, Emile C.A. Nyns, MD, Cindy L. Bart, BSc, Annemarie M. Kip, MSc, Antoine A. F. de Vries, PhD and Daniel Antonie. Pijnappels, PhD. Leiden University Medical Center, Leiden, Netherlands, Leiden University Medical Center, Cardiology, Leiden, Netherlands

8:15 a.m.

B-AB02 -03: Autogenous Termination Of Atrial Fibrillation In Vivo By Local Optogenetic Gene Delivery
Emile C.A. Nyns, MD, Linda Volkers, PhD, Cindy Bart, BSc, Annemarie M. Kip, MSc, Antoine A. F. de Vries and Daniel Antonie. Pijnappels, PhD. Leiden University Medical Center, Leiden, Netherlands, Leiden University Medical Center, Cardiology, Leiden, Netherlands

8:30 a.m.

B-AB02 -04: Optogenetic Termination Of Polymorphic Ventricular Arrhythmias In An Adult Rat Model Of Chronic Pressure Overload
Magda Sofia. Fontes, PhD, Linda Volkers, PhD, Emile C.A. Nyns, MD, Cindy L. Bart, BSc, Annemarie M. Kip, MSc, Antoine A. F. de Vries, PhD and Daniel Antonie. Pijnappels, PhD. Leiden University Medical Center, Leiden, Netherlands, Leiden University Medical Center, Cardiology, Leiden, Netherlands

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8:45 a.m. B-AB02 -04: Integration Of Electrophysiologic And Structural Features Of Human Reentrant Atrial Fibrillation Driver Regions To Guide Catheter Ablation

Brian Hansen, BS, Jichao Zhao, PhD, Ning Li, MD, PhD, Brian Pederson, BA, Alexander Zolotarev, BS, Suhaida H. Abudulwahed, No Degree, Katelynn M. Helfrich, No Degree, Sean Collins, BS, Anna Bratasz, PhD, Kimberly Powell, PhD, Bryan Whitson, MD, PhD, Peter J. Mohler, PhD, Paul ML. Janssen, PhD, Paul ML. Janssen, PhD, Raul Weiss, MD, FHRS, CCSDS, John D. Hummel, MD, FHRS and Vadim V. Fedorov, PhD. The Ohio State University, Columbus, OH, University of Auckland, Auckland, New Zealand, Abbott Laboratories, Minneapolis, MN, Moscow Institute of Physics and Technology, Moscow, Russian Federation, Ohio State University, Columbus, OH, Ohio State Univ Medical Center, Div of Cardiovascular Medicine, Columbus, OH, Ohio State Univ, Div of Cardiovascular Medicine, Columbus, OH

8:15 a.m. B-AB03 -02: Reduced Cardiac CAND2 Expression Is Associated With Atrial Fibrillation And Cardiomyopathy In Mice

William J. Hucker, MD, PhD, Heather Jameson, PhD, Alan Hanley, Caroline Herndon, PhD, Anthony Retournard, Retournard, BS, Miranda Barazza, BS, Jiangchuan Ye, MD, PhD, Jordan S. Leyton-Mange, MD, Nathan Tucker, PhD, Victoria Parsons, BS, David J. Milan, MD and Patrick T. Ellinor, MD, PhD. Massachusetts General Hospital, Boston, MA, , Broad Institute, Boston, MA

8:30 a.m. B-AB03 -03: Distinct Effects Of Acute And Chronic Insulin Treatment On Atrial Electrophysiology And Susceptibility To Atrial Fibrillation In Type 1 Diabetes Mellitus

Loryn J. Bohne, BSc, Iulia Polina, PhD, Hailey J. Jansen, PhD, Tiesong Li, PhD, Pooja Krishnaswamy, MSc, Emmanuel E. Egom, MD, PhD, Sara A. Rafferty, MSc and Robert A. Rose, PhD. University of Calgary, Calgary, AB, Canada, Dalhousie University, Calgary, NS, Canada

8:45 a.m. B-AB03 -04: The Metabolic Modulator Trimetazidine Inhibits AF-induced Atrial Structural Remodelling

Sander Verheule, PhD, Dragan Opacic, MSc, Stephanie Reid, MSc, Jorik Simons, BSc, Arne van Hunnik, MSc, Marion Kuiper, BSc, Marie-Jose Dritij, BS, Ioannis Akomianakis, PhD, Philippe Pasdois, PhD, Antje Weseler, MD, Charalambos Antoniades, MD, PhD and Ulrich Schotten, MD, PhD. Maastricht Univ, Dept. of Pharmacology and Toxicology, Maastricht, Netherlands, Maastricht Univ, Dept. of Pharmacology and Toxicology, Maastricht, Netherlands, Radcliffe Department of Medicine, University of Oxford, Oxford, United Kingdom, L'institut de rythmologie et modélisation cardiaque LIRYC - Université de Bordeaux, Pessac, France

9 a.m. B-AB02 -05: Optical Mapping Of Anisotropic Propagation In Human Cardiomyocyte Monolayers During Infrared Pacing

Sunil K. Vasireddi, MD, Matthew T. McPheeters, MS, Danielle M. Maleski, BS, Yaqob S. Taleb, BS, Michael W. Jenkins, PhD and Kenneth R. Laurita, PhD. Case Western Reserve Univ MetroHealth Campus, Heart and Vascular Research Center, Cleveland, OH, Case Western Reserve University, Dept of Pediatrics & Biomedical Engineering, Cleveland, OH

9:15 a.m. B-AB02 -06: Novel Approach To Modeling Pathogenicity Of CPVT Mutations

Alexander Kushnir, MD, PhD, Oliver Clarke, PhD, Hasan Garan, MD and Andrew Marks, MD. Columbia University, New York, NY, Columbia University Medical Center, New York, NY

Session B-AB03. NEW INSIGHTS INTO AF PATHOGENESIS

Basic Translational Science
Room 258A 8 - 9:30 AM
Abstract Plus F
CME/CE Hours: 1.5

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Session B-AB05. CONTEMPORARY OUTCOMES WITH DEVICE THERAPY AND LEAD EXTRACTION

Cardiovascular Implantable Electronic Devices

Abstract F

Room 253 8 - 9:30 AM

CME/CE Hours: 1.5

Session Description: Learn the results of recent trials of CIEDs in various disease states.

Chairs:
Arnold J. Greenspon, MD, Thomas Jefferson Univ Hospital, Philadelphia, PA
I. Eli Ovassypshcher, MD, FHRS. Ben Gurion University, BeerSheva, Israel

8 a.m. B-AB05 -01: European Multicentre Registry On Idiopathic Ventricular Fibrillation In Subjects With Otherwise Normal Electrocardiograms
Giulio Conte, MD, PhD, Beat Schauer, Giuseppe Ciconte, MD, PhD, Carlo de Asmundis, Haran Burri, MD, Elena Arbelo, MD, SC, PhD, Angela Medeiros-Domingo, MD, PhD, Johan Saenen, Valerio Zac, Roberto Rordorf, MD, Marco Zardini, MD, PHD, Georgia Sarquella-Brugada, MD, PhD, Paola M. Berne, MD, Blerim Luani, Peter Amman, J. Christoph Geller, MD, Tom De Potter, MD, PhD, PAOLO DE FILIPPO, Doctor, Mathis Stokke and Angelo Auricchio, MD, PhD, CardioCentro, Lugano, Switzerland, University of Basel Hospital, Department of Cardiology, Basel, Switzerland, Basel, Switzerland, I.R.C.C.S. Policlinico San Donato, San Donato Milanese, Italy, Irije University Institute Brussel, UZ Brussel - Heart Rhythm Management Centre, Belgium, University Hospital of Geneva, Geneva, Switzerland, Hospital Clinic De Barcelona - Cardiology Department - Cardiovascular Institute, Barcelona, Spain, Mayo Clinic, Rochester, MN, UZA, Antwerp. Belgium, Department of Cardiology IRCCS Fondazione Policlinico S.Matteo, Pavia, Italy, ICSR, Bergamo, Italy, Hospital Sant Joan de Déu, Barcelona, Spain, Cardiology Department, Hospital of Nuoro, Nuoro, Italy, Nuoro, Italy, Department of Internal Medicine, Division of Cardiology and Angiology, Magdeburg University, Magdeburg, Germany, Germany, Kardiologie, Kantonsspital St.Gallen, St.Gallen, Switzerland, St Gallen, Switzerland, Zentralklinik Bad Berka, Arhythmia Section Div Cardiology, Bad Berka, Germany, OLV Hospital, Aalst, Belgium, OSPEDALE PAPA GIOVANNI XXIII, BERGAMO, Italy, Center for Cardiological Innovation, Dept. of Cardiology, Oslo University Hospital, Rikshospitalet, Norway, Norway, Fondazione Cardiocentro Ticino, Lugano, Switzerland

8:15 a.m. B-AB05 -02: Syncope, Conduction Disturbance And Negative Electrophysiological Test: Risk Score To Predict Pacemaker Indication In Follow-up
Ivo Roca, MD, PhD, Jaume Francisco-Pascual, MD, Gerard Oristrell, MD, C, PhD, Rodriguez, MD, Nuria Rivas-Gandara, MD, PhD, Jordi Perez-Rodon, MD, PhD, Alba Santos-Ortega, MD, PhD, Sandra Llerena, MD, David Garcia-Dorado, MD, PhD and Angel Moya-Mitjans, MD, PhD. Hospital Universitari Vall d' Hebron, BARCELONA, Spain

8:30 a.m. B-AB05 -03: Epicardial Defibrillation System Implantation: Long Term-term Follow-up
Sana Amraoui, MD, Sylvain Ploux, MD, Frederic Sacher, MD, Manav Sohal, MBBS, Thomas Postpichl, MD, Melissa Lavevre, François Roubertie, MD, Louis Labrousse, MD, Philippe Ritter, MD, Jean Benoit Thambo, MD, Meleze Hocini, MD, Pierre Jais, MD, Michel Haissaguerre, MD, PhD and Pierre BORDACHAR, MD, PhD. Bordeaux University, Bordeaux, France, Bordeaux University Hospital (CHU), Pessac, France, LIRYC Institute/Bordeaux University Hospital, Bordeaux, France, King's College London, London, United Kingdom, Hospital Haut Leveque, Pesac, France, University Hospital of Bordeaux, Hopital Du Haut Leveque, Pessac 33600, France, Hopital Haut-Lévêque, Pessac, France, CWT Meetings & Events, Melissa PERNOT, Boulogne-Billancourt Cedex, France, Hopital Haut-Lévêque, Bordeaux, France, Boulogne-Billancourt Cedex, France, CHU BORDEAUX, Bordeaux, France

8:45 a.m. B-AB05 -04: Rates Of Complications During The Transvenous Lead Extractions: Insights From National Inpatient Sample Database
Anil Kumar Jonnalagadda, Sampath Gunda, MD, Aditya Saini, MD, Santosh K. Padala, MBBS, Jayanthi N. Koneru, MBBS, CCDS and Kenneth A. Ellenbogen, MD, FHR. Medstar Washington Hospital Center, Elkridge, DC, Virginia Commonwealth University, Henrico, VA, Virginia Commonwealth University, Richmond, VA, Virginia Commonwealth University, Glen Allen, VA, VCU Medical Center, Cardiology, Richmond, VA, VCU Medical Center, Richmond, VA

9 a.m. B-AB05 -05: Leadless Pacemaker Implant In Patients With Pre-existing Infections: Results From The Micra Post-approval Registry
Mikhael F. El-Chami, MD, FHR. Joss B. Johansen, MD, PhD, Amir M. Zaidi, MBChB, Svein Faerestrand, MD, PhD, Dwight W. Reynolds, MD, FHR. Javier Garcia-Seisdedos, MD, Jacques Mansourat, MD, Jean-Luc Pasguie, MD, PHD, Paul R. Roberts, MD, Kyoko Soejima, MD, Kurt Stromberg, MS and Jonathan P. Piccini, MD, MHS, FHR. Emory University, School of Medicine, Atlanta, GA, Odense University Hospital, Odense, Denmark, Manchester Heart Centre, Manchester Royal Infirmary, Manchester, United Kingdom, Haukeland Univ Hospital, Godvik, Norway, The Univ of Oklahoma College of Medicine, Univ of Oklahoma Sciences Center, Oklahoma City, OK, University Clinical Hospital of Santiago de Compostela, Santiago de Compostela, Spain, University Hospital of Brest, Brest, France, Centre Hospitalier Universitaire, Hopital Arnaud de Villeneuve, Pessac Cedex, France, University Hospital Southampton, Southampton, United Kingdom, Kyorin University School of Medicine, Tokyo, Japan, Medtronic, Mounds View, MN, Duke University Medical Center, EP, Durham, NC

9:15 a.m. B-AB05 -06: Global Pacemaker And Defibrillator Reuse: Meta-analysis Of Contemporary Controlled Trials
Suniti K. Sinha, MD, FHR. Bhraadev Sivasambu, MBBS, Jonathan Chrispin, MD, Andreas Barth, MD, PhD, John Rickard, MD, MPH, David Spragg, MD,
Session B-AB07. RISK STRATIFICATION AND PATIENT SELECTION FOR DEVICE THERAPY IN CARDIOMYOPATHY

**Cardiovascular Implantable Electronic Devices**

**Room 259** 8 - 9:30 AM

**Abstract**

**CME/CE Hours:** 1.5

**Session Description:** Many types of cardiac implantable electronic devices are available for use, but not every device can help every patient. This session helps us to select patients most likely to benefit from ICDs for SCD prevention, or from CRT devices for SCD prevention, or from CRT.

**Chairs:** Jaswinder S. Gill, MD, Guys/St. Thomas Hospital, London, England, United Kingdom

Michael J. Mirro, MD, FFRS, CCDS, Parkview Mirror Center, Fort Wayne, IN

**8 a.m. B-AB07-01:** Arrhythmic Course Of Arrhythmogenic Right Ventricular Cardiomyopathy Patients Without Implantable Defibrillators

Wei-jia Wang, MD, MPH, Julia Cadrin Tourigny, MD, Aditya Bhonsale, MD, Crystal Tichnell, MGC, Britney A. Murray, MS, Cynthia A. James, MS, PhD, Hanikrishna Tandri, MD and Hugh Calkins, MD, FFRS, CCDS. The Johns Hopkins University, Baltimore, MD, Johns Hopkins Hospital, Mars, PA, Johns Hopkins University, Baltimore, MD, Johns Hopkins Hospital/Division of Cardiology, Baltimore, MD, Johns Hopkins Hospital, Baltimore, MD

**8:15 a.m. B-AB07-02:** Outcomes Of Withholding Implantable Cardioverter In Patients With Coronary Heart Disease And Recovered Left Ventricular Function

Amir R Chaudhari, DO, Kanwar Yograj Singh, MD, Firas Zahwe, MD, Tadele W Tadele Mangesh, MS, Crystal Platz, NP, Bilal Omery, MD, Wassim Ballany, MD, Sathish Kodali, MD, M. Eymyan Mortada, MD, Jasbir Sra, MD, Masood Akhtar, MD and Indrajit Choudhuri, MD. Aurora Cardiovascular Services, Aurora Sinai/Aurora St. Luke's Medical Centers, Milwaukee, WI, ACS, Aurora Sinai/St. Luke's Med Ctrs, Univ Wisconsin School Med&Public Hlth-MCC, Milwaukee, WI, Aurora Research Institute, Milwaukee, WI, Aurora Cardiovascular Services, Aurora Sinai/St. Luke's Medical Centers, Univers, Milwaukee, WI

**8:30 a.m. B-AB07-03:** Non-invasive Risk Stratification Of Sudden Cardiac Death: Prospective Evaluation Of A Novel Ecg-based Restitution Marker In Patients With Ischaemic Cardiomyopathy

Shoab Siddiqui, MRCP, Will B. Nicolson, PhD, MRCP, Xin Li, PhD, Riyaz Somani, PhD, MRCP, Alastair Sandlunds, PhD, MRCP, Peter J. Stafford, MD, FRCP, Fernando S. Schindwein, DSc and G. Andre Ng, MBCHB, PhD. University of Leicester, Leicester, United Kingdom, University Hospitals of Leicester NHS Trust, Leicester, United Kingdom

**8:45 a.m. B-AB07-04:** Guidelines For And Response To Crt In Japanese Patients With A Narrow Qrs Complex

Hiroaki Mano, MD and Toshiko Nakai. Nihon University Itabashi Hospital, Japan

**9 a.m. B-AB07-05:** Association Of Body Mass Index With Cardiac Resynchronization Therapy Intention And Success

Marin Nishimura, MD, Gregory M. Marcus, MD, FFRS, Paul D. Varosy, MD, Haikun Bao, PhD, Yongfei Wang, MS, Jeptha Curtis, MD and Jonathan C. Hsu, MD, FFRS, University of California, San Diego, San Diego, CA, Univ of California, San Francisco, Medicine, Div of Cardiology, Cardiac EP, San Francisco, CA, VAECHCS/University of Colorado, Denver, CO, Yale University School of Medicine, New Haven, CT, Yale University, New Haven, CT, University of California, San Diego, Cardio Electrophysiology Section, La Jolla, CA

**9:15 a.m. B-AB07-06:** Contribution Of Left Atrial Function To Prediction Of Sudden Cardiac Death In Primary Prevention implantable Cardioverter-defibrillator Candidates

Susumu Tao, MD, PhD, Hiroshi Ashikaga, MD, PhD, FFRS, Luisa Ciufo, MD, Konstantinos N. Aronis, MD, Joao AC. Lima, Robert Weiss, MD, Gordon F. Tomaselli, MD, FFRS and Katherine C. Wu, MD. Johns Hopkins University, Baltimore, MD, Johns Hopkins Hospital, Baltimore, MD, Johns Hopkins, Baltimore, MD, Johns Hopkins Hospital, Columbia, MD, Johns Hopkins Univ, Div of Cardiology, Baltimore, MD

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8:30 a.m. **B-AB04 -03:** Atrio-ventricular Synchronous Pacing With A Leadless Ventricular Pacemaker: A Case Study

Surinder Kaur Khelae, MBBS, FHRS, Azlan Hussin, MBBS, MRCGP, Todd J. Sheldon, MSBE, Vincent Spletts, MS, Mark K. Erickson, BS, CCDS, Sheikh Abdul Aziz, BSc and Larry A. Chinitz, MD, FHRS. Institut Jantung Negara, Selangor, Malaysia, General Hospital Linz, Linz, Austria, University Hospital of Bordeaux, Hopital Du Haut Leveque, Pessac 33600, France, National Heart Institute, Kuala Lumpur, Malaysia, General Hospital Linz, Linz, Austria, University Hospital of Pisa, Pisa, Italy

Abstract Commentator

Jayanthi N. Koneru, CCDS, Pugazhendhi Vijayaraman, MD, FHRS, Gopi Dandamudi, MD, FHRS, Parikshit S. Sharma, MD, MPH, Virginia Commonwealth University, Richmond, VA, Rush University Medical Center, Chicago, IL, Medtronic, Inc, Minneapolis, MN, Medtronic, Minneapolis, MN, Medtronic, Petaling Jaya, Malaysia, NYU Langone Health, New York, NY

8:45 a.m. **B-AB04 -04:** A Novel, Simple And Accurate Method For Assessment Of His Bundle Pacing Morphology Using Near Field And Far Field Device Electrograms

Aditya Saini, MD, Nicholas J. Serafini, MD, Shawn Campbell, MS, William B. Waugh, BS, Ryan Zimber, BSN, CCRN, RN, Todd J. Sheldon, MSBE, Jordania Kron, Gautham Kalahasty, Santosh K. Padala, MBBS, Richard G. Trohman, MD, FHRS, Richard K. Shepard, MD, Jayanthi N. Koneru, MBBS, CCDS, Kenneth A. Ellenbogen, MD, FHRS and Parikshit S. Sharma, MD, MPH, Virginia Commonwealth University, Richmond, VA, Rush University Medical Center, Chicago, IL, Medtronic, NC, Medtronic, CRDM, Midlothian, VA, Medtronic, Inc, Minneapolis, MN, Virginia Commonwealth University, Virginia Commonwealth Univ Med, Richmond, VT, Virginia Commonwealth University, Glen Allen, VA, Medical College of Virginia Hospital, Cardiac EP, Richmond, VA, VCU Medical Center, Cardiology, Richmond, VA, VCU Medical Center, Richmond, VA

9 a.m. **B-AB04 -05:** Differential Effect Of Stimulation Parameters With His Bundle Pacing In Humans: Evidence For Electric Field And Voltage Effect On Resolution Of Acute And Chronic Conduction Block In His Purkinje System

Rehan Mahmud, MD, Kim Heath, RCIS, Tamara R. Miller, BS and Jenifer N. Moceri, BS. McLaren Bay Region, Freeland, MI

9:15 a.m. Abstract Commentator

Leonard I. Ganz, MD, FHRS, HVHS Heart and Vascular Center, Beaver, PA

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8:45 a.m.  **B-AB06 -04**: His-Bundle Pacing In Infranodal Conduction Disturbances; Feasibility And Electrocardiographic Findings
Shinji Mito, PhD, Yui Murakoa, PhD, Mai Fujiwara, Yasutsumu Nagamoto and Yasuhiko Hayashi. Tsushiya General Hospital, Hiroshima, Japan

9 a.m.  **B-AB06 -05**: Correlation Of His Bundle Pacing Lead-tip Location To Selective Vs Nonselective His Capture: An Imaging Study
Ragesh Panikkath, MD, Terry Bauch, MD, Angela Naperkowski, RN and Pugazhendhi Vijayaraman, MD. Geisinger Heart Institute, Wilkes Barre, PA, Geisinger Wyoming Valley Medical Center, Wilkes-Barre, PA, Geisinger Health System, Geisinger Wyoming Valley Medical Center, Wilkes-Barre, PA

9:15 a.m.  Abstract Commentator
Daniel L. Lustgarten, MD, PhD, F H R S. The University of Vermont Medical Center, Burlington, VT

**Session B-AB10. ESOPHAGEAL INJURY AND PROTECTION DURING CATHETER ABLATION OF AF Catheter Ablation**

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Valay K. Parikh, MD, Jacob D. Hantla, BSBME, MS, CRNA, FHRS, CCDS, Vijendra Swarup, MD, FHRS, Venkat Vuddanda, Bharath Yarlagadda, MD, Madhu Reddy, MD, FHRS, Raghuvir Dendi, MD, FHRS, Seth H. Sheldon, MD, FHRS, Martin Emert, MD, FHRS, Rhea C. Pimentel, MD, FHRS, Donita Atkins, BS, BSN, Sudha Bomanna, Sanghamitra Mohanty, MD, FHRS, Jayasree Pilliarisetty, MD, Rakesh Gopinathannair, MA, MD, FHRS, Rakesh Gopinathannair, MA, MD, FHRS, Rakesh Gopinathannair, MA, MD, FHRS, Luigi Di Biase, MD, PhD, FHRS, Andrea Natale, MD, FHRS and Dhanunjaya R. Lakireddy, MD, FHRS. Kansas University Medical Center, Overland Park, KS., Chandler, AZ, Arizona Heart Rhythm Center, Paradise Valley, AZ, CVRI/KUMC/ Cardiac Electrophysiology, Kansas City, KS, Kansas University Medical Center, Kansas City, KS, University of Kansas Health System, Overland Park, KS, University of Kansas Hospital, Kansas City, KS, University of Kansas Hospital, Prairie Village, KS, The University of Kansas Hospital, Kansas City, KS, Mid-American Cardiology, University of Kansas Medical Center, Kansas City, KS, University of Kansas Hospital, Olathe, KS, St. David's Medical Center, Austin, TX, UT health San Antonio, San Antonio, TX, University of Louisville School of Medicine, Cardiology/EP, Louisville, KY, Albert Einstein College of Medicine at Montefiore Hospital, New York, NY, Texas Cardiac Arrhythmia Institute at St. David's Medical Center, Austin, TX, Mid-America Cardiology Associates, University of Kansas Health System, Kansas City, KS

8:15 a.m.  B-AB08 -02: Impact of High-power Short-duration Radiofrequency Application On Lesion Size And Temperature Profile. Ex Vivo And In Vivo Study Mitsuru Takami, MD, PhD, Ryudo Fujimura, Doctor, Yoichi Kijima, MD, PhD, Ryoji Nagoshi, MD, PhD, Amane Kozuki, MD, PhD, Yasuhide Mochizuki, MD, PhD, Hiroyuki Shibata, MD, Yusuke Fukuyama, MD, Daichi Fujimoto, MD, Shunsuke Kakizaki, MD, Eri Masuko, MD, Shoukan Kyo, MD, Tomohiro Miyata, MD and Junji Shiite, MD, PhD. Osaka Saiseikai Nakatsu Hospital, Osaka, Japan, Osaka, Japan

8:30 a.m.  B-AB08 -03: Lesion Formation With High Vs Low Irrigation Flow Of Force Sensing Catheter In Atrial Fibrillation Ablation: Lessons From LGE-MRI Mihail G. Chelu, MD, PhD, FHRS, Alan Morris, MS, Eugene G. Kholmovski, PhD, Gagandeep Kaur and Nassir F. Marrouche, MD, FHRS. University of Utah School of Medicine, Cardiovascular Medicine Division, Salt Lake City, UT, Comprehensive Arrhythmia and Research Management (CARMA) Center, Salt Lake City, UT, University of Utah, Salt Lake City, UT, CARMA Center, Sandy, UT, Univ of Utah Health Sciences Center, Div of Cardiology, Salt Lake City, UT

8:45 a.m.  B-AB08 -04: A Novel Irrigated Expandable Lattice Electrode Ablation Catheter Produces Deep Radiofrequency Lesions With Low Risk of Steam Pop or Thrombus Pop Atsushi Ikeda, MD, PhD, Hiroshi Nakagawa, MD, PhD and Warren M. Jackman, MD, FHRS. Univ of Oklahoma Health Sciences Center, Heart Rhythm Institute, Oklahoma City, OK, Heart Rhythm Institute @ Univ of Oklahoma Health Sciences Center, Oklahoma City, OK

9 a.m.  B-AB08 -05: Multicentre Prospective Randomised Trial Comparing Conventional Versus Contact Force And Electrical Coupling Index In Atrial Fibrillation Ablation (VERISMA RTrial) Gordon A. Beggs, MBChB, James O'Neill, Syed M. Sohailb, MBBS, BSc, Alisa McLean, BS, Lee Graham, MBChB, PhD, Andrew J. Hogarth, MBChB, PhD, Stephen P. Page, MBBS B.Med.Sci, Chris Pepper, MD, Richard Gillott, Nicola J. Hill, BS, Jacqueline Walshaw, Richard J. Schilling, MD, Prapa Kanagaratnam, MD, PhD and Muzahir H. Tayebjee, MBChB, MD. Leeds General Infirmary, Leeds, United Kingdom, Imperial College London, London, United Kingdom, St Bartholomew's Hospital, London, United Kingdom, Leeds Teaching Hospitals NHS Trust, Leeds, United Kingdom, Barts and the London NHS Trust, London, United Kingdom, Leeds General Hospital, Non-Invasive Unit, Leeds, United Kingdom, St. Bartholomew's Hospital, London, United Kingdom, Imperial College Healthcare, St Mary's Hospital, Cardiology, London.
Session B-AB09. THE PULMONARY VEINS AND BEYOND AS TARGETS IN CATHETER ABLATION OF AF

**Catheter Ablation**

**Room 153**

**8 - 9:30 AM**

**Abstract Plus**

**CME/CE Hours:** 1.5

**Session Description:** This session will describe how modern techniques for durable PVI influence AF recurrence and provides insight into ablation targets outside the PVs.

**Chairs:**

- Mark D. O'Neill, MBChe, FHRSt. Thomas' Hospital, Cardiorespiratory Centre, London, United Kingdom
- Samuel Levy, MD, ECAS, Marseille, France

**8 a.m.**

**B-AB09 -01:** The Effect Of Catheter Ablation On Visualized Sympathetic Innervation Activity Patterns By Iodine-123 Meta-Iodobenzylguanidine In Patients With Atrial Fibrillation

Alexander B. Romanov, Stanislav Minin, MD, Christopher Breault, BS, Nikita Nikitin, Vitaliy Shabanov, MD, Igor Mikheenko, MD, Denis Losik, MD, Dmitry Elesin, MD, Ilya Stenin, MD, Jim Stirrup and Pokushalov Evgeny, MD, PhD, FHRSt. E. Meshalkin Dmitry Elesin, MD, Ilya Stenin, MD, Jim Stirrup and Pokushalov Evgeny, MD, PhD, FHRSt. E. Meshalkin Dmitry Elesin, MD, Ilya Stenin, MD, Jim Stirrup and Pokushalov Evgeny, MD, PhD, FHRSt. E. Meshalkin Dmitry Elesin, MD, Ilya Stenin, MD, Jim Stirrup and Pokushalov Evgeny, MD, PhD, FHRSt. E. Meshalkin Dmitry Elesin, MD, Ilya Stenin, MD, Jim Stirrup and Pokushalov Evgeny, MD, PhD, FHRSt. E. Meshalkin Dmitry Elesin, MD, Ilya Stenin, MD, Jim Stirrup and Pokushalov Evgeny, MD, PhD, FHRSt. E. Meshalkin

**8:15 a.m.**

**B-AB09 -02:** Ganglion Plexus Ablation For Advanced Atrial Fibrillation: 2-years Results Of The Afaet Study

Jolien Neefs, MD, Wouter R. Berger, MD, Sebastien P. Krul, M.D., Elise M. van Praag, No Degree, Nicole van den Berg, Femke Piersma, Jonas De Jong, WimJan P. van Boven, Antoine H.G. Driessen, MD and Joris R. de Groot, MD, PhD. Academic Medical Center, Amsterdam, Netherlands, Amsterdam Medical Centre, Amsterdam, Netherlands, AMC, Amsterdam, Netherlands

**8:30 a.m.**

**B-AB09 -03:** Tailored Ablation Strategy Guided By Continuous Wavelet Transform Analysis And Voltage Map Benefits The Patients With Persistent Atrial Fibrillation

Shinsuke Iwai, MD, Koji Higuchi, MD, Chisashi Toya, MD, Hirotaka Muramoto, MD, Hiroshi Tsunamoto, MD, Takanobu Ozawa, MD, Keiko Araki, MD, Kuniai Nakano, MD, Takayuki Ohnishi, MD, Isshi Kobayashi, MD, Yuko Ohnishi, MD, Yasuhiro Sato, MD, Shigeo Umezawa, MD, Akihiro Niwa, MD, Yasuhiro Yokoyama, MD and Kenzo HiraO, MD. Hiratsuka Kyosai Hospital, Kanagawa, Japan, St. Luke's International Hospital, Tokyo, Japan, Tokyo Medical and Dental University, Tokyo, Japan

**8:45 a.m.**

**B-AB09 -04:** Freedom From Af After Total Left Atrial Isolation In Patients With Large Areas Arrhythmia Substrate

Yan Huo, MD, PhD, Mads Brix. Kronborg, MD, PhD, Stefan Ulbrich Ulbrich, Angela Zedda, Julia Mayer Mayer, Liying Pu, Jianping Guo, Utz Richter, Judith Sitzy, Thomas Gaspar and Christopher Piorkowski, MD. Herzzentrum Dresden, Dresden, Germany, Aarhus Universitets Hospital Skejby, Aarhus N, Denmark

**9 a.m.**

**B-AB09 -05:** Contact-force Sensing Technology Improves Long-term Clinical Outcomes After A First Pulmonary Vein Isolation Procedure - A Propensity Score Analysis

Joao Mesquita, MD, MSc, Diogo Cavaco, MD, Antonio M. Ferreira, MD, Elisabete Vaz, CEPs, Francisco M. Costa, MD, Pedro Carmo, MD, Francisco Morgado, MD, Miguel Mendes, MD and Pedro Adragao, MD, PhD. Hospital de Santa Cruz, Portugal

**9:15 a.m.**

**Abstract Commentator**

Oussama M. Wazni, MD, FHRSt. Thomas' Hospital, Cardiorespiratory Centre, London, United Kingdom

**Session B-AB11. VT ABLATION: NOVEL APPROACHES AND INDICATIONS**

**Catheter Ablation**

**Room 157**

**8 - 9:30 AM**

**Abstract Plus**

**CME/CE Hours:** 1.5

**Session Description:** TBD

**Chairs:**

- L. Lee Eckhardt, MD, FHRSt. Thomas' Hospital, Cardiorespiratory Centre, London, United Kingdom
- Jesus Almendral, MD. HOSPITAL MONTEPRINCIPE, Medical School and Public Health, Madison, WI
- L. Lee Eckhardt, MD, FHRSt. Thomas' Hospital, Cardiorespiratory Centre, London, United Kingdom

**8 a.m.**

**B-AB11 -01:** Feasibility Of Ventricular Tachycardia (VT) Ablation Guidance For Patients With Myocardial Infarction (MI) Using A Personalized Virtual-heart Platform

Adityo Prakosa, PhD, Dongdong Deng, PhD, Plamen Nikolov, MSc, Harikrishna Tandri, MD, Ronald D. Berger, MD, PhD, FHRSt. Thomas' Hospital, Cardiorespiratory Centre, London, United Kingdom, The Johns Hopkins Hospital, Baltimore, MD, Johns Hopkins University, Baltimore, MD, The Johns Hopkins Hospital, Baltimore, MD, Johns Hopkins Univ, Div of Biomedical Engineering, Baltimore, MD

**8:15 a.m.**

**B-AB11 -02:** Cerebral Protection During Catheter Ablation Of Ventricular Tachycardia In Patients With Ischemic Heart Disease

Christian H. Heeger, MD, Andreas Metzer, MD, Michael Schlüter, PhD, Andreas Rillig, ACNP, Shibu Mathew, MD, Maria E. Romero, MD, Renu Virmani, MD, Thomas Fink, MD, Bruno Reissmann, MD, Christine Lemes, Tilman Maurer, Francesco Santoro, MD, Tobias Schmidt, MD, Christian Frerker, MD, Alexander
Session B-AB14. ATRIAL FIBRILLATION: NEW MECHANISTIC INSIGHTS

Clinical Electrophysiology Room 109 8 - 9:30 AM Abstract F CME/CE Hours: 1.5

Session Description: This session will offer unique insights into the pathophysiology of AF

Chairs: Hiroshi Nakagawa, MD, PhD. Heart Rhythm Institute @ Univ of Oklahoma Health Sciences Center, Oklahoma City, OK
Laurent Macle, MD, FHRS. Montreal Heart Institute, Montreal, QC, Canada

8 a.m. B-AB14 -01: Left Pulmonary Vein-dependent Electrophysiological Heterogeneity Underlies Localized Reentry And Atrial Fibrillation Provoked By Single Extra Stimulation: Implications Of Anatomical Characteristics In Electrophysiology
Masahide Harada, MD, PhD, Yuji Motoike, MD, Asami Fujiwara, Jun Takeda, Masayuki Koshikawa, MD, Tomohide Ichikawa, MD, PhD, Ichiro Watanabe, MD, PhD and Yukio Ozaki, MD, PhD. Fujita Health University, Toyoake, Japan

8:15 a.m. B-AB14 -02: Atrial Arrhythmias In Patients With Arrhythmogenic Right Ventricular Cardiomyopathy: Prevalence, Mechanisms And Treatment
Ricardo Cardona Guarache, MD, MPH, Meriam Äström-Aneg, MD, Liviu Klein, MD, Adam Oesterle, MD, Yana Svetlichnaya, MD, Roshini Asirvatham, Gregory M. Marcus, MD, Edward P. Gerstenfeld, MD, FHRS and Melvin M. Scherlag, MD. University of California, San Francisco, San Francisco, CA, Linköping University, Linköping, Sweden, University of California, San Francisco, Larkspur, CA

8:30 a.m. B-AB14 -03: Timing, Incidence, And Prognostic Impact Of Atrial Fibrillation After Percutaneous Or Surgical Revascularization For Left Main Disease: Analysis From The Excel Trial
Ioanna Kosmidou, MD, PhD, Björn Redfors, MD, PhD, Shmuel Chen, MD, PhD, Ari Piet, Kappetein, MD, PhD, Patrick W. Serruys, MD, PhD, Bernard J. Gersh, MBCHB, DPHIL, John D. Puskas, MD, David A. Kandzari, David P. Taggart, Marie-Claude Morice, Pawel E. Buszman, Andrezj Bochenek, Erick Schampaert, Pierre Page, MD, Joseph Sabik, McAndrew Thomas, OH, Ben-Yehuda and Gregg W. Stone. St. Francis Hospital and Cardiovascular Research Foundation, New York, NY, Cardiovascular Research Foundation, New York, NY, Thoraxcenter, Erasmus MC, Rotterdam, Netherlands, Imperial College of Science, Technology and Medicine, London, United Kingdom, Mayo Clinic, Cardiovascular Div, Rochester, MN, Icahn School of Medicine at Mount Sinai, New York, NY, Piedmont Heart Institute, Atlanta, GA, Ramsay Générale de Santé, Hopital Privé Jacques Cartier, Massy, France, Medical University of Silesia, Katowice, Poland, Cardiovascular Research Foundation, Katowice, Poland, Hôpital du Sacré-Coeur de Montréal, Quebec, QC, Canada, Universite De Medicine, Itabashi-ku, Tokyo, Japan, Nihon University School of Medicine, Tokyo, Japan, Tokyo, Japan, Nihon University School of Medicine, Tokyo, Japan, Nihon University School of Medicine, Tokyo, Japan, Nihon University, Tokyo, Japan.

8:45 a.m. B-AB14 -04: Is A Vagal Response During Left Atrial Ganglionated Plexi Stimulation A Physiological Phenomenon?–Comparison Between Patients With And Without Atrial Fibrillation–
Yasuo Okumura, MD, PhD, Ichiro Watanabe, MD, PhD, Koichi Nagashima, MD, PhD, Kazuki Iss, MD, Keiko Takahashi, M.D., Masaru Arazi, Ryuta Watanabe, MD, Sayaka Kurokawa, Yuji Wakamatsu, MD, Kimie Okhudo, MD, Toshiko Nakai, MD and Atsushi Hirayama, MD, PhD. Division of Cardiology, Department of Medicine, Nihon University School of Medicine, Tokyo, Japan, Nihon University School of Medicine, Tokyo, Japan, Nihon University School of Medicine, Tokyo, Japan, Nihon University School of Medicine, Tokyo, Japan, Nihon University, Tokyo, japan.

8:45 a.m. B-AB14 -05: Differences In Atrial Size And Metabolism On FDG/PET Imaging In Patients With Sinus Rhythm, Paroxysmal And Persistent Atrial Fibrillation
Michael Ghanam, MD, Hong Jun Yun, MD, John J. Lazarus, MD, PhD, Matthew Konerman, MD, Ashraf Saleh, MD, Ravi V. Shah, MD, Richard Weinberg, MD, FD and Yukio Ozaki, MD, PhD. Fujita Health University, Toyoake, Japan
AF AND ENSUING COMPLICATIONS
Room 162  8 AM - 9:30 AM  Clinical Electrophysiology
Session B-AB13. PREDICTION AND PREVENTION OF AF AND ENSUING COMPLICATIONS
Clinical Electrophysiology
Room 162  8 AM - 9:30 AM  Abstract
CME/CE Hours: 1.5
Session Description: This session explores conditions associated with or predisposing to atrial fibrillation providing the learner with a better understanding of the physiology and management of the atrial patient.

Chairs:  Cynthia M. Tracy, MD. George Washington Univ Medical Center, Dept of Cardiology, Washington, DC
David Conen, MD, MPH. McMaster University, Hamilton, Canada, Hamilton, ON, Canada

8 a.m.  B-AB13 -01: Atrial Fibrosis Is Associated With Embolic Stroke Of Unknown Source (ESUS) Independent Of Atrial Fibrillation
Karman Tandon, MD, MPH, David Tirschwell, MD, William Longstreth, MD, Smith Byrn, MS and Nazem Akoum. University of Washington, Seattle, WA, University of Washington

8:15 a.m.  B-AB13 -02: Atrial Fibrillation And Brain Imaging Abnormalities: The Atherosclerosis Risk In Communities Study
Jeremy P. Berman, MD, Faye L. Norby, MPH, Thomas Mosely, PhD, Elsayed Z. Soliman, MD, MSc, Alvaro Alonso, MD, PhD and Lin Y. Chen, MD, MSc. University of Minnesota Medical Center, Minneapolis, MN, University of Minnesota Medical Center, Jackson, MS, Wake Forest School of Medicine, Winston-Salem, NC, Emory University Rollins School of Public Health, Atlanta, GA

8:30 a.m.  B-AB13 -03: Regular Alcohol Consumption Is Associated With Impaired Atrial Mechanical Function In The Atrial Fibrillation Population: A Prospective MRI-based Study

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Cardiomyopathy and No Late Gadolinium Enhancement Undergoing Catheter Ablation of Ventricular Tachycardia
Simon A. Castro, MD, Daniele Muser, MD, Jackson J. Liang, DO, Gaetano Nuñofora, MD, Andres Enriquez, MD, Silvia Magnani, MD, Sanjay Dixit, MD, FHRS, David Lin, MD, Gregory E. Supple, MD, FHRS, Robert D. Schaller, DO, David S. Frankel, MD, FHRS, Rajat Deo, MD, David J. Callians, MD, FHRS, CCDS, Benoit Desjardins, MD, PhD, Francis E. Marchlinski, MD, FHRS and Pasquale Santangeli, MD, Hospital of the University of Pennsylvania, Philadelphia, PA, University Hospital of Udine, udine, UD, Italy, Kingston General Hospital, Kingston, ON, Canada, Hosp. of Univ of Pennsylvania, WYNNEWOOD, PA, Hospital of Univ of Pennsylvania, Cardiology, Philadelphia, PA, Hospital of the University of Pennsylvania, Cardiovascular Division, Philadelphia, PA, University of Pennsylvania, Philadelphia, PA, Hospital of University of Pennsylvania, Cardiology, Philadelphia, PA, Hospital of the Univ of Pennsylvania, Washington Crossing, PA, Hospital of the University of Pennsylvania, Cardiac Electrophysiology, Bala Cynwyd, PA

8:15 a.m.
B-AB15 -02: Regular Alcohol Consumption Reduces Diffuse Ventricular Fibrosis: Insights Into The Potential Cardiac Benefits Of Alcohol From CMR T1 Mapping
Alexandr Voskoboinik, MBBS, FRACP, Benedict T. Costello, Jeremy William, Elana Kalman, Jason Bloom, Sandeep Prabhu, Michael D. Flannery, Geoff Wong, Chrishan J. Nailliah, Hanharan Sugumar, Andre La Gerche, Andrew J. Taylor, Jonathan M. Kalman, MBBS, PhD, FHRS and Peter M. Kistler, MBBS, PhD, Royal Melbourne Hospital / The Alfred / Baker Heart & Diabetes Institute, Melbourne, Australia, The Alfred / Baker Heart & Diabetes Institute, Melbourne, Australia, The Alfred, Melbourne, Australia, Alfred Hospital and Baker IDI Heart and Diabetes Institute, Clinical EP and Res, Hughesdale, Australia, Baker Heart & Diabetes Institute, Melbourne, Australia, Royal Melbourne Hospital / Baker Heart & Diabetes Institute, Melbourne, Australia, Royal Melbourne Hospital, Melbourne, VIC, Australia

8:30 a.m.
B-AB15 -03: Correlation Between Electrocardiographic Repolarization Heterogeneity And The Degree Of Myocardial Fibrosis Among Victims Of Ischemic Sudden Cardiac Death
Tuomas Kenttä, MSBME, PhD, Lauri Holmström, BM, Mira Anette Haukilahdi, BM, Heikki V. Huikuri, MD and Juhani Junttila, MD, PhD, University of Oulu, Tupos, Finland, University of Oulu, Oulu, Finland, The University of Oulu, MRC Oulu, Oulu, Finland, Medical Research Center - University Hospital of Oulu, Oulu, Finland

8:45 a.m.
B-AB15 -04: Unique Early Repolarization Electrocardiogram Pattern In Patients With Acute Myocarditis -Evidence Of Epicardial Localized Myocardial Inflammation-
Eiichiro Oka, MD, Yu-ki Iwasaki, MD, Yujin Maru, MD, Yuhi Fujimoto, MD, Kanako Hagihara, MD, Kenta Takahashi, MD, Hiroshi Hayashi, MD, Tepppei Yamamoto, MD, Kenji Yodogawa, MD, Meiso Hayashi, MD and Wataru Shimizu, MD, PhD, Nippon Medical School, Tokyo, Japan, Mabori Medical Clinic, Yokosuka, Japan

9 a.m.
B-AB15 -05: Prognosis Of Cardiac Sarcoidosis In Patients With Implantable Cardioverter Defibrillator - Histological Diagnosis Versus Clinical Diagnosis-
Miyo Nakano, Yusuke Kondo, MD, PhD, Masahiro Nakano, Keitaro Senoo, Tomohiko Hayashi, Ryo Ito and Yoshio Kobayashi, Department of Cardiovascular Medicine, Chiba University Graduate School of Medicine, Chiba, Japan, Chiba University Graduate School of Medicine, Chiba, Japan, Department of Advanced Cardiovascular Therapeutics, Chiba University Graduate School of Medicine, Chiba, Japan
Abstract Commentator
Saurabh Kumar, MD, PhD. Westmead Hospital, University of Sydney, Westmead, NS, Australia

Session B-AB12, NEW APPROACHES FOR SUDDEN DEATH RISK STRATIFICATION
Clinical Electrophysiology
Room 205A 8 - 9:30 AM
Abstract Plus F
CME/CE Hours: 1.5

Session Description: Come hear the latest updates regarding how to effectively risk stratify patients with Brugada syndrome, LQTS, ARVC, HCM and more!

Chairs:
Ronald D. Berger, MD, PhD, FHRS. The Johns Hopkins Hospital, Baltimore, MD
Michael H. Gollob, MD, Toronto General Hospital, University of Toronto, Toronto, ON, Canada

8 a.m.
Julia Cadrin-Tourigny, MD, MSC, Laurens P. Bosman, MD, MSc, Michael Rhys Morris, MD, PhD, MRC Oulu, Oulu, Finland, The Alfred, Melbourne, Australia, Alfred Hospital and Baker IDI Heart and Diabetes Institute, Melbourne, Australia, The Alfred School, Tokyo, Japan, Mabori Medical Clinic, MD and Wataru Shimizu, MD, PhD, Nippon Medical School, Tokyo, Japan, Mabori Medical Clinic, Yokosuka, Japan

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8:15 a.m.  B-AB12 -02: Arrhythmic Outcomes In Cardiac Arrest Survivors With Preserved Ejection Fraction Registry (CASPER)

Christopher Cheung, MD, Zachary Laksman, MD, MS, Jason D. Roberts, MD, Martin S. Green, MD, Jeffrey S. Healey, MD, FHRS, Shubhayan Sanatani, MD, FHRS, CCDS, Laura Arbour, MD, Richard A. Leather, MD, Vijay S. Chauhan, MD, Christian Steinberg, MD, Paul Angaran, Henry J. Duff, MD, Santabhanu Chakrabarti, MD, Christopher S. Simpson, MD, Mario Talajic, MD, Rafik Tadros, MD PhD, Colette M. Seifer, MD, BCH, CCDS, Martin J. Gardner, MD and Andrew D. Krahm, MD, FHRS, University of British Columbia, Vancouver, BC, Canada, Cardiac Electrophysiology, Vancouver, BC, Canada, Western University Medical Center, London, ON, Canada, Univ of Ottawa Heart Institute, Ottawa, ON, Canada, Hamilton Health Sciences, Hamilton, ON, Canada, Children's Heart Centre, Vancouver, BC, Canada, UBC Medical Genetics, Victoria, BC, Canada, Western Cardiology, Victoria, BC, Canada, University Health Network - Toronto General Hospital, Toronto, ON, Canada, 2725, Quebec, QC, Canada, Toronto General Hospital, Toronto, ON, Canada, Univ of Calgary, Cardiology, Calgary, AB, Canada, St Paul's Hospital Vancouver, Vancouver, BC, Canada, BC, Canada, Kingston General Hospital - Queen's Univ, Kingston, ON, Canada, Montreal Heart Institute, Montreal, QC, Canada, Academic Medical Center, Amsterdam, Netherlands, St. Boniface General Hospital, Winnipeg, MB, Canada, Dalhousie Univ, Halifax, NS, Canada, Sauder Family and Heart & Stroke Foundation of BC, Vancouver, BC, Canada

8:30 a.m.  B-AB12 -03: Incidence And Outcomes Of Ventricular Arrhythmia In Septal And Apical Hypertrophic Cardiomyopathy: The French-Canadian Experience

Charles Nadeau-Routhier, MD, FRCP, Philippe André, MD, MSc, Jean Champagne, MD, FRCP, François Philippon, MD, FRCP, Jean-François Sarrazin, MD, FRCP, Isabelle Nault, MD, FRCP, Gilles O'Hara, MD, FRCP, Louis Blier, MD, FRCP, Franck Molin, MD, FRCP, Benoit Plourde, MD, FRCP, Karine Roy, MD, FRCP, Eric Larose, MD, FRCP, Marie Arsenaault, MD, FRCP and Christian Steenberg, MD, FRCP. Quebec Heart and Lung Institute (affiliated to Laval University), Quebec, QC, Canada

8:45 a.m.  B-AB12 -04: Electrophysiology Study Predicts Arrhythmic Risk In Patients With Cardiac Sarcoidosis And Abnormal Cardiac Imaging

David Robert. Okada, MD, John Smith, MD, Arsalan Derakhshan, MD, Zain Gowani, MD, Satish K. Misra, MD, Sunjeet Sidhu, MD, Fabrizio R. Assis, MD, Ali Keramati, MD, Ronald D. Berger, MD, PhD, FHRS, Hankrishna Tandri, MD and Jonathan Chrispin, MD. Johns Hopkins Hospital, Baltimore, MD, Johns Hopkins University, Baltimore, MD, Johns Hopkins University School of Medicine, Parkville, MD, The Johns Hopkins Hospital, Baltimore, MD

9 a.m.  B-AB12 -05: Risk Stratification Of Patients With Brugada Syndrome: Risk Score Accuracy

Jean Baptiste Gourraud, MD, PhD, Soraya Anys, Nathalie Behar, MD, Dominique Babuty, MD, PhD, Jacques Mansourati, MD, Beatrice Guyomarch', MASc, Aurélie Thollet, PharmD, PhD, Philippe Mabo, Frederic Sacher, MD and VINCENT PROBST, MD. Chu Nantes, Nantes, France, Chu Rennes, Rennes, France, Chu Tours, Tours, France, University Hospital of Brest, Brest, France, CH Pontchaillou, Rennes, France, LIRYC Institute/ Bordeaux University Hospital, Bordeaux, France, CHU DE NANTES, NANTES, France

9:15 a.m.  Abstract Commentator

William J. McKenna, MD. Institute of Cardiovascular Science, London, United Kingdom

Session B-AB18. ARRHYTHMIAS IN END-STAGE HEART FAILURE PATIENTS: INCIDENCE, IMPACT, AND TREATMENT STRATEGIES

Heart Failure Room 210C 8 - 9:30 AM

CME/CE Hours: 1.5

Session Description: The session will review data on the incidence/prevalence of atrial and ventricular arrhythmias in patients with LVADs. The impact on patient outcomes as well as treatment strategies will be presented. Finally, the impact of ICD

Chairs:  Ratika Parkash, MD, MS, FHRS, QEIIL Health Sciences Center - Dalhousie Univ, Halifax, NS, Canada, Guillaume Olivier, MD, Case Western Reserve Univ/Univ Hospitals Case Medical Center, Cleveland, OH

8 a.m.  B-AB18 -01: Atrial Arrhythmias And Clinical Outcomes In Continuous Flow LVAD Recipients: A Multicenter Analysis

Rakesh Gopinathan, Jaimin Trivedi, MD, MPH, Adarsh K. Bhan, MD, FHRS, Ashvin Ravichandran, MD, Mustafa Ahmed, MD, Geetha Bhat, MD, Jennifer
Session B-AB18 -03: Atrial Tachyarrhythmias Among Patients With Left Ventricular Assist Devices: Prevalence, Clinical Outcomes, And Impact Of Rhythm Control Strategies

Andrew Noll, MD, Joseph Adewumi, MD, Ram Amuthan, MD, Carl Gillombresdo, MD, Zariyat Mannan, MD, Randall C. Starling, MD, Edward Sotlesz, MD, MPH and Daniel J. Cantillon, MD, MPH, Daniel J. Cantillon, MD, MPH.

8:45 a.m.

Session B-AB18 -04: Role Of Implantable Cardioverter Defibrillator In End-stage Heart Failure Patients Listed For Transplant In The Continuous Flow Left Ventricular Assist Device Era

Jaimin Trivedi, MD, MPH, Mark Slaughter, MD, Raj Vijaykhrishnan, MD and Rakesh Gopinathannair, MA, MD, FHRs. University of Louisville, Louisville, KY, University of Louisville School of Medicine, Cardiology, EP, Louisville, KY.

9 a.m.

Session B-AB18 -05: Impact Of Sustained Ventricular Arrhythmias On Outcomes In Patients Listed For Heart Transplant

Jaimin Trivedi, MD, MPH, Mark Slaughter, MD, Emma Birks, MD and Rakesh Gopinathannair, MA, MD, FHRs. University of Louisville, Louisville, KY, University of Louisville School of Medicine, Cardiology, EP, Louisville, KY.

9:15 a.m.

Session B-AB18 -06: Continued CRT Versus Turning Off LV Lead After Left Ventricular Assist Device Implant: A Multicenter Experience

Henri Roukodz, MD, FHRs, Neeraj Sathnur, MD, Adarsh K. Bhan, MD, FHRs, Ashvin Ravichandran, MD, Mustafa M. Ahmd, MD, Geetha Bhat, MD, Cowger Jennifer, MD, Munazzah Abdallah, MD, Rahul Dhawan, MD, Jaimin Trivedi, MD, MPH, Mark S. Slaughter, MD and Rakesh Gopinathannair, MA, University of Minnesota, Cardiology, Electrophysiology, Edina, MN, University of Minnesota, Minneapolis, MN, Advocate Heart Vascular Institute, Orland Park, IL, St. Vincent Heart Center, Indianapolis, IN, University of Florida, Gainesville, FL, Advocate Christ Medical Center, Oak Lawn, IL, University of Louisville, Louisville, KY.

8:15 a.m.

Session B-AB18 -02: First-in-man Implantation Of A Leadless Endocardial Left Ventricular Pacing System (WISE-CRT) Utilising A Trans-septal Approach

Simon James, MRCP, Christopher A. Rinaldi, MD, FHRs, Andrew Turley, FRCP, Benjamin J. Sieniewicz, MBChB, Martin Arnold, Michael Chapman, MRCP and Martin Gruber. James Cook University Hospital.

8:30 a.m.

Session B-AB18 -03: His-OpTimized Cardiac Resynchronization Therapy (HOT-CRT): A Novel Approach To Enhance Crt Response

Roger A. Freedman, MD, FHRS, CCDS. Univ of Utah Health Sciences Center, Cardiology Dept, Salt Lake City, UT.

Chair: Roger A. Freedman, MD, FHRS, CCDS. University of Utah, Salt Lake City, UT.
8:45 a.m.  B-AB16 -04: Permanent His Bundle Pacing Can Reverse Left Ventricular Dysfunction in Patients with Pacing Induced Cardiomyopathy

Pugazhendhi Vijayaraman, MD, FHRS, Kenneth A. Ellenbogen, MD, FHRS and Jacek Gajek, MD, PhD. Geisinger Heart Institute, Wilkes-Barre, PA, VCU Medical Center, Richmond, VA, Wroklaw Medical University, Wroklaw, Poland

9 a.m.  B-AB16 -05: Lv Lead Electrical Delay Aids Identification Of The Optimal Endocardial Pacing Site; Results From An International Multi-centre Registry

Benjamin J. Sieniewicz, MBChB, Jonathan M. Behar, MB BS (Hons), BSc (Hons), MRCP (UK), Manav Sohal, MBBS, Justin Gould, Simon Claridge, Esq., LLB MBBS, Bradley Porter, MBChB, Steven A. Niederer, DPhil in computer science, James H. Gamble, BM BCH MRCP, Timothy Betts, MD, Pierre Jais, MD, NICOLAS DERVAL, MD, David D. Spragg, MD, FHRS, Paul Steendijk, Berry M. Van Gelder, PhD, Frank A. Bracke, MD, PhD, Jaswinder Gill, MD FRCP, Mark D. O'Neil and Christopher A. Rinaldi, MD, FHRS. King's College London, London, United Kingdom, Guy's and St Thomas's NHS Foundation Trust, Barret, United Kingdom, , Guy's and St Thomas' Trust, LONDON, United Kingdom, Oxford University Hospitals NHS Trust, Oxford, United Kingdom, Oxford University Hospitals, Oxford, United Kingdom, Hôpital Haut-Lévêque, Bordeaux, France, HOPITAL CARDIOLOGIQUE DU HAUT-LEVEQUE, Pessac, France, Johns Hopkins Bayview Medical Center, Cardiology, Baltimore, MD, Leiden University, Leiden, Netherlands, Catharina Hospital, Eindhoven, Netherlands, Guys and St. Thomas Hospital, London, United Kingdom, Guy's and St Thomas' Hospital, London, United Kingdom, St. Thomas Hospital, Cardiac Dept, London, United Kingdom

9:15 a.m.  B-AB16 -06: Efficiency Of Different Programming Strategies Using Mpp for Cardiac Resynchronization Therapy

Giuseppe Ciconte, MD, PhD, Zarko Calovic, MD, Gabriele Vicedomini, MD, Luke C. McSpadden, PhD, Kyungmoo Ryu, PhD, Jan Manguel, Massimo Savianno, Manuel Conti, Vincenzo Santinelli, MD and Carlo Pappone, MD, PhD. I.R.C.C.S. Policlinico San Donato, San Donato Milanese, Italy, IRCCS Policlinico San Donato, Agrate Brianza, Italy, Maria Cecilia Hospital, Colignola, Italy, Abbott, Sylmar, CA, St. Jude Medical CRMD, Sylmar, CA, St. Jude Medical, Sylmar, Saint Lucia, IRCCS Policlinico San Donato, Italy, San Raffaele Hospital, Dept of Cardiology EP and Cardiac Pacing, Milan, Italy

Session B-AB17. LBBB AND HEART FAILURE: IMPACT ON OUTCOME, RESPONSE TO CRT, AND THE UTILITY OF HIS BUNDLE PACING

Heart Failure
Room 210B
Abstract Plus
CME/CE Hours: 1.5

Session Description: The session will present data on outcomes for patients with LBBB and heart failure. It will examine the differing morphologies classified as LBBB and the impact of morphology on CRT outcome. Finally, data on HIS bundle conducti

8 a.m.  B-AB17 -01: Survival With Left Bundle Branch Block And Preserved, Mildly Reduced Or Moderately To Severely Reduced Left Ventricular Ejection Fraction

Karin Gabriella. Johansson, No Degree, Daniel E. Loewenstein, No Degree, Cynthia L. Green, PhD, Daniel J. Friedman, MD, Martin Ugander, MD, PhD and Brett D. Atwater, MD. Karolinska Institutet, and Karolinska University Hospital, Stockholm, Sweden, Duke University Medical Center, Durham, NC

8:15 a.m.  B-AB17 -02: Characterization Of Left Bundle Branch Block With Multielectrode Septal Mapping: Implications For Mechanism Of QRS Correction With His Bundle Pacing

Gaurav A. Upadhyay, MD, FHRS, Christopher Jones, MD, Nilarun Chowdhuri, MD, Michael Rainem, CEPS, Andrew D. Beaser, MD, Zaid Aziz, MD, Michael T. Bromman, MD PhD, Hemal M. Nayak, MD, FHRS, Cevher Ozcan, MD and Roderick Tung, MD, FHRS. The University of Chicago Medicine, Chicago, IL, Center for Arrhythmia Care, The University of Chicago Medicine, Chicago, IL, Abbott, South Elgin, IL, University of Chicago Medical Center, Chicago, IL, University of Chicago, Chicago, IL, University of Chicago, Dept of Medicine, Chicago, IL

8:30 a.m.  B-AB17 -03: Demonstration Of Intra-hisian Conduction Disease During Permanent His Bundle Pacing In Patients With Left Bundle Branch Block

Parikshit S. Sharma, MD, MPH, Nicholas J. Serafini, MD, Henry D. Huang, MD and Richard G. Trohman, MD. Bay Vascular and Heart, Dearborn, MI

8:45 a.m.  B-AB17 -04: Effect Of His Bundle Pacing On Patients Not Responding To Cardiac Resynchronization Therapy: Acute Symptomatic And Echocardiographic Improvement Despite Modest Change In Qrs Duration

Kalli M. Masri, DO, Jacob Trombley, DO, Abhijeet Singh, MD, Yousef Bader, MD, Anas Obeid, DO, Daniel Lee, MD, Rasheed Mirza, MD and Rehan Mahmud, MD. Bay Vascular and Heart, Dearborn, MI

9 a.m.  B-AB17 -05: Non-Invasively Quantified Changes in Left Ventricular Activation Predict Outcomes in Patients Undergoing Cardiac Resynchronization Therapy

Daniel J. Friedman, MD, Kasper Emerek, MD, Steen M. Hansen, MD, PhD, Peter L. Sørensen, MSc, Peter
Session B-AB20. PEDIATRIC AND CONGENITAL ELECTROPHYSIOLOGY POTPOURRI

Pediatrics and Adult Congenital Heart Disease
Room 205B 8 - 9:30 AM
Abstract Plus  F PM
CME/CE Hours: 1.5

Session Description: This session will be abstracts that relate to a wide variety of issues surrounding the management of pediatric and adult congenital patients. Clinical and translational research will be presented.

Chairs: Stu (Stuart) Berger, MD, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL
Robin L. Clegg, MD, Alberta Children's Hospital, Calgary, AB, Canada

8 a.m.  B-AB20 -01: Preclinical Validation Of Myocardial Tissue Characterization To Reduce Injury To The Conduction System During Congenital Heart Surgery
Aditya Kaza, MD, PhD, University of Utah, Salt Lake City, UT, CVRTI, University of Utah, UT

8:15 a.m.  B-AB20 -02: International Triadin Knockout Syndrome (TKOS) Registry: The Clinical Phenotype And Treatment Outcomes Of Patients With TKOS
Daniel John. Clemens, BS, David Tester, BS, Seshadri Balaji, MMBS, PhD, Carlo Napolitano, MD, PhD, Silvia G. Priori, MD, PhD, VINCENT PROBST, MD, Mark A. Walsh, MD, Dominic J. Abrams, MMBS, MD, Lia Crotti, MD, PhD, Nathalie Roux-Buisson, MD, PhD, Peter J. Schwartz, MD, Frederic Sacher, MD and Michael J. Ackerman, MD, PhD. Mayo Clinic, Rochester, MN, Oregon Health and Science University, Portland, OR, Fondazione Salvatore Maugeri, Pavia, Italy, University of Pavia & ICS Maugeri, Pavia, Italy, CHU DE NANTES, NANTES, France, Bristol Royal Hospital for Children, Bristol, United Kingdom, Children’s Hospital Boston, Boston, MA, IRCCS Istituto Auxologico Italiano, Milan, MI, Italy, Center for Cardiac Arrhythmias of Genetic Origin, Milan, Italy, LIRYC Institute/ Bordeaux University Hospital, Bordeaux, France

8:30 a.m.  B-AB20 -03: Parental Post Traumatic Stress Disorder In Pediatric ICD Patients
Lauren M. Schneider, PsyD, Korey K. Hood, PhD, Spenser Y. Chen, BS, Kara S. Motonaga, MD, Richard J. Shaw, MD, Debra Hanisch, NP, Scott R. Ceresnak, MD, Anthony Trela, NP, Samuel F. Sears, PhD and Anne M. Dubin, MD, FHRS, CEPS-P. Stanford University School of Medicine, Stanford, CA, East Carolina University, Greenville, NC, Stanford Univ, Pediatric Cardiology, Palo Alto, CA

8:45 a.m.  B-AB20 -04: Transvenous Approach To Cardiac Resynchronization For the Systemic Right Ventricle: Procedural Aspects And Long-term Outcomes
Jeremy P. Moore, MD, MSc, Jeannette Lin, MD, David Joseph. Cho, MBA, MD, Jamil Aboulhosn, MD, Gentian Lluri, MD, PhD and Kevin M. Shannon, MD. UCLA Medical Center, Pediatrics, Dept of Pediatric Cardiology, Los Angeles, CA, Ahmanson/UCLA Adult Congenital Heart Disease Center, Los Angeles, CA, UCLA David Geffen School of Medicine, Los Angeles, CA, UCLA, Los Angeles, CA

9 a.m.  B-AB20 -05: Can Sotalol Be Safely Initiated In An Outpatient Setting In The Pediatric Population? Epidemiology And Experience From A Large Single-center Registry
Stephanie Frances. Chandler, MD, Esther Chu, PharmD, Robert Dean. Whitehill, MD, Vassilios Bezzeries, MD, PhD, Laura M. Bevilacqua, MD, Elizabeth S. Dewitt, MD, Mark E. Alexander, MD, FHRS, CEPS-P, Dominick J. Abrams, MBBS, MD, John K. Friedman, MD, FHRS, CEPS-P, Edward P. Walsh, MD, CEPS-P, CCCD and Douglass Y. Mah, MD. Boston Children's Hospital Department of Cardiology, Boston, MA, Boston Children's Hospital, Boston, MA, Cardiology, Boston, MA, Children's Hospital Cardiology Dept. . Boston, MA, Children's Hospital, Cardiology, Boston, MA, Children’s Hospital Boston, Boston, MA, Children's Hospital Boston, Cardiology, Boston, MA, Boston Children’s Hospital, Boston, MA

9:15 a.m.  B-AB20 -06: Paces Work Force: A Reckoning
Scott R. Ceresnak, MD, Mitchell I. Cohen, MD, FHRS, CEPS-P, CCCD, Shubhayan Sanatani, MD, FHRS, CCCD and Andrew D. Blaufox, MD, FHRS, CEPS-P. Stanford University - Lucille Packard Children's Hospital, Palo Alto, CA, Inova Fairfax Children's Hospital, Fairfax, VA, Children's Heart Centre, Vancouver, BC, Canada, Alexandra & Steven Cohen Children's Medical Ctr of NY, Pediatric Cardiology, New Hyde Park, NY

Session B-AB19. VENTRICULAR ARHYTHMIAS AND SUDDEN CARDIAC DEATH PREVENTION

Pediatrics and Adult Congenital Heart Disease
Room 204 8 - 9:30 AM
Abstract Plus  F PM
CME/CE Hours: 1.5

Session Description: This session addresses the use of novel noninvasive tests in pediatric and adult congenital heart patients so as to predict ventricular arrhythmias. In addition, this session will illustrate and educate the audience regarding

Chairs: Christopher C. Erickson, MD, FHRS, CEPS-P, Children's Specialty Physicians, Omaha, NE
Philip M.. Chang, MD, FHRS, CEPS-P. Children's Hospital, Cincinnati, OH, University of Florida/Shands Children's Hospital Congenital Heart Center, Gainesville, FL

8 a.m.  B-AB19 -01: Entrapped Myocardium In Pediatric Cardiac Fibromas: A Plausible Anatomic Substrate For Ventricular Tachycardia And Cardiac Arrest
Mark E. Alexander, Chyrstalle Katte Carreon, MD, Pedro J. Del Nido, MD, Antonio R. Perez-Atayde, MD, Tal Geva, MD, Stephen P. Sanders, California Pacific Medical Center, David Walsh and Tal Geva, MD. Children's Hospital, Boston, MA, Children's Hospital, Boston, MA, Children's Hospital Boston, Boston, MA
8:15 a.m.  B-AB19 -02: Catheter Ablation Of Ventricular Arrhythmia For Patients With Ebstein’s Anomaly Of The Tricuspid Valve
Jeremy P. Moore, MD, MSc, Roberto G. Galliott, MD, Kevin M. Shannon, MD, Christopher J. McLeod, MD, PhD, FHRs, Anca Chiriac, MD, PhD, Edward P. Walsh, Sreeram Narayanswami, MD, Akash R. Patel, MD, FHRs, CEPS-P, Nathaniel M. S. De Groot, MD, PhD, Seshadri Balaji, MBBS, PhD, David S. Frankel, MD, FHRs, Benjamin Blais, MD and Kalyanam Shivkumar, MD, PhD, FHRs. UCLA Medical Center, Pediatrics, Dept of Pediatric Cardiology, Los Angeles, CA, UCLA, Los Angeles, CA, Mayo Clinic, Rochester, MN, Boston Children’s Hospital, Boston, MA, University Hospital of Cologne, Cologne, Germany, UCSF Benioff Children’s Hospital, San Francisco, CA, Erasmus University Center, Rotterdam, Netherlands, Oregon Health and Science University, Portland, OR, Hospital of the University of Pennsylvania, Cardiology, Philadelphia, PA, UCLA Health System, Los Angeles, CA

8:30 a.m.  B-AB19 -03: Incidentally Identified Variants In Genes Associated With Arrhythmogenic Right Ventricular Cardiomyopathy Do Not Represent Pathologic Biomarkers
Andrew Headrick, MD, MPH, Jill A. Rosenfield, MS, Yaping Yang, PhD, Hari Tunuguntla, MD, Hugh Allen, MD, Daniel Penny, MD, PhD, Jeffrey J. Kim, MD and Andrew Paul. Landstrom, MD, PhD. Baylor College of Medicine, Houston, TX, Texas Children’s Hospital, Houston, TX, Texas, Houston, TX

8:45 a.m.  B-AB19 -04: Routine Defibrillation Threshold Testing In Infants And Children With Extracardiac Implantable Cardioverter Defibrillators - Is It Risk Or Benefit?
Matthias J. Mueller, MD, David Backhoff, MD, Jana K. Dieks, MD, Heike E. Schneider, Wolfgang Ruschewski, MD, Thomas Paul and Ulrich Krause. Georg August University, Göttingen, Germany

9 a.m.  B-AB19 -05: The Peak-to-end Interval Of The T-wave: A Risk Factor For Sudden Cardiac Death In Adults With Congenital Heart Disease
Jim T. Vehmeijer, MD, Zeilha Koyak, MD, Barbara Mulder, MD, PhD and Joris R. de Groot, MD, PhD. Academic Medical Center, Amsterdam, Netherlands

9:15 a.m.  B-AB21 -06: Reduction In Pain And Opioid Use After S-icd Implantation With Bupivacaine Nerve Block
Yawar Saeed, PhD, MRCP, Vijay S. Chauhan, MD, Peter H. Backx, DVM, PhD, Danna A. Spears, MD and Kumaraswamy Nanthakumar, MD. Peter Munk Cardiac Centre TGH, Toronto, ON, Canada, University Health Network - Toronto General Hospital, Toronto, ON, Canada, York University, Toronto, ON, Canada, University of Toronto, Toronto, ON, Canada, University Health Network - Toronto General Hospital, Toronto, ON, Canada

9:15 a.m.  B-AB21 -05: Anti-arrhythmic Induced Reversal Of Phenotypic Cardiomyopathic Changes Resultant From A Channelopathy
Yawar Saeed, PhD, MRCP, Vijay S. Chauhan, MD, Peter H. Backx, DVM, PhD, Danna A. Spears, MD and Kumaraswamy Nanthakumar, MD. Peter Munk Cardiac Centre TGH, Toronto, ON, Canada, University Health Network - Toronto General Hospital, Toronto, ON, Canada, York University, Toronto, ON, Canada, University of Toronto, Toronto, ON, Canada, University Health Network - Toronto General Hospital, Toronto, ON, Canada

9 a.m.  B-AB21 -04: Intravenous Short-Acting β1-blocker and Verapamil Stabilized Frequent Occurrence of T Wave Alternans and Ventricular Fibrillation Storm In A Patient With Long QT Syndrome Type 8
Masakazu Miyamoto, MD, Hiroshi Morita, MD, PhD, Yoshinama Morimoto, Akihito Miyoshi, Satoshi Kawada, Koji Nakagawa, Nobuhiro Nishii, Atsuyuki Watanabe, Shu Yamashita, MD, Takeshi Sasaki, MD, Kenzo Hirao, MD, Masahiko Goya and Masahito Suzuki. National Hospital Organization Disaster, Tachikawa, Japan, Johns Hopkins University, Baltimore, MD, Tokyo Medical and Dental University, Tokyo, Japan, Heart Rhythm Center, Tokyo Medical and Dental University, Japan, National Disaster Medical Center, Tokyo, Japan

8:30 a.m.  B-AB21 -03: Successful Catheter Ablation For Early Repolarization Syndrome Using Epidural Cold Saline Infusion
Kwang No Lee, MD, Jaemin Shin, MD, Doni Friladi, Suk-kyu Oh, MD, Suk-kyu Oh, MD, Yun Gi Kim, Hee-Soon Park, MD, Seung-Young Roh, MD, Jong-Ii Choi, MD, PHD and Young-Hoon Kim, MD. Korea University Hospital, Seoul, Korea, Republic of, Department of Cardiology, Severance Hospital, Seoul, Korea, Republic of, Korea University Medical Center, Seoul, Korea, Republic of

8 a.m.  B-AB21 -01: Mapping Termination Sites of Persistent Atrial Fibrillation With Novel Online Phase Analysis and Smartphone App
Natasha M. Maniar, Joao Mesquita, MD, Mark Swerdlow, BS, Mahmood I. Alhusseini, MSE, Albert J. Rogers, MD, Paul Clifton, PhD, Tina Baykaner, MD, MPH and Sanjiv M. Narayan, MD, PhD, FHRs. Stanford University, CA, Fanhões, Portugal, Stanford University, San Francisco, CA, Stanford, Stanford, CA, Stanford University - Stanford, CA

Program as of May 1, 2018
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Session B-LBCT01. LATE-BREAKING CLINICAL TRIALS

B-LBCT01-01: Prevention Of Arrhythmia Device Infection Trial (padit)
Andrew D. Krahrn, MD, FHR, Yves Longtin, MD, Francois Philippon, MD, FHR, David H. Birnie, MD, Jaimie Manlucu, MD, Paul Angaran, Klaus H. Rinne, MD, Benoit Coutu, MD, Aaron Low, MD, Vital Essebag, MD, PHD, Carlos A. Morillo, MD, FHR, Damian P. Redfearn, MD, Satish C. Toal, MD, Giuliano Becker, MD, Michel Degrace, MD, Bernard Thibault, MD, FHR, Eugene Crystall, MD, Stanley Tung, MD, John P. LeMaitre, Omar Sultan, MD, FRCP, Matthew T. Bennett, MD, FHR, Peter Skarsgard, MD, Jamil Bashir, MD, Felix Ayala-Paredes, MD, PhD, Leon Rioux, MD, Martin E. w. Hemels, MD, Leon H. r. Bouwels, MD, Bob van Vliet, MD, D. Berk, MD, Exner, MD, Paul Dorian, MD, FHR, Ratika Parkash, MD, Marco Alings, MD and Stuart J. Connolly, MD, University of British Columbia, Vancouver, BC, Canada, McGill University, Montreal, QC, Canada, Quebec Heart Institute, Ste-foy, QC, Canada, Ottawa Heart Institute, Ottawa, ON, Canada, London Health Sciences Centre, London, ON, Canada, Toronto General Hospital, Toronto, ON, Canada, St. Mary's Regional Cardiac Center, Waterford, ON, Canada, Hotel-Dieu Hospital, Cardiologie, Montreal, QC, Canada, Chinook Regional Hospital, Lethbridge, AB, Canada, McGill Univ Health Center, Division of Cardiology, Montreal, QC, Canada, Libin Cardiovascular Institute of Alberta, University of Calgary, Calgary, AB, Canada, Queens University, Kingston, ON, Canada, NB Heart Centre, Saint John Regional Hospital, Saint John, NB, Canada, Hospital Sacre-Coeur, Montreal, QC, Canada, Hôtel-Dieu de Lévis, Levis, QC, Canada, Montreal Heart Institute, Montreal, QC, Canada, Sunnybrook & Women's Coll, Hiit Sci Ctr, Canada, St. Paul's Hospital, Vancouver, BC, Canada, Dr. John LeMaitre, North Vancouver, BC, Canada, University of Saskatchewan, Regina, SK, Canada, CHU Sherbrooke University, Sherbrooke, QC, Canada, CRSSS Rimouski, Rimouski, QC, Canada, ziekenhuis Rijnstate, Arnhem, Netherlands, Canisius Wilhelmina Ziekenhuis, Nijmegen, Netherlands, Spaarne Gasthuis, Haarlem, Netherlands, University of Calgary, Calgary, AB, Canada, University of Toronto, Toronto, ON, Canada, Queen Elizabeth II Health Sciences Center, Halifax, NS, Canada, Amphia ziekenhuis & Working Group on Cardiovascular Research The Netherlands (WCN), Netherlands, McMaster University, Hamilton, ON, Canada
Discussants: Prevention Of Arrhythmia Device Infection Trial (padit)
Bruce L. Wilkoff, MD, FHR, CCDS. Cleveland Clinic, Cleveland, OH

B-LBCT01-02: Randomized Controlled Trial Of Cardiac Contractility Modulation In Heart Failure: The FIX-HF-SC Study
Willie T. Abraham, MD, Karl-Heinz Kuck, MD, FHR, Rochelle Goldsmith, MD, JoAnn Lindenfeld, Vivek Y. Reddy, MD, Peter Carson, MD, Douglas L. Mann, MD, Ben Saville, PhD, Rodrigo C. Chan, MD, Phi Wiegn, MD, Jeffrey Hastings, MD, Andrew J. Kaplan, MD, FHR, Lars Lutjhe, Frank Edelmann, MD, Rami Kahuash, MD, Gery F. Tomassoni, MD, FHR, Angela Stagg, BS, David Gutierrez, MD, Dan Burkhoff, MD, PhD and Gerd Hasenfus, MD, The Ohio State University Medical Center Heart & Vascular Center, Columbus, OH, Allgemeines Krankenhaus St. Georg, Hamburg, Germany, Columbia University Medical Center, New York, NY, Vanderbilt University, Nashville, TN, Icahn School of Medicine at Mount Sinai, New York, NY, Washington VA Medical Center, Washington, DC, Washington University, St. Louis, MO, Berry Consultants, Austin, TX, Chan Heart Research Institute, Mesa, AZ, 11Dallas VA Medical Center, Dallas, TX, Dallas VA Medical Center, Dallas, TX, CardioVascular Associates of Mesa, Mesa, AZ, Univ Clinic of Gottingen, Germany, Universitat Gottingen, Göttingen, Germany, The Ohio State University, Columbus, OH, Baptist Health Lexington, Lexington, KY, Impulse Dynamics (usa) Inc., Orangeburg, NY, Medical College of Wisconsin, Milwaukee, WI, Columbia University, New York, NY
Discussant: Randomized Controlled Trial Of Cardiac Contractility Modulation In Heart Failure: The FIX-HF-SC Study
Lynne W. Stevenson, MD, Brigham and Women's Hospital, Boston, MA

B-LBCT01-03: Targeted Left Ventricular Lead Implantation In Non-Left Bundle Branch Block Patients: Primary Results Of The Enhance CRT Pilot Study
Jagmeet P. Singh, MD, DPHIL, FHR, Ronald D. Berger, Rahul N. Doshi, MD, FHR, James E. Stone, MD, Douglas R. Moore, DO, Michael S. Lloyd, MD, FHRs and Emile G. Daoud, MD, FHR. Massachusetts General Hospital, Boston, MA, The Johns Hopkins Hospital, Baltimore, MD, U of Southern California Keck School of Medicine, Laguna Beach, CA, Cardiology Associates of North Mississippi, Tupelo, MS, Eastlake Cardiovascular, Brownstown, Mt, Emory Univ Hospital, Dept of Cardiac Electrophysiology, Atlanta, GA, The Ohio State University Medical Center, Div of Cardiovascular Medicine, Columbus, OH
Discussant: Targeted Left Ventricular Lead Implantation In Non-Left Bundle Branch Block Patients: Primary Results Of The Enhance CRT Pilot Study
Michael R. Gold, MD, PhD, FHR. Medical Univ of South Carolina, Charleston, SC

B-LBCT01-04: A Randomized Pragmatic Trial Of Strategies Of Permanent Pacemaker Versus
8:10 a.m.
8:18 a.m.
8:28 a.m.
8:36 a.m.
8:46 a.m.
8:54 a.m.
Implantable Cardiac Monitor In Older Patients With Syncope And Bifascicular Block

Robert S. Sheldon, MD, PhD, Mario Talajic, MD, FHRSA, Giuliano Becker, MD, Vidai Essesang, Omar Sultan, MD, FHRSA, Adrian Baranchuk, MD, Sarah Rose, PhD, Debbie Ritchie, Carlos A. Morillo, MD, FHRSA, Andrew D. Krahn, MD, FHRSA, Michele Brignone, MD and Connor Maxey, BSc. Univ of Calgary Health Sciences Centre, Calgary, AB, Canada, Montreal Heart Institute, Montreal, QC, Canada, Hospital Sacre-Coeur, Montreal, QC, Canada, McGill Univ Health Center, Division of Cardiology, Montreal, QC, Canada, Regina Arrhythmia Center, Regina, SK, Canada, Queen’s University, Kingston, ON, Canada, Univ of Calgary, Calgary, AB, Canada, Linb Cardiovascular Institute of Alberta, University of Calgary, Calgary, AB, Canada, Sauder Family and Heart & Stroke Foundation of BC, Vancouver, BC, Canada, Ospedali del Tigullio, Lavagna, Italy

9:04 a.m.
Discussant: A Randomized Pragmatic Trial Of Strategies Of Permanent Pacemaker Versus Implantable Cardiac Monitor In Older Patients With Syncope And Bifascicular Block
Win-Kuang Shen, MD, FHRSA. Mayo Clinic College of Medicine, Mayo Clinic Arizona, Phoenix, AZ

9:12 a.m.
B-LBCT01-05: Catheter Ablation vs. Antiarrhythmic Drug Therapy For Atrial Fibrillation: The Results Of The Cabana Multicenter International Randomized Clinical Trial
Douglas L. Packer, MD, Daniel B. Mark, MD, MPH, Richard A. Robb, PhD, Kristi H. Monahan, RN, David R. Holmes III, PhD, Tristram D. Bahnson, MD, Jeanne E. Poole, MD, FHRSA, CCDS, Maryam Rettmann, Yves Rosenberg, MD, MPH, Neal Jeffries, PhD, L. Brent Mitchell, MD, Greg C. Flaker, Evgeny Pokushalov, MD, PhD, Alexander Romanov, T. Jared Bunch, MD, Andrey Andrashev, MD, George Noelker, MD, Amiran Revishvili, MD, Riccardo Cappato, MD, FHRSA, Karl-Heinz Kuck, MD, FHRSA, Gerhard Hindricks, MD, D. Wyn Davies, MD, FHRSA, Adam Silverstein, MD, Hussein Al-Khalidi, PhD, Kerry L. Lee, PhD and the CABANA Investigators. Mayo Clinic - St. Mary's Hospital, Rochester, MN, Duke University Medical Center, Durham, NC, Mayo Clinic, Rochester, MN, Univ of Washington School of Medicine, Seattle, WA, National Heart, Lung, and Blood Institute, Bethesda, MD, Foothills Hospital, Calgary, AB, Canada, University of Missouri Hospital & Clinics, Columbia, MO, State Research Institute of Circulation Pathology, Novosibirsk, Russian Federation, Research Institute of Circulation Pathology, Novosibirsk, Russian Federation, Intermountain Medical Center - Intermountain Heart Rhythm Specialists, Murray, UT, Medical Science and Education Center of Moscow State University n.a. M.V.Lomonosov, Moscow, Russia, Russian Federation, Herz-und Diabeteszentrum, Nordrhein-westfalen, Germany, Bakoulev Center for Cardiovascular Surgery, Moscow, Russian Federation, IRCCS Policlinico San Donato, San Donato Milanese, Italy, Asklepios Klinik St. Georg, Hamburg, Germany, Heart Center - University of Leipzig, Leipzig, Germany, St. Mary's Hospital, London, United Kingdom, Duke Clinical Research Institute, Durham, NC

9:22 a.m.
Discussant: Catheter Ablation vs. Antiarrhythmic Drug Therapy For Atrial Fibrillation: The Results Of The Cabana Multicenter International Randomized Clinical Trial
Eric N. Prystowsky, MD, FHRSA. St Vincent Hospital and Health Center, Indianapolis, IN

Session B-SP06. YOUNG INVESTIGATOR AWARDS COMPETITION

8 a.m.
8 a.m.
8 a.m.
8 a.m.
8 a.m.
8 a.m.
8 a.m.
8 a.m.
8 a.m.
8 a.m.

8 - 10 AM

Room 107
Special Session
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. Case Western Reserve Univ, Cleveland, OH

Judge
Omer Berenfeld, PhD, FHRSA. University of Michigan, Ann Arbor, MI
Antonis A. Armoundas, PhD. Massachusetts General Hospital, Charlestown, MA
Koonlawee Nademanee, MD, FHRSA, CCDS. Pacific Rim EP Research Institute Center, Encino, CA
Kumaraswamy Nanthakumar, MD. Univ Health Network - Toronto General Hospital, Toronto, ON, Canada
Saroja Bharati, MD. Advocate Children's hospital, Oak Lawn, IL
Dierk Thomas, MD, FHRSA. University of Heidelberg, Dept of Cardiology, Heidelberg, Germany
Hailey J. Jansen, PhD, Emmanuel E. Egom, MD, PhD, Jari M. Tuomi, MD, PhD, Sara A. Rafferty, MS and Robert A. Rose, PhD. University of Calgary, Calgary, AB, Canada, Dalhousie University, Halifax, NS, Canada, Western University, London, ON, Canada

Role Of Natriuretic Peptide Receptor C In Atrial Electrophysiological Remodelling In Hypertensive Heart Disease
Hailey J. Jansen, PhD, Emmanuel E. Egom, MD, PhD, Jari M. Tuomi, MD, PhD, Sara A. Rafferty, MSc and Robert A. Rose, PhD. University of Calgary, Calgary, AB, Canada, Dalhousie University, Halifax, NS, Canada, Western University, London, ON, Canada

Aerosolized SERCA2a Suppresses Ventricular Arrhythmias That Are Unmasked At Rapid Heart Rates In Pulmonary Arterial Hypertension
Benjamin Strauss, Yassine Sassi, PhD, Zeki Ilkan, PhD, Carlos Bueno-Beti, PhD, Roger J. Hajjar, MD, Lahouaria Hadri, PhD and Fadi G. Akar, PhD. Icahn School of Medicine at Mount Sinai, New York, NY, Cardiovas Research Center/MGH-East, New York City, NY, Mount Sinai School of Medicine, New York, NY

Cardiosphere-derived Cells Reduce Ventricular Arrhythmias And Prolong Survival Of Rats With Heart Failure And Preserved Ejection Fraction
Jae Hyung Cho, MD, Peter J. Kilfoil, PhD, Ryan Solymani, BS, Kristin Luther, PhD, Russell G. Rogers, PhD, Geoffrey de Couto, PhD, Rui Zhang, MD, Lizbeth Sanchez, BS, Joshua I. Goldhaber, MD, Eduardo
9:20 a.m. B-SP06 -04: Revisiting Localised Rentry With High Density Mapping: Evidence For Multiple Slow Conducting Isthmuses Within The Circuit Antonio Frontera, MD, Rajiv Mahajan, MD, PhD, FHRS, Corentin Dallet, MS, MSEE, MSEE, Takeshi Kitamura, MD, Masayuki Kurabayashi, MD, PhD, Shoji Kuribayashi, MD, Ghassen CHENITI, MD, Claire A. Martin, MA, MBBS, PhD. Thomas Pambrou, MD, Felix Bourier, MD, ARNAUD DENIS, MD, Anna Lam, MD, Josselin Duchateau, Frederic Sacher, MD, Meleze Hocini, MD, Nicolas Derval, MD, Remi Dubois, Michel Haissaguerre, MD, PhD and Pierre Jais, MD. LIRYC institute & Hopital Haut Leveque, CHU Bordeaux, Pessac, France, Cardiology, Beaumont, Australia, LIRYC Electrophysiology and Heart Model, Bordeaux-Pessac, France, Hopital Haut Leveque, CHU Bordeaux, Pessac, France. CWT Meetings & Events, Mélissa PERNOT, Boulogne-Billancourt Cedex, France, Papworth Hospital NHS Foundation Trust, Cambridge, United Kingdom, Deutsches Herzenzentrum, Munich, Germany, CHU BORDEAUX, PESSAC CEDEX, France, Hôpital Cardiologique du Haut-Lévêque - CHU de Bordeaux, Bordeaux-Pessac, France, Bordeaux, France, LIRYC Institute/ Bordeaux University Hospital, Bordeaux, France, Hopital Cardiologique Haut Leveque - Université Bordeaux, , Boulogne-Billancourt Cedex, France, Hôpital Haut-Lévêque, Bordeaux, France

9:40 a.m. B-SP06 -06: An Optimal Set Of ECG Variables For Estimating Origin of Left-ventricular Activation By Multiple Linear Regression Shijie Zhou, MASC, B. Milan Horacek, PhD, Amir M. AbdelWahab, MD, Paul J. MacInnis, BSc, James W. Warren, BSc, Rajin Choudhury, MD, Ilhab ElSokkari, MBChB and John L. Sapp, MD, FHRS. Dalhousie University, Halifax, NS, Canada, Dalhousie University, Halifax, NS, Canada, QE II Health Sciences Center, Halifax, NS, Canada, Heart Rhythm Management Centre, Halifax, NS, Canada, QE II Health Sciences Centre, Halifax, NS, Canada
Session B-012. NON-ISCHEMIC CARDIOMYOPATHY PATIENTS BENEFIT FROM PRIMARY PREVENTION ICD
Heart Failure - Sudden Death Risk Assessment and Treatment
Room 257 10:30 - 11:15 AM
Debate F PM
CME/CE Hours: 0.75

Session Description: This lively debate session will provide an overview of current evidence for and against primary prevention ICD implantation in patients with non-ischemic cardiomyopathy.

Chair: Jeffrey J. Goldberger, MD. University of Miami, Miami, FL

10:30 a.m. Protagonist
Sana M. Al-Khatib, MD, FHRS, CCDS. Duke University Medical Center, Durham, NC

10:45 a.m. Antagonist
Andrew E. Epstein, MD, FHRS. Univ of Pennsylvania, Cardiovascular Div, Philadelphia, PA

11 a.m. Rebuttal
Sana M. Al-Khatib, MD, FHRS, CCDS. Duke University Medical Center, Durham, NC

11:05 a.m. Rebuttal
Andrew E. Epstein, MD, FHRS. Univ of Pennsylvania, Cardiovascular Div, Philadelphia, PA

Session B-139. IMPROVING PATIENT SAFETY: CLINICIANS, FDA, AND AAMI/INDUSTRY WORKING TOGETHER

Special Session
EPicenter 10:45 - 11:45 AM
Joint Session
CME/CE Hours: 0
Joint Session presented by AAMI Cardiac Rhythm Management Device Committee

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 how to recognize

Chairs: Roger G. Carrillo, MBA, MD, FHRS, CCDS. University of Miami Miller School of Medicine, Miami Shores, FL
John D. Fisher, MD, FHRS, CCDS. Montefiore Medical Center, Cardiology, Bronx, NY

10:45 a.m. How to Recognize Malfunctioning Leads
Charles D. Swerdlow, MD, FHRS, CCDS. Cedars-Sinai Medical Center, Beverly Hills, CA

10:57 a.m. Test Standards for Leads of the Future
Dan Cooke, Boston Scientific Corporation, Natick, MA

11:09 a.m. Cyber Security: Is My Patient’s Device Safe?
Suzanne Beth. Schwartz, Food and Drug Administration, MD

11:21 a.m. What Patients Should Know About Their Device and Electromagnetic Interference
Ronald C. Reitan, MSEE, Boston Scientific, Hugo, MN

11:33 a.m. Are There Risks in MR Scanning of Legacy Devices -- MagnaSafe vs. AAMI/ISO/FDA
Robert A. Stevenson, BS, MA, FHRS. Greatbatch Medical, Inc., Santa Clarita, CA
Session B-001. EP JEOPARDY: DEVICES, ANTIARRHYTHMIC DRUG USE, INTRACARDIAC ELECTROGRAMS, AND CLINICAL DECISION MAKING
Allied Professionals - Electrophysiology Laboratory
Room 210A  10:30 AM - 12 PM
Core Curriculum  ARS
CME/CE Hours: 1.5
ASRT/ARRT: DCD0058026

Session Description: Unique and fun review of a broad range of EP topics including devices, anti-arrhythmic medications and their use, intracardiac electrograms, and clinical decision making skills using a popular game show format combined with the

Chairs: Susan L. Song, BSN, RN, FHRS. Retired, Mission Hills, CA
Marleen E. Irwin, RCVT, RRT, FHRS, CCDS. University of Alberta, Edmonton, AB, Canada

10:30 a.m.  EP Lab Focus: Interpretation of Electrograms and Identification of Complications
David D. Spragg, MD, FHRS. Johns Hopkins Hospital, Cardiology, Baltimore, MD

10:50 a.m.  Everything CIED's: Pacers, ICDs, ILR, CRT, Extraction, and Remote Monitoring
Eric M. Grubman, MD, FHRS. Yale University School of Medicine, North Haven, CT

11:10 a.m.  Clinical Decision Making in Arrhythmia Patients
Ralph J. Verdino, MD. Univ of Penn Health System, LONGBOAT KEY, FL

11:30 a.m.  Panel Discussion
Tbd Tbd. Medcomp Inc., Melbourne, FL

Session B-002. PATHOPHYSIOLOGY AND TREATMENT OF ATRIAL ARRHYTHMIAS IN 2018
Allied Professionals - Atrial Arrhythmias
Room 210B  10:30 AM - 12 PM
Core Curriculum  ARS
CME/CE Hours: 1.5
ASRT/ARRT: DCD0058016

Session Description: This session will provide an overview on the pathophysiology of various atrial arrhythmias, an update on pharmacologic management as well as the indications, techniques and outcomes for ablation therapy.

Chairs: Laurel M. Taylor, PA, PAC. Brigham & Women's Hospital, Cardiology, Boston, MA
Jill L. Schaeffer, MSN, CRNP, FHRS, CEPS, CCDS. The Heart Group, Stevens, PA

10:30 a.m.  Mechanisms and Pathophysiology of Atrial Fibrillation
Rutuke K. Patel, PAC. Temple University Hospital, Lansdale, PA

11 a.m.  Current Indications, Treatment Strategies, and Outcomes of AF Ablation
Scott J. Cox, MS, PAC, CEPS, CCDS. Main Line Health System, Newtown, PA

11:30 a.m.  Multidisciplinary Care of the AF Patient and Relationship to Outcomes
Jeroen ML. Hendriks, MS, PhD, RN. Centre for Heart Rhythm Disorders - University of Adelaide, Adelaide, Australia

Program as of May 1, 2018
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Session B-006. ALL YOU NEED TO KNOW ABOUT HIS BUNDLE PACING

**Cardiovascular Implantable Electronic Devices - Pacemakers**
Room 253 10:30 AM - 12 PM
Case Based Tutorial  F PM
CME/CE Hours: 1.5

**Session Description:** His Bundle pacing has become increasingly recognized as an important tool for improved and synchronized Ventricular pacing. This session provides a general overview of the concept of His Bundle pacing. Attendees can learn sever

**Chairs:** Kenneth A. Ellenbogen, MD, FHRs. VCU Medical Center, Richmond, VA
Pugazhendhi Vijayaraman, MD, FHRs. Geisinger Heart Institute, Wilkes-Barre, PA

**10:30 a.m.** Physiologic basis behind how His Bundle pacing works
Gopi Dandamudi, MD, FHRs. Krannert Institute of Cardiology Indiana University School of Medicine, Indianapolis, IN

**10:45 a.m.** How to implant a His Bundle lead - Tricks for a successful implant
Susan S. Kim, MD. Northwestern University, Chicago, IL

**11 a.m.** Who is an ideal candidate for His Bundle Pacing?
Daniel L. Lustgarten, MD, PhD, FHRs. The University of Vermont Medical Center, Burlington, VT

**11:15 a.m.** His Bundle pacing in lieu of CRT - show me the data
Gaurav A. Upadhyay, MD, FHRs. The University of Chicago Medicine, Chicago, IL

**11:30 a.m.** His Bundle Pacing Combined With Atrioventricular Node Ablation in Atrial Fibrillation Patients With Heart Failure With Both Preserved and Reduced Left Ventricular Ejection Fraction
Weijian Huang, MD, FHRs. First Hospital Affiliated to Wenzhou Medical College, Cardiovascular Medicine, Wenzhou, China

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Session B-005. PACEMAKER AND DEFIBRILLATOR-RELATED INFECTION: MAKING SURE IT DOES NOT HAPPEN TO YOUR PATIENT!

**Cardiovascular Implantable Electronic Devices - Device and Lead Management Considerations (including Lead Extraction)**
Room 252 10:30 AM - 12 PM
Core Curriculum  F PM
CME/CE Hours: 1.5

**Session Description:** The session will review recent registry data showing a rise in the rate of CIED-related infection and describe its predictors. Experts will then outline ways in which infection can be prevented and highlight ongoing seminal tr

**Chairs:** John D. Fisher, MD, FHRs, CCDS. Montefiore Medical Center, Cardiology, Bronx, NY
Raymond Yee, MD, FHRs, CEPS-A. University Hospital, London, ON, Canada

**10:30 a.m.** CIED infection - Epidemiology and Pathophysiology
Pablo B. Nery, MD. University of Ottawa Heart Institute, Ottawa, ON, Canada

**10:40 a.m.** Can This Device-related Infection Be Managed Without Lead Extraction?

Christian Sticherling, MD. University Hospital Basel, Switzerland, Switzerland
10:55 a.m. Perioperative Antibiotic prophylaxis - baths, pocket washes and infusions - Do they work?
Andrew D.. Krahn, MD, FHRs. Sauder Family and Heart & Stroke Foundation of BC, Vancouver, BC, Canada
11:10 a.m. Will capsulectomy and antibiotic pouches decrease the risk of CIED infection during a generator change?
Jayasree Pillarisetti, MD. UT health San Antonio, San Antonio, TX
11:25 a.m. Managing Infection in CIED with LV, Epicardial, and Tunneled Leads
Khaldoun G.. Tarakji, MD, MPH, FHRs. Cleveland Clinic, Pepper Pike, OH
11:40 a.m. How I was able to bring down CIED infections to “ZERO” at my hospital? The Greek Odyssey
Antonis S. Manolis, MD, FHRs, CCDS. Third Department of Cardiology / Athens University School of Medicine, Athens, Greece

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Session B-007. APPROACHES TO CHALLENGING VT ABLATION

**Catheter Ablation - Ablation**
Room 151 10:30 AM - 12 PM
Case Based Tutorial  ARS F PM
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

**Session Description:** This session will explore the different approaches for improving outcomes associated with VT ablation in particularly challenging cases.

**Chairs:** Katja Zeppenfeld, MD, PhD. Leiden University Medical Center, Leiden, Netherlands
Young-Hoon Kim, MD. Korea University Medical Center, Seoul, Korea, Republic of

10:30 a.m. Case Presentation: Ablation of Left Ventricular Tachycardia in a Patient with Mechanical Aortic and Mitral Valve Replacements
Pasquale Santangeli, MD. University of Pennsylvania, Philadelphia, PA

10:45 a.m. Case Presentation: Application of Biophysical Principles to Improve VT Ablation Efficacy
Duy Thai. Nguyen, MA, MD, FHRs. University of Colorado, Denver, Cardiology, Aurora, CO

11 a.m. Case Presentation: Ablation of VT Associated with Sarcoidosis
Jeffrey R. Winterfield, MD, FHRs. Medical University of South Carolina, Mount Pleasant, SC

11:15 a.m. Ablation of VT in a Patient with a Left Ventricular Assist Device
Joshua D. Moss, MD, FHRs. UCSF, Burlingame, CA

11:30 a.m. Use of ECMO for a Patient with Hemodynamically Unstable VT/VF
Paolo Della Bella, MD. Ospedale San Raffaele, Milano, GE, Italy

11:45 a.m. Case Presentation: Approach to Midmyocardial Substrate in VT Ablation Using a Novel Needle Ablation Catheter
Session B-009. HOW I MANAGE MY MOST DIFFICULT PRIMARY ELECTRICAL DISEASE CASES
Clinical Electrophysiology - Sudden Death Risk Assessment and Treatment
Room 157 10:30 AM - 12 PM
Case Based Tutorial F
CME/CE Hours: 0
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

Session Description: Experts in the field of primary electrical disease present challenging cases, teaching current diagnosis and treatment strategies for these patients

Chair: Gabriele Hessling, MD. German Heart Center, Munich, Germany
10:30 a.m. My most challenging CPVT patient: how to prevent frequent arrhythmias?
Christopher Semsarian, MBBS, MPH, PhD, FHRS. University of Sydney, Newtown, Australia
10:50 a.m. I suspect that my patient suffers from early re-polarization syndrome - what are the next steps?
Laurent Roten, MD. Inselspital Bern University Hospital, Bern, Switzerland
11:10 a.m. My most difficult patient with suspected Brugada syndrome
Silvia G. Priori, MD, PhD. University of Pavia & ICS Maugeri, Pavia, Italy
11:30 a.m. Advising a family with suspected Brugada syndrome
Arthur A. M. Wilde, MD, PhD. Univ of Amsterdam - Academic Medical Center, Amsterdam, Netherlands

Session B-010. EFFICIENT DIAGNOSTIC MANEUVERS FOR WIDE AND NARROW COMPLEX TACHYCARDIAS
Clinical Electrophysiology - Electrophysiology Laboratory
Room 156 10:30 AM - 12 PM
Core Curriculum F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

Session Description: This session aims at promoting to the audience a whole set of diagnostic maneuvers together with their respective value and limitations in complex tachycardias

Chairs: Eric J. Rashba, MD, FHRS. SUNY-Stony Brook Univ Medical Center, Stony Brook, NY
David J. Wilber, MD, FHRS, CCDS. Loyola Univ Medical Center, Cardiovascular Institute, Maywood, IL
10:50 a.m. AVNRT or FAT? Real effective EP maneuvers for differentiation
Teiichi Yamane, MD, PhD, FHRS. Jikei Univ School of Medicine, Tokyo, Japan
11:10 a.m. Helpful pacing maneuvers in VT: There is more than entrainment
Usha B. Tedrow, MD, MS, FHRS. Brigham and Women's Hospital, Cardiology, Boston, MA

Session B-011. CRT CONTROVERSIES AND GRAY ZONE STRATEGIES
Heart Failure - Device Therapy
Room 254 10:30 AM - 12 PM
Core Curriculum F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Boston Scientific

Session Description: This session deals with areas of controversies in the CRT patient. These include patients with comorbidities, unsuitable venous anatomy and indications for defibrillators and the appropriate programming approach.

Chairs: Michael V. Orlov, MD, PhD. Steward St Elizabeth Med Ctr of Boston, Boston, MA
Jodi L. Zilinski, MD. Aurora St. Luke'S Medical Center, Brookfield, WI
10:30 a.m. Elderly patient with Renal Failure: Should I hold off CRT?
Evgeny Mikhailov, MD. Almazov Heart, Blood and Endocrinology Centre, Saint-Petersburg, Russian Federation
10:45 a.m. Non-ischemic Cardiomyopathy Patient Getting CRT: Should I hold off on the Defibrillator?
Timothy Betts, MD. Oxford University Hospitals, Oxford, United Kingdom
11 a.m. No Coronary Venous Branch along the Free Lateral wall of the LV: Should I hold off the LV lead Implant?
John Rickard, MD, MPH. Cleveland Clinic, Cleveland Heights, OH
11:15 a.m. ECG, Automatic or Echo-guided Optimization in my Non-responder Patient: What do I do?
Theofanie Mela, MD. Massachusetts General Hospital, Boston, MA
11:30 a.m. What Should I Do with Challenging Venous Anatomy?: A Systematic Approach to Implantation of an LV Lead
Seth J. Worley, MD, FHRS. Earleville, MD

Session B-SP09. CYBERSECURITY AND IMPLANTABLE MEDICAL DEVICES
Policy, Payment, and Practice - Device Management
Room 206 10:30 AM - 12 PM
Special Session F
CME/CE Hours: 0

Session Description: Cybersecurity breaches have now extended into the realm of implantable medical devices. It is therefore important that physicians and patients have a framework in which to discuss potential threats and to understand what proce

Chairs: Laurence M. Epstein, MD. Northwell Health
William H. Maisel, MD, MPH. Beth Israel Deaconess Medical Center; Division of Cardiology, Boston, MA
10:30 a.m. Cybersecurity Vulnerabilities: The Landscape
Kevin Fu, PhD. University of Michigan, Ann Arbor, MI
THURSDAY

10:50 a.m. Cybersecurity and CIEDs: Weighing the Risks & Benefits
Bruce L. Wilkoff, MD, FHRS, CCDS. Cleveland Clinic, Cleveland, OH

11:10 a.m. FDA: Evaluating Potential Cybersecurity Breaches
Matthew Hazelett, BSBME. FDA, Silver Spring, MD

11:20 a.m. Industry Perspective: Minimizing Vulnerability & Managing
Mark D. Carlson, MA, MD, FHRS. Abbott, Sylmar, CA

11:40 a.m. Panel/Discussion: Industry, FDA, HRS
Suneet Mittal, BA, MD, FHRS. The Valley Hospital, New York, NY

Session B-013. CONTEMPORARY MANAGEMENT OF ATRIAL FIBRILLATION: STROKE PREVENTION

Special Session
Ballroom East, BCEC 10:30 AM - 12 PM
Featured Symposium ARS F
CME/CE Hours: 1.5

Session Description: This session will illustrate options for thromboembolic prophylaxis for non-valvular atrial fibrillation, including use of direct oral anticoagulants and non-pharmacological therapy with left atrial appendage closure. In addition:

Chairs: Win-Kuang Shen, MD, FHRS. Mayo Clinic College of Medicine, Mayo Clinic Arizona, Phoenix, AZ
Richard J. Kovacs. Indiana University, IN

10:30 a.m. Selection of Oral Anticoagulant Agents for Thromboembolic Prophylaxis in Non-Valvular Atrial Fibrillation
A. John Camm, MD, FHRS. St. George’s University of London, Cardiovascular Sciences Research Center, London, England, United Kingdom

10:45 a.m. Non-Pharmacological Management of AF in Stroke Prevention: Role of LAOO Devices
Sumeet K. Mainigi, MD, FHRS. Albert Einstein Medical Center, Dept of Cardiology and Electrophysiology, Philadelphia, PA

11:15 a.m. Screening for Asymptomatic AF in the Population (Without Implanted Devices): Where Do We Stand?*
Ben Freedman, OAM. University of Sydney, Australia

11 a.m. Subclinical AF Detected By Implanted Devices: Should We Anticoagulate?
Jeffrey S. Healey, MD, FHRS. Hamilton Health Sciences, Hamilton, ON, Canada

Session B-015. LEFT ATRIAL APPENDAGE CLOSURE

Special Session
Room 205A 10:30 AM - 12 PM
Joint Session
CME/CE Hours: 1.5
A Joint Session presented by the Society for Cardiovascular Angiography and Interventions

Session Description: SCAI/HRS joint session on left atrial appendage closure will cover topics relevant to both IC and EP physicians, and thus emphasizing the complementary role of these two specialties.

Chairs: Saibal Kar, MBBS, MD. Cedars Sinai Medical Center, Los Angeles, CA
Miguel Valderrabano, MD. Houston Methodist Hospital, Houston, TX

10:30 a.m. Cost implications of a left atrial appendage program in your hospital. Is it profitable, or is it a loss to your department
Douglas N. Gibson, MD, FHRS. Scripps Clinic, Rancho Santa Fe, CA

10:48 a.m. Heart Team Approach for a Left Atrial Appendage Program - Complimentary Role of Electrophysiologist, Interventionalist and Imaging Specialist
Brian Whisenant. Intermountain Heart Institute, Murray, UT

11:06 a.m. Fundamentals of imaging for left atrial appendage closure procedures: Preprocedure planning, procedural guidance and follow up
Rebecca Hahn, MD. Columbia University, New York, NC

11:24 a.m. Cost effectiveness of Concomitant procedures with Left atrial appendage closure(ablation, transcatheter valve repair/replacement).
THURSDAY

Karl-Heinz Kuck, MD, FHRS. Allgemeines Krankenhaus
St. Georg, Hamburg, Germany

11:42 a.m.
Prevention and management of complications of left
atrial appendage closure procedures 15 minutes
Saibal Kar, MBBS, MD. Cedars Sinai Medical Center,
Los Angeles, CA

Session B-014. MANAGEMENT OF ARRHYTHMIAS
AND HEART FAILURE IN POPULATIONS
UNDERREPRESENTED IN CLINICAL TRIALS
Special Session
Room 107 10:30 AM - 12 PM
Joint Session
CME/CE Hours: 1.5
A Joint Session presented by the Association of Black Cardiologists

Session Description: This session will highlight the latest clinical data
and challenges in managing arrhythmias and heart failure in
underrepresented populations, including women, racial/ethnic
minorities, and patients with chronic kidney disease.

Chairs: Felix O. Sogade, MD, FHRS. Macon Electrophysiology
Associates, Macon, GA
Ogundu Obioha Ngwu, MD. Holy Cross Health, Silver
Spring, MD

10:30 a.m.
Genomics and Epigenetic Factors in Heart Failure
Clyde W. Yancy, MD. Northwestern University-Feinberg
School of Medicine, Chicago, IL

10:48 a.m.
Prevalence, Management and Clinical Outcomes of
Atrial Fibrillation in African Americans
Larry R. Jackson, MD, Duke University Medical Center,
Cardiology, Durham, NC

11:06 a.m.
Arrhythmias and Sudden Cardiac Arrest Prevention in
Patients with Chronic Kidney Disease
Eric S. Williams, MD, FHRS. Mercy Clinic Heart &
Vascular, Saint Louis, MO

11:24 a.m.
Gender Differences in Cardiac Arrhythmias: Clinical
Presentation and Outcomes
Jacqueline Eubany, MD, FHRS. Orange County
Cardiology, Mission Viejo, CA

11:42 a.m.
Medical and Device-Based Therapy for Sudden Cardiac
Arrest Prevention and Heart Failure: Minority
Representation in Clinical Trials and Therapeutic
John M. Fontaine, MD, FHRS. Drexel Univ College of
Medicine - Hahnemann Univ Hospital, Philadelphia, PA

Session B-SP11. HISTORY SESSION: PAUL
GILLETTE’S LEGACY IN PEDIATRIC AND
CONGENITAL ELECTROPHYSIOLOGY
Special Session
Room 205B 10:30 AM - 12 PM
CME/CE Hours: 1.5

Session Description: The session will highlight the immense impact
of Dr. Paul C. Gillette on the development of electrophysiology, and his
legacy. Stories will be told.

Chairs: George F. Van Hare, MD, FHRS, CCDS, CEPS-P.
Washington University School of Medicine, St. Louis
Children's Hospital, Saint Louis, MO
Vicki L. Zeigler, PhD, FHRS, CEPS, CCDS. Texas
Woman's Univ, Argyle, TX

10:30 a.m.
Introduction: PCG and HRS
George F. Van Hare, MD, FHRS, CCDS, CEPS-P.
Washington University School of Medicine, St. Louis
Children's Hospital, Saint Louis, MO

10:40 a.m.
Eyewitness to history: Paul Gillette in Houston, Ground
Zero
Vicki L. Zeigler, PhD, FHRS, CEPS, CCDS. Texas
Woman's Univ, Argyle, TX

10:55 a.m.
Paul Gillette’s Contributions to Clinical
Electrophysiology
John D. Kugler, MD. UNMC/CU Children's Hospital,
Joint Div of Pediatric Cardiology, Omaha, NE

11:10 a.m.
Paul Gillette’s Contributions to Device Therapy in
Children
Richard A. Friedman, MBA, MD, FHRS, CCDS. Steven
& Alexandra Cohen Children's Medical Center of New
York Northshore LIJ He, New York, NY

11:25 a.m.
Paul Gillette’s Contributions to Pediatric EP Training
Seshadri Balaji, MBBS, PhD. Oregon Health and
Science University, Portland, OR

Session B-SP10. LIVE CASE PRESENTATIONS: NYU
LANGONE MEDICAL CENTER
Special Session
Ballroom West, BCEC 10:30 AM - 12 PM
CME/CE Hours: 1.5

Session Description: NYU Langone Medical Center is a will
demonstrate live cases featuring a novel mapping system and
exploring the advantages of jet ventilation and atrial pacing for catheter
stability catheter. Case 2 will feature HIS Bundle Pacemake

Chair: Bruce A. Koplan, MD, MPH, FHRS. Brigham and
Women's Hospital Cardiac Arrhythmia Service, Boston,
MA

10:30 a.m.
Operator - Case 1: Recurrent Persistent Atrial
Fibrillation after Catheter Ablation Utilizing Noninvasive
3D Mapping and Highlighting Jet Ventilation and Pacing
for Catheter Stability
Douglas Holmes, MD. NYU Medical Center, New York,
NY

10:30 a.m.
Operator - Case 2: HIS Bundle Pacemaker
**THURSDAY**

Chirag R. Barbhaiya, MD, FHRS. NYU Langone Medical Center, New York, NY  
10:30 a.m.  
Moderator  
Larry A.. Chinitz, MD, FHRS. NYU Langone Health, New York, NY

10:30 a.m.  
Q&A Moderator - Case 1  
Anthony Aizer, MD, MS, FHRS. The Leon H Charney Heart Rhythm Center at NYU Langone Medical Center, New York, NY

10:30 a.m.  
Panelist  
Pierre Jais, MD. Hôpital Haut-Lévêque, Bordeaux, France

10:30 a.m.  
Panelist  
J. Michael Mangrum, MD. Univ of Virginia Health System, Dept of Internal Medicine, Charlottesville, VA

**Session B-SP08. THE IMPORTANCE OF INTERNATIONAL COLLABORATION IN EARLY CAREER DEVELOPMENT AND THE GLOBAL FIGHT AGAINST ARRHYTHMIAS**

*Special Session - Electrophysiology Laboratory*

Room 109  
10:30 AM - 12 PM  
Special Session  
CME/CE Hours: 1.5

**Session Description:** Heart rhythm disease afflict populations all across the world. Foreign experience can be challenging, rewarding, frustrating, costly... Come learn from early and advanced career EPs sharing their perspective and providing info

**Chairs:**  
Elena Arbelo, MD, MSc, PhD. Hospital Clinic De Barcelona - Cardiology Department - Cardiovascular Institute, Barcelona, Spain  
Junaid A.B. Zaman, BChir, BM, MA. Stanford University, Imperial College London, Good Samaritan Hospital LA, Los Angeles, CA

10:30 a.m.  
Why leaving behind what you know may be the best move you ever do. A risk benefit perspective.  
Samuel J. Asirvatham, MD, FHRS. Mayo Clinic, Rochester, MN

10:45 a.m.  
How can HRS and its partner societies help you build an international career?  
Thomas F.. Deering, MD, FHRS, CCDS. Piedmont Heart Institute, Atlanta, GA

11 a.m.  
Opportunities outside the EP lab during international training  
Junaid A.B. Zaman, BChir, BM, MA. Stanford University, Imperial College London, Good Samaritan Hospital LA, Los Angeles, CA

11:15 a.m.  
How I did it – personal tips on EP training across 4 continents.  
Elena Arbelo, MD, MSc, PhD. Hospital Clinic De Barcelona - Cardiology Department - Cardiovascular Institute, Barcelona, Spain

11:30 a.m.  
Electrophysiology in the Developing World - How You Can Help  
Michael T. Bestawros, MD, MPH. New Mexico Heart Institute and the University of New Mexico, Albuquerque, NM

11:45 a.m.  
The How To and Why of Arranging International Research Fellowships  
Igor R. Efimov, PhD, FHRS. George Washington University, Biomedical Engineering, Washington, DC

**Session B-SP07. CES PROGRAM PART I - THE CARDIAC CONDUCTION SYSTEM**

*Basic Translational Science - Bench & Translational*

Room 258A  
10:40 AM - 12 PM  
Special Session  
CME/CE Hours: 1.5

**Session Description:** This is the first of two sessions organized by the Cardiac Electrophysiology Society and focused on the cardiac conduction system. The CES meeting allows for an opportunity for networking and for updating knowledge on a hot topic

**Chairs:**  
Mario Delmar, MD, PhD, FHRS. New York University School of Medicine, New York, NY  
Marc A. Vos, PhD. UMC Utrecht, Dept of Medical Physiology, Utrecht, Netherlands

10:40 a.m.  
Gordon K. Moe Lecture: Transcriptional Control of Ion Channel Function  
Glenn I. Fishman, MD, FHRS. New York Univ School of Medicine, Division of Cardiology, New York, NY

11:20 a.m.  
Factors Controlling the Development of the Cardiac Conduction System  
Ivan Moskowitz, MD, PhD. University of Chicago, Chicago, IL

11:40 a.m.  
Chronic AV Block and Remodeling  
Marc A. Vos, PhD. UMC Utrecht, Dept of Medical Physiology, Utrecht, Netherlands

**Session B-017. THIS HOUSE BELIEVES THAT ASYMPOTOMIC PAROXYSMAL ATRIAL FIBRILLATION SHOULD BE TREATED BY CATHETER ABLATION**

*Catheter Ablation - Ablation*

Room 153  
11:30 AM - 12:15 PM  
Debate  
CME/CE Hours: 0.75  
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

**Session Description:** This session promises a lively debate on the topic of asymptomatic paroxysmal atrial fibrillation. Over the last decade, catheter ablation approaches have evolved such that the risk may now be acceptably low to offer potential

**Chair:**  
Dhiraj Gupta, MBBS, MD. Liverpool Heart and Chest Hospital, Liverpool, United Kingdom

11:30 a.m.  
Protagonist  
Dipen C. Shah, MD, FHRS. Hopital Cantonal De Geneve, Cardiology, Geneve, Switzerland

11:45 a.m.  
Antagonist  
Eric N. Prystowsky, MD, FHRS. St Vincent Hospital and Health Center, Indianapolis, IN

12 p.m.  
Rebuttal  
Dipen C. Shah, MD, FHRS. Hopital Cantonal De Geneve, Cardiology, Geneve, Switzerland

12:05 p.m.  
Rebuttal  
Eric N. Prystowsky, MD, FHRS. St Vincent Hospital and Health Center, Indianapolis, IN
Session B-018. MAPPING AF MECHANISMS IS REQUIRED FOR SUCCESSFUL ABLATION OF PERSISTENT AF
Clinical Electrophysiology - AF Mechanisms and Prevention
Room 257 11:30 AM - 12:15 PM
Debate
CME/CE Hours: 0.75
Supported by unrestricted educational grants provided by Biosense Webster, Inc. and Boston Scientific

Session Description: Persistent AF ablation is at another crossroads. Do you think PVI alone is sufficient, in which case why map? Instead perhaps you feel that a fixed lesion set is always indicated. Or do any of the patient specific AF mapping t
Chair: Gerhard Hindricks, MD. Heart Center - University of Leipzig, Leipzig, Germany
11:30 a.m. Protagonist: Mapping of AF Mechanisms Is Required for Successful Ablation of Persistent AF
William H.. Sauer, MD, FHRS, CCDS. University of Colorado, Denver, CO
11:45 a.m. Antagonist: Mapping of AF Mechanisms Is Required for Successful Ablation of Persistent AF
Atul Verma, MD, FHRS. Southlake Regional Health Centre, Toronto, ON, Canada
12 p.m. Rebuttal
William H.. Sauer, MD, FHRS, CCDS. University of Colorado, Denver, CO
12:05 p.m. Rebuttal
Atul Verma, MD, FHRS. Southlake Regional Health Centre, Toronto, ON, Canada

Session B-SP12. IMPORTANT CONSIDERATIONS OF PATIENT ENGAGEMENT TOOLS AND SOCIAL MEDIA USE IN CLINICAL PRACTICE
Allied Professionals - Advanced Practice
Room 107 12:15 - 1:15 PM
Special Session
CME/CE Hours: 1
ASRT/ARRT: DCD0058024

Session Description: Special lunch session in which above topic is presented.
Chairs: Heather M.. Ross, DNP, PhD, ANP, FHRS, CEPS, CCDS. Arizona Arrhythmia Consultants, Paradise Valley, AZ
Laurel Kay. Racenet, MSN, FNP, FHRS, CEPS, CCDS. Alaska Heart and Vascular Institute, Anchorage, AK
12:15 p.m. Updates on EMR Tools/Clinical Calculators/Shared and Wearable Device Data
Jill L. Schaeffer, MSN, CRNP, FHRS, CEPS, CCDS. The Heart Group, Stevens, PA
12:30 p.m. Updates on Shared Medical Appointments and Open Chart Access Tools
Monika Duitch, DNP, ANP, CNP. Mayo Clinic, Rochester, MN
12:45 p.m. Evolving Role and Utility of Smart Phone Apps in Clinical Practice
Monica Parmer Austin, PAC. Penn Medicine Chester County Hospital, West Chester, PA

Session B-019. HOW TO DO SUPER-RESOLUTION IMAGING OF CARDIAC ION CHANNELS AND MEMBRANE TRANSPORTERS
Basic Translational Science - Bench & Translational Room 160 12:15 - 1:15 PM
Meet-The-Experts
CME/CE Hours: 1

Session Description: The session will explain how to use the latest imaging technology to resolve the structure and function of ion channels
Chair: Stephan Lehnart, MD. University Medical Center Gottingen, Gottingen, Germany
12:15 p.m. How to use Cryo-EM to resolve the 3D architecture of ion channel complexes
John Rubinstein, PhD. University of Toronto, Toronto, ON, Canada
12:30 p.m. How to use non-diffraction limited optical microscopy to resolve t-tubular structure in the heart
Christian Soeller. Exeter, United Kingdom
12:45 p.m. How to do STimulated Emission Depletion (STED) microscopy of cardiac ion channels in multicolor
Stephan Lehnart, MD. University Medical Center Gottingen, Gottingen, Germany
1 p.m. How to do stochastic optical reconstruction microscopy (STORM-RLA) of the connexon
Robert Gourdie, PhD. VT Carilion Research Institute, Roanoke, VA

Session B-020. LEADLESS CARDIAC IMPLANTABLE ELECTRONIC DEVICES - THE PAST, PRESENT, AND FUTURE
Cardiovascular Implantable Electronic Devices - Novel CIED Devices Room 252 12:15 - 1:15 PM
Meet-The-Experts F PM
CME/CE Hours: 1

Session Description: This session focusses on various aspects of leadless pacing. Leadless pacing is becoming increasingly popular with several new developments in the defibrillation and resynchronization space. It provides a comprehensive overview
Chairs: Angelo Auricchio, MD, PhD. Fondazione Cardiocentro Ticino, Lugano, Switzerland
Brett D.. Atwater, MD. Duke University Medical Center, Durham, NC
12:15 p.m. Initial experience with leadless pacemakers
Johannes Sperzel, MD. Kerckhoff - Klinik Heart Center, Bad Nauheim, Germany
12:25 p.m. Implantation techniques for safe and successful leadless pacemaker
Rahul N. Doshi, MD, FHRS. U of Southern California Keck School of Medicine, Laguna Beach, CA
12:35 p.m. worldwide experience of managing a leadless pacemaker recall, extraction and follow up
Session B-021. CAN WE CURE ARRHYTHMIAS NONINVASIVELY WITHOUT CATHETERS?
Clinical Electrophysiology - Bench & Translational
Room 156 12:15 - 1:15 PM
Meet-The-Experts F CME/CE Hours: 1

Session Description: Is noninvasive ablation guided by advanced imaging ready for prime time? Come learn about the latest techniques and whether we can expect clinical trials in the near future.

Chairs: Yoram Rudy, PhD, FHRS, Washington Univ in St. Louis - Cardiac Bioelectricity Center, Saint Louis, MO
Stephen R. Shorofsky, MD, PhD, FHRS. Unv of Maryland Hospital, Division of Cardiology, Baltimore, MD

12:15 p.m. Photon? Proton? Carbon Ion? Advantages and challenges for noninvasive ablation
Cliff Robinson, MD. Department of Radiation Oncology, St. Louis, MO

12:30 p.m. What are the effects of noninvasive radiotherapy on the heart?
Paul C. Zei, MD, PhD, FHRS. Brigham and Women’s Hospital, Boston, MA

12:45 p.m. How I use ECGi to non-invasively identify the substrate for VT
Phillip Cuculich, MD. Washington University in St. Louis, St. Louis, MO

1 p.m. How to use MRI to target the critical components of ventricular scar
Saman Nazarian, MD, PhD, FHRS. The University of Pennsylvania, Philadelphia, PA

Session B-022. MY GRAY HAIR TRUMPS...
Pediatrics and Adult Congenital Heart Disease - Etiology, Diagnosis, and Management
Room 204 12:15 - 1:15 PM
Meet-The-Experts F PM CME/CE Hours: 1

Session Description: This is a session where 4 senior electrophysiologists explain in a case-based manner how they managed a case in a nontraditional manner and maybe even contrary to what is published in the literature and in guidelines. We hope to

Chairs: Joel A. Kirsh, BS, MD, MS, MSBME, FHRS, CEPS-P. Office of the Chief Coroner for Ontario, Toronto, ON, Canada
Vincent C. Thomas, MD, MHA, FHRS, CEPS-P. University of Nebraska Medical Center, Children’S Hospital Omaha, Omaha, NE

12:15 p.m. How I Cured That Tachycardia
Peter S. Fischbach, MA, MD, CCDS. Emory University School of Medicine, Department of Pediatrics, Atlanta, GA

12:30 p.m. How I Prevented Sudden Death
Frank J. Zimmerman, MD, CEPS-P. The Heart Institute for Children, Western Springs, IL

12:45 p.m. Congenital Heart Disease and Arrhythmia: My 6th Sense Forewarned Me
Anne M. Dubin, MD, FHRS, CEPS-P. Stanford Univ, Pediatric Cardiology, Palo Alto, CA

1 p.m. Thankfully, I Implanted an ICD
Maully J. Shah, MBBS, FHRS, CCDS, CEPS-P. Childrens Hospital of Philadelphia, Philadelphia, PA

Session B-EP02. HEART RHYTHM BOWL: FINALS
Special Session EPicenter 12:15 - 1:15 PM
EPicenter CME/CE Hours: 0

12:15 p.m. Chair
Dhanunjaya R.. Lakkireddy, MD, FHRS. Mid-America Cardiology Associates, University of Kansas Health System, Leawood, KS

12:15 p.m. Judge
T. Jared Bunch, MD. Intermountain Heart Rhythm Specialists; Eccles Outpatient Care Center, Murray, UT

12:15 p.m. Judge
Pugazhendhi Vijayaraman, MD, FHRS. Geisinger Heart Institute, Wilkes-Barre, PA

12:15 p.m. Judge
Amin Al-Ahmad, MD, FHRS, CCDS. Texas Cardiac Arrhythmia Institute, Austin, TX

12:15 p.m. Judge
Phillip Cuculich, MD. Washington University in St. Louis, St. Louis, MO

12:15 p.m. Judge
Wendy S. Tzou, MD, FHRS. University of Colorado Denver, Aurora, CO

12:15 p.m. Scorekeeper
Rakesh Gopinathannair, MA, MD, FHRS. University of Louisville School of Medicine, Cardiology/EP, Louisville, KY

12:15 p.m. Scorekeeper
THURSDAY

Session B-SP40. #AFIBHRS TWITTER CHAT
Special Session - Atrial Arrhythmias
Room 154 12:15 - 1:15 PM
Special Session  F
CME/CE Hours: 0
Session Description: Join the conversation online! Tweet your questions and comments to #AFibHRS and expert panelists will discuss them live.

Chair: Nassir F. Marrouche, MD, FHRS. Univ of Utah Health Sciences Center, Div of Cardiology, Salt Lake City, UT

12:15 p.m. Presenter Gaston Vergara, MD. Comprehensive Arrhythmia and Research and Management Center, University of Utah, Salt Lake City, UT

12:15 p.m. Presenter Pasquale Santangeli, MD. University of Pennsylvania, Philadelphia, PA

12:15 p.m. Presenter Tina Baykaner, MD, MPH. Stanford University, Stanford, CA

12:15 p.m. Presenter Suneet Mittal, BA, MD, FHRS. The Valley Hospital, New York, NY

12:15 p.m. Presenter John M. Mandrola, MD. Louisville Cardiology, Louisville, KY

12:15 p.m. Presenter Christian Mahnkopf. Dept. Of Cardiology, Klinikum Coburg, Coburg, Germany, Coburg, Germany

Session B-SP14. HEARTRHYTHM JOURNAL PRESENTS - NEW APPROACHES TO CARDIAC ARRHYTHMIAS THERAPY
Special Session Room 205A 12:15 - 1:15 PM
Special Session  F
CME/CE Hours: 1
Session Description: This session is focused on the new discoveries published in HeartRhythm related to the clinical management of patients with arrhythmia.

Chairs: Peng-Sheng Chen, MD, FHRS. Indiana Univ School of Medicine, Kranert Institute of Cardiology, Indianapolis, IN
Andrew D. Krahn, MD, FHRS. Sauder Family and Heart & Stroke Foundation of BC, Vancouver, BC, Canada

12:15 p.m. Efficacy and safety of left atrial appendage closure with WATCHMAN in patients with or without contraindication to oral anticoagulation: 1-Year follow-up outcome data of the EWOLUTION trial
Lucas V. A. Boersma, MD, PhD. St Antonius Hospital, Cardiology, Nieuwegein, Utrecht, Netherlands

12:30 p.m. Progression of paroxysmal to persistent atrial fibrillation: 10-year follow-up in the Canadian Registry of Atrial Fibrillation
Gareth J. Padfield, MBCchB, PhD. University of British Columbia, Vancouver, BC, Canada

12:45 p.m. Permanent His-bundle pacing for cardiac resynchronization therapy: Initial feasibility study in lieu of left ventricular lead
Roderick Tung, MD, FHRS. University of Chicago, Chicago, IL

1 p.m. Characterization of the epicardial substrate for catheter ablation of Brugada syndrome
Chenyang Jiang, MD. Zhejiang Shaoyifu Hospital, Hangzhou, China

Session B-SP13. CARDIAC ELECTROPHYSIOLOGY SOCIETY LUNCHEON AND POSTER SESSION
Basic Translational Science - Bench & Translational
Room 258B 12 - 2 PM
Special Session  F
CME/CE Hours: 0
Session Description: TBD

Chairs: Mario Delmar, MD, PhD, FHRS. New York University School of Medicine, New York, NY
Anne B. Curtis, MD, FHRS. University at Buffalo, Buffalo, NY

12 p.m. B-SP13 -01: Reduced Atrial Apelin Slows Conduction Velocity (CV) Via A Mechanism Involving PKC, PI3K And INa Predisposing To Atrial Fibrillation (AF)
Young M. Kim, MD, DPhil, Hao Zhang, PhD, Jack Liu, PhD, Maneesh Singh, MD, Emily Wilson, BSc, Marco Perez, Jeffrey E. Olgin, MD, FHRS and Euan Ashley. usc, san mateo, CA, Cardiac Electrophysiology and Cardiovascular Research, San Francisco, CA, University of Toronto, Toronto, ON, Canada, Stanford

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12 p.m. B-SP13 -02: Acute Results Of Superior Vena Cava And Pulmonary Vein Isolation Using Pulsed Electric Field Ablation In A Swine Model
Masateru Takigawa, MD, PhD, Konstantinos George. Vlachos, MD, PhD, Raju Viswanathan, PhD, Robert Fowler, BS, Gary Long, PhD, Richard Brose, MS, Christopher Schneider, MS, Josselin Duchateau, Nicolas Klotz, MD, Thomas Pambrun, ARNAUD DENIS, MD, NICOLAS DERVAL, MD, Hubert Cochet, MD MSc, Frederic Sacher, MD, Meleze Hocini, MD, Michel Haisaguerre, MD, PhD and Pierre Jais, MD. Hôpital Cardiologique Haut-Lévêque, Lyric institute, Université de Bordeaux, France, Pessac; Bordeaux, France, IOWA Approach Inc., Menlo Park, CA, IOWA Approach, Danville, CA, IOWA Approach, Cincinnati, OH, IOWA Approach, Inc., CA, , Hôpital Haut-Lévêque, Pessac, France, Hôpital Cardiologique Haut Lévêque, Lyric institute, Université de Bordeaux, France, CHU BORDEAUX, PESSAC CEDEX, France, HOPITAL CARDIOLOGIQUE DU HAUT-LEVEQUE, Pessac, France, Université de Bordeaux, Bordeaux, France, CHU BORDEAUX, PESSAC CEDEX, France, LIRYC Institute/Bordeaux University Hospital, Bordeaux, France, CWT Meetings & Events, Mélissa BOULOGNE-BILLANCOURT Cedex, France, Boulogne-Billancourt Cedex, France, Hôpital Haut-Lévêque, Bordeaux, France

12 p.m. B-SP13 -03: Response To Cardiac Resynchronization Therapy In Patients With Anterior Ventricular Lead Placement
Kevin Michael. Trulock, MD, Divyang Rajesh. Patel, Saleem Toro, MD, Niraj Varma, MD, PhD, Bruce L. Wilkoff and John Rickard, MD, MPH. Cleveland Clinic Foundation, Shaker Heights, OH, Cleveland Clinic Foundation, Beachwood, OH, Cleveland Heights, OH, Cleveland Clinic; Cardiovascular Medicine, Cleveland, OH, Cleveland Clinic, Cleveland, OH, Cleveland Clinic, Cleveland Heights, OH

12 p.m. B-SP13 -04: Incidence of True Left Atrial Appendage Triggers in Patients With Atrial Fibrillation Undergoing Catheter Ablation
Mohamed Al Rawahi, MD, Jackson J. Liang, DO, Suraj Kapa, MD, FFRS, Amanyah Yaeger, CRNA, Erica S. Zado, PAC, FFRS, Michael P. Riley, MD, PhD, Pasquale Santangeli, MD, Saman Nazarian, MD, PhD, FFRS, Errin C. Garcia, MD, Robert D. Schaller, DO, Jeffrey Arkles, MA, MD, David S. Frankel, MD, FFRS, Gregory E. Supple, MD, FFRS, Ramanan Kumareswaran, David J. Calians, MD, FFRS, CCDS, Francis E. Marchlinski, MD, FFRS, Francis Marchlinski, Sanjay Dixit, MD, FFRS and Sanjay Dixit. Hospital of the University of Pennsylvania, Philadelphia, PA, Mayo Clinic, Rochester, MN, Hospital of the Univ of Pennsylvania, EP, Philadelphia, PA, Hospital Of The Unv Of Pennsylvania, Philadelphia, PA, University of Pennsylvania, Philadelphia, PA, The University of Pennsylvania, Philadelphia, PA, Hospital of the University of Pennsylvania, Cardiology, Philadelphia, PA, Hospital of the University of Pennsylvania of Pennsylvania, Cardiovascular Division, Philadelphia, PA, Hospital of the Univ of Pennsylvania, Washington Crossing, PA, Hospital of the Univ of Pennsylvania, Cardiac Electrophysiology, Bala Cynwyd, PA, Hosp. of Univ of Pennsylvania, WYNNEWOOD, PA

12 p.m. B-SP13 -05: Validation of the Algorithm To Predict Termination/conversion And The Second Subsequent At Circuit From The Primary Activation Map
Masateru Takigawa, Konstantinos George. Vlachos, MD, PhD, Yoichi Kitamura, ANTONIO FRONTERA, Ghassen CHENITI, MD, Claire A. Martin, MA, MBBS, PhD, Anna Lam, MD, Felix Bouver, MD, Grégoire MASSOLLI, MD, Nathaniel C. Thompson, Nicolas Klotz, MD, Josselin Duchateau, MD, Thomas Pambrun, ARNAUD DENIS, MD, NICOLAS DERVAL, MD, Frederic Sacher, MD, Meleze Hocini, MD, Michel Haisaguerre, MD, PhD and Pierre Jais, MD. Hôpital Cardiologique Haut Lévêque, Lyric institute, Université de Bordeaux, France, Pessac; Bordeaux, France, Hôpital Haut-Lévêque, Pessac, Bordeaux, France, Deutsches Herzennzentrum, Munich, Germany, CHU Clermont-Ferrand, Boulogne-Billancourt Cedex, France, Boulogne-Billancourt Cedex, France, Hôpital Haut-Lévêque, Bordeaux, France, Hôpital Haut-Lévêque, Pessac, France, IHU-LIRYC, Pessac, France, Centre Hospitalier Universitaire, Poitiers Cedex, France, CHU BORDEAUX, PESSAC CEDEX, France, HOPITAL CARDIOLOGIQUE DU HAUT-LEVEQUE, Pessac, France, LIRYC Institute/Bordeaux University Hospital, Bordeaux, France, CWT Meetings & Events, Mélissa BOULOGNE-BILLANCOURT Cedex, France, Boulogne-Billancourt Cedex, France, Hôpital Haut-Lévêque, Bordeaux, France, Hôpital Haut-Lévêque, Pessac, France, IHU-LIRYC, Pessac, France, Centre Hospitalier Universitaire, Poitiers Cedex, France, CHU BORDEAUX, PESSAC CEDEX, France, HOPITAL CARDIOLOGIQUE DU HAUT-LEVEQUE, Pessac, France, LIRYC Institute/Bordeaux University Hospital, Bordeaux, France, CWT Meetings & Events, Mélissa BOULOGNE-BILLANCOURT Cedex, France, Hôpital Haut-Lévêque, Bordeaux, France

12 p.m. B-SP13 -06: Ischemic Preconditioning And Left Ventricular Dysfunction: A Novel Mechanism & Model For Pulseless Electrical Activity
Kaustubha Patil, MD, Richard Tunin, MS, Sarah Fink, MS, Susumu Tao, MD, PhD and Henry Halperin, MD. Johns Hopkins University School of Medicine, Baltimore, MD

12 p.m. B-SP13 -07: Human Failing Cardiac Mesenchymal Cells Induce A Failing Phenotype In Normal Cardiomyocytes
Sunil K. Vasireddi, MD, Prasongchla Sattayaprasert, MD, PhD, Mohammad M. Hajjiri, MD, Christine S. Moravec, PhD, Oju Jeon, PhD, Eben Alsbeg, PhD, Ji-Dong Fu, PhD and Kenneth R. Lautita, PhD. Case Western Reserve Univ MetroHealth Campus, Heart and Vascular Research Center, Cleveland, OH, Cleveland Clinic Foundation, Dept of Molecular Cardiology, Lerner Research Institute, Cleveland, OH, Case Western Reserve University, Dept of Biomedical Engineering and Orthopaedic Surgery, Cleveland, OH

12 p.m. B-SP13 -08: KCNJ2-Related CPVT Causes Decreased Repolarization Reserve And Perturbations In Baseline And Peak Calcium Following Adrenergic Stimulation
Louise Reilly, PhD, Cordell Snellman, BS, Sara Abozeid, BS, Jarret Warden, BS and Lee Eckhardt, PhD, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, Department of Biomedical Engineering, Johns Hopkins University School of Medicine, Baltimore, MD, Department of Physiology, Brown University, Providence, RI, Human Failing Cardiac Mesenchymal Cells Induce A Failing Phenotype In Normal Cardiomyocytes, Sunil K. Vasireddi, MD, Prasongchla Sattayaprasert, MD, PhD, Mohammad M. Hajjiri, MD, Christine S. Moravec, PhD, Oju Jeon, PhD, Eben Alsbeg, PhD, Ji-Dong Fu, PhD and Kenneth R. Lautita, PhD. Case Western Reserve Univ MetroHealth Campus, Heart and Vascular Research Center, Cleveland, OH, Cleveland Clinic Foundation, Dept of Molecular Cardiology, Lerner Research Institute, Cleveland, OH, Case Western Reserve University, Dept of Biomedical Engineering and Orthopaedic Surgery, Cleveland, OH, Department of Biomedical Engineering, Johns Hopkins University School of Medicine, Baltimore, MD

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12 p.m. B-SP13 -09: The Bruton’S Tyrosine Kinase Inhibitor Ibrutinib Causes Atrial Fibrillation Through Off-target Effects
Ling Xiao, PhD, Sebastian Claus, MD, Alan Hanley, MB MSc, Maarten Hulsman, PhD, Aneesh Bapat, MD, Yoshiko Iwamoto, MSc, Gregor Włogkiewicz, MSc, Matthias Nahrendorf, Patrick T. Ellinor, MD, PhD and David J. Millan, MD. MGH, Boston, MA, Medical Department I, Grosshader Clinic Munich, University of Munich, Munich, Germany, MGH, Charlestown, MA., Würzburg, Germany, Massachusetts General Hospital, Boston, MA
12 p.m. B-SP13 -10: Early Experience With Esophageal Retraction For Facilitation Of Catheter Ablation For Atrial Fibrillation
Sotiros Nedos, MD, E. Kevin Heist, MD, PhD, FHR, Jeremy N. Ruskin, MD, Kathryn Slattery, MD, Michael Fitzsimons, MD and Moussa Mansour, MD, FHR, Massachusetts General Hospital, Boston, MA, Massachusetts General Hospital, Cardiac Arrhythmia Service, Newton, MA, Massachusetts General Hospital, Cardiac Arrhythmia Unit, Boston, MA
12 p.m. B-SP13 -11: Outcomes Among Medicare Beneficiary Patients With Nonspecific Intraventricular Conduction Delay Versus Right Bundle Branch: Implanted With Cardiac Resynchronization Therapy With Defibrillator: Insights From The National Cardiovascular Data Registry
Hiro Kawata, MD, PhD, Haikun Bao, PhD, Jeptha Curtis, MD, Karl Minges, Ph.D (c), MPH, Teferi Y. Mitiku, MD, Ulrika Birgersdotter-Green, Gregory K. Feld, MD, FHR and Jonathan C. Hsu, MD, FHR. University of California, Irvine, Orange, CA, Center for Outcomes Research and Evaluation, Yale School of Medicine, Yale-New Haven Hospital, New Haven, CT, Yale University, New Haven, CT, Yale University, Yale Cardiology-Branford, Branford, CT, Yale University School Of Medicine, New Haven, CT. University of California San Diego, La Jolla, CA, Univ of California San Diego Cardiovascular Center, La Jolla, CA, University of California, San Diego, Cardiac Electrophysiology Section, La Jolla, CA
12 p.m. B-SP13 -12: Effective Prevention Of Atrial Fibrillation In Failing Hearts By Neuronal Na+ Channel Inhibition
Przemyslaw Radwanski, PharmD, PhD, Megan Koleske, BS, Rengasayee Veeraraghavan, PhD, Ingrid M. Bonilla, B.S., Cynthia A. Carnes, PHARMD, PHD, FHR and Sandor Gyorke, PhD. The Ohio State University, Columbus, OH, The Ohio State University, Columbus, OH, The Ohio State Univ College of Pharmacy, Heart and, Columbus, OH
12 p.m. B-SP13 -13: Incidence And Outcomes Of Ventricular Arrhythmia In Septal And Apical Hypertrophic Cardiomyopathy: The French-Canadian Experience
Charles Nadeau-Routhier, MD, FRCPC, Philippe André, MD, MSc, Jean Champagne, MD, FRCPC, François Philippin, MD, FRCPC, Jean-François Sarrafin, MD, FRCPC, Isabelle Nault, MD, FRCPC, Gilles O’Hara, MD, FRCPC, Louis Blier, MD, FRCPC, Franck Molin, MD, FRCPC, Benoit Plourde, MD, FRCPC, Karine Roy, MD, FRCPC, Eric Larose, MD, FRCPC, Marie Arsenault, MD, FRCPC and Christian Steinberg, MD, FRCPC. Quebec Heart and Lung Institute (affiliated to Laval University), Quebec, QC, Canada
12 p.m. B-SP13 -14: Whole Exome Sequencing Highlights The Potential Role Of Preclinical Cardiomyopathies In The Pathogenesis Of Sudden Unexplained Cardiac Arrest And Death In The Young
John R. Gillette, MD, MSc, PhD, David Tester, BS, Omar Shehab, MBBS, Michael Simpson, PhD, Elijah Behr, MA, MBBS, and Michael J. Ackerman, MD, PhD. Mayo Clinic, Rochester, MN, King's College London, London, United Kingdom, St George's University of London, London, United Kingdom
12 p.m. B-SP13 -15: Plasticity In Intracardiac Ganglionated Plexi Neurons In Spontaneously Hypertensive Rats (SHRs)
Jesse L. Ashton, PhD, Bruce H. Small, PhD and Johanna M. Montgomery, BS, PhD. University of Auckland, Auckland, New Zealand, Department of Physiology, Auckland, New Zealand
12 p.m. B-SP13 -16: HiPSC Gene-editing Establishes Pathogenically Of A Novel Long QT Type 8 Variant
Nikhil Chavali, Dmytro O. Kryshtal, Shan S. Parkh, Lili Wang, Moore B. Shoemaker, MD and Bjorn C. Knollmann, MD, PhD. Vanderbilt University School of Medicine, Nashville, TN, Vanderbilt University Medical Center, Nashville, TN, Vanderbilt University, Nashville, TN, Vanderbilt Univ School of Medicine, Medicine and Pharmacology, Nashville, TN
12 p.m. B-SP13 -17: Validation Of The Lesion Size Index In An In Vitro Porcine Heart: Implication Of A Durable Pulmonary Vein Isolation
Masaru Arai, MD, Yasuo Okumura, MD, PhD, Koichi Nagashima, MD, PhD, Kazuki Iso, MD, Keiko Takahashi, M.D., Ryuta Watanabe, MD, Yuji Wakamatsu, MD, Sayaka Kurokawa, Kimie Ohkubo, MD, Toshiki Nakai, MD, and Ichiro Watanabe, MD, PhD. Division of Cardiology, Department of Medicine, Nihon University School of Medicine, Tokyo, Japan, Nihon University School of Medicine, Tokyo, Japan, Nihon University School of Medicine, Itabashi-ku, Tokyo, Japan, Nihon University, Tokyo, Japan.,,, Nihon Univercity Shool of Medicine, Tokyo, Japan
12 p.m. B-SP13 -18: Subcutaneous Nerve Stimulation For Rate Control In Dogs With Persistent Atrial Fibrillation
Yuan Yuan, MD, Xiao Liu, MD, Juyi Wan, MD, Thomas H. Everett, PhD and Peng-Sheng Chen, MD, FHRS. Kranert Institute of Cardiology Room E328, Indianapolis, IN, Kranert Institute of Cardiology, Indianapolis, IN, Indiana University School of Medicine, Indianapolis, IN
12 p.m. B-SP13 -20: Subcutaneous Nerve Stimulation For Rate Control In Dogs With Persistent Atrial Fibrillation
Yuan Yuan, MD, Xiao Liu, MD, Juyi Wan, MD, Thomas H. Everett, PhD and Peng-Sheng Chen, MD, FHRS. Kranert Institute of Cardiology Room E328, Indianapolis, IN, Kranert Institute of Cardiology, Indianapolis, IN, Indiana University School of Medicine, Indianapolis, IN
12 p.m. B-SP13 -22: Impact Of Lead Material Retention On Outcomes Of Patients Undergoing Transvenous Lead Extraction
MD, FHRS, Mark J. Niebauer, MD, MS, PhD, FHRS, Thomas J. Dressing, MD, Bruce D. Lindsay, MD, FHRS, CCDS, Bruce L. Willett, MD, FHRS, CCDS, Oussama M. Wazni, MD, FHRS and Ayman A. Hussein, MD, Cleveland Clinic, Cleveland, OH. Cleveland Clinic Foundation, Cleveland, OH, Cleveland Clinic, Pepper Pike, OH, , Cleveland Clinic, Cleveland Heights, OH, Cleveland Clinic, Dept of Cardiovascular Medicine, Cleveland, OH, Cleveland Clinic, Cardiology/EP, Solon, OH, Cleveland Clinic, Cardiology, Hudson, OH, Cleveland Clinic, Bentleyville, OH.

12 p.m. **B-SP13 -30:** Prior Ventricular Arrhythmia At The Time of First Implantable Cardioverter-Defibrillator Generator Replacement Predicts Subsequent Ventricular Arrhythmia Irrespective Of Initial Indication

Rim Halaby, MD, Malini Madhavan, MBBS, Ramila A. Mehta, MS, Daniel B. Kramer, MD, Paul A. Friedman, FHRs, Peter A. Noseworthy, MD, David O. Hodge, MS, Angela Y. Higgins, M.D., Amin Mustapha, MD, Chance M. Witt, MD, Yong-Mei Cha, MD, FHRs, Bernard J. Gersh, MBCHB, DPHIL, Alfred E. Buxton, MD and Jonathan W. Waks, MD. Beth Israel Deaconess Medical Center, Boston, MA, Division of Cardiology, Mayo Clinic, Rochester, Rochester, MN, Mayo Clinic, Rochester, MN, Beth Israel Deaconess Medical Center, Cardiology, Boston, MA, Beth Israel Deaconess Medical Center, Jamaica plain, MA, Mayo Clinic, Cardiovascular Div, Rochester, MN, Beth Israel Deaconess Medical Center, Chestnut Hill, MA.

12 p.m. **B-SP13 -24:** B-SP13 -24: Determinants Of Reversible Versus Irreversible Electropropagation In Cardiac Cells

David Hunter, PhD, Leslie Tung, PhD, Ronald Berger, MD, PhD and Hankirshna Tandri, MD. Johns Hopkins University, Baltimore, MD

12 p.m. **B-SP13 -25:** Directed Use Of Vacuum-Assisted Vegetation Removal During Lead Extraction Utilizing A Steerable Pilot Sheath And Snare

Alexis Z. Tumolo, MD, Paul J. Rochon, MD, Blake E. Fleeman, MD, Ryan G. Aleong, MD, Nicholas Mantini, MD, Matthew M. Zipse, William H. Bauer, MD, FHRs, CCDS, Duy Thai. Nguyen, MA, MD, FHRs. University of Colorado Hospital, Denver, CO, Univ of Colorado, Denver, CO, University of Colorado, Denver, CO, University of Colorado-Denver, Division of Cardiology/EP, Denver, CO.

12 p.m. **B-SP13 -26:** Neither Irregularity Nor Tachycardia Are Triggers For PVC/Cardiomyopathy: Comparing Persistent Atrial And Ventricular Ectopy In An Animal Model

Narayan Guruprakash Kowli, MD, Daniel G. Jovin, No Degree, Michael O'Quinn, MD, Karoly Kaszala, MD, Kenneth A. Ellenbogen, MD, Alex Y. Tan, MD and Jose F. Huizara, MD. Hunter Holmes McGuire VA Medical Center, Pauley Heart Center, Virginia Commonwealth University, Richmond, VA, Pauley Heart Center, Virginia Commonwealth University, Richmond, VA

12 p.m. **B-SP13 -27:** Achieving Bidirectional Block Using A Bidirectional Approach: Cavotricuspid Isthmus Flutter Ablation From Both Atrial And Ventricular Aspects In A Patient With Tricuspid Atriaitis

Alexis Z. Tumolo, MD, Amneet Sandhu, Ryan T. Borne, Blake E. Fleeman, MD, Nicholas Mantini, MD, Matthew M. Zipse, William H. Bauer, MD, FHRs, CCDS and Duy Thai. Nguyen, MA, MD, FHRs. University of Colorado Hospital, Denver, CO, Univ of Colorado, Denver, CO, University of Colorado, Denver, CO, University of Colorado-Denver, Division of Cardiology/EP, Denver, CO, University of Colorado, Denver, Cardiology, Aurora, CO, University of Colorado-Denver, Division of Cardiology/EP, Denver, CO.
Fibrillation Driver Regions To Guide Catheter Ablation

B-SP13 -31: Decreased Heart Rate Variability And Sudden Cardiac Death In A Rat Model Of Heart Failure With Preserved Ejection Fraction
Jae Hyung Cho, MD, Kevin J. Holm, BS, Stephan Aynaszyan, BS, Joshua I. Goldehaber, MD, Eduardo Marban, MD, PhD, FHRS and Eugenio Cingolani, MD, Cedars-Sinai Heart Institute, Los Angeles, CA, Cedars-Sinai Medical Center, Los Angeles, CA, Cedars-Sinai Medical Center, Los Angeles, CA

B-SP13 -32: Conduction Velocity, Shannon Entropy And Magnitude Squared Coherence Correlate With Interstitial Fibrosis In Atrial Fibrillation Substrates
Junaid A.B. Zaman, MA, MBChB, Rasheda A. Chowdhury, PhD, Pravina M. Patel, BSc and Nicholas S. Peters, MD, PhD, FHRS. Imperial Centre for Cardiac Engineering, Imperial College London, London, United Kingdom

B-SP13 -33: Prognostic Impact Of Dispersion Of Repolarization In Stress Cardiomyopathy
Muthiah Subramanian, MD, Mukund Prabhu, Hisham Ahamed, Navin Mathew and K. U. Natarajan, MD, Amrita Institute of Medical Sciences, Ernakulam, India, Amrita Institute Of Medical Sciences, Kochi, India

B-SP13 -34: Integration Of Electrophysiologic And Structural Features Of Human Reentrant Atrial Fibrillation Driver Regions To Guide Catheter Ablation
Brian Hansen, BS, Jichao Zhao, PhD, Ning Li, MD, PhD, Brian Pederson, BA, Alexander Zolotarev, BS, Suhaib H. Abdulwahed, No Degree, Kateylyn M. Hofflich, No Degree, Sean Collins, BS, Anna Bratasz, MD, Kimberly Powell, PhD, Bryan Whitson, MD, PhD, Peter J. Mohler, PhD, Paul ML. Jansen, PhD, Paul ML. Jansen, PhD, Paul Weiss, MD, FHRS, CCDS, John D. Hummel, MD, FHRS and Vadim V. Fedorov, PhD. The Ohio State University, Columbus, OH, University of Auckland, Auckland, New Zealand, Abbott Laboratories, Minneapolis, MN, Moscow Institute of Physics and Technology, Moscow, Russian Federation, Ohio State University, Columbus, OH, Ohio State Univ Medical Center, Div of Cardiovascular Medicine, Columbus, OH, Ohio State Univ, Div of Cardiovascular Medicine, Columbus, OH

B-SP13 -35: Arrhythmic Outcomes In Cardiac Arrest Survivors With Preserved Ejection Fraction Registry (CASPER)
Christopher Cheung, MD, Zachary Laksman, MD, MS, Jason D. Roberts, MD, Martin S. Green, MD, Jeffrey S. Healey, MD, FHRS, Shubhayan Sanatani, MD, FHRS, CCDS, Laura Arbour, MD, Richard A. Leather, MD, Vijay S. Chauhan, MD, Christian Steinberg, MD, Paul Angarano, Hank Duff, Santabhavan Chakrabarti, MD, Christopher S. Simpson, MD, Mario Talajic, MD, Rafik Tadros, MD PhD, Colette M. Seifer, MB, BCH, CCDS, Martin J. Gardner, MD and Andrew D. Krahn, MD, FHRS. University of British Columbia, Vancouver, BC, Canada, University of Chicago, Chicago, IL, University of Chicago Medical Center, Chicago, IL, University of Chicago Medical Center, Chicago, IL, University of Chicago, Dept of Medicine, Chicago, IL

B-SP13 -36: Stroke in Patients Undergoing Transvenous Lead Extraction for Infected Cardiovascular Implantable Electronic Devices
Justin Z. Lee, MD, Ahmed K. Pasha, MD, Andrew Tseng, MD, Nancy R. Diehl, BS, Dale O. Hodge, MS, Christopher V. DeSimone, M.D, Ph.D., Fred M. Kusumoto, MD, FHRS, Komandoor S. Srivathsan, MD, Michael J. Osborn, MD, Raul E. Espinosa, MD, Robert F. Rea, MD, FHRS, Christopher J. McLeod, MD, PhD, FHRS, Win-Kuang K. Shen, MD, FHRS, Yong-Mei Cha, MD, FHRS, Paul A. Friedman, MD, FHRS, Samuel J. Asirvatham, MD, FHRS and Siva K. Mulpuru, BS, MB, MBBS, MD, FHRS, CCDS. Mayo Clinic, Phoenix, AZ, Mayo Clinic, Rochester, MN, Mayo Clinic, Jacksonville, FL, Mayo Clinic Jacksonville, EP and Pacing Services, Jacksonville, FL, Mayo Clinic, Rochester, AZ, Mayo Clinic Cardiovascular Disease, MN, Mayo Clinic College of Medicine, Phoenix, AZ, Mayo Clinic, Tucson, AZ

B-SP13 -37: Subcutaneous Defibrillator Implantation Is Associated With Improved Survival Compared To Transvenous Defibrillator Implantation In Patients With Chronic Kidney Disease (CKD)
Ahmed Shahab, MD, Adam Oesterle, MD, Ryan C. DeBoer, CEPs, Leigh Friedman, Nilarun Chowdhuri, Gaurav A. Upadhyay, MD, FHRS, Andrew D. Beaser, MD, Zaid Aziz, MD, Michael T. Bromman, MD PhD, Cevher Ozcan, MD, Christopher Isaiah. Jones, Roderick Tung, MD, FHRS and Hemal M. Nayak, MD, FHRS, Weiss Memorial Hospital, Chicago, IL, CHICAGO, IL, St. Jude Medical, Chicago, IL, University of Chicago Medicine, Chicago, IL, University of Chicago Medical Center, Chicago, IL, University of Chicago, Dept of Medicine, Chicago, IL

B-SP13 -38: Deletion Of Trpm7 Protects Hearts Against Hypertensive Heart Failure
Albert Yu, Zhichao Yue, Jia Xie, Jianlin Feng, Hiroto Tsujikawa, Bruce Liang and Liaxia Yue. University of Connecticut Health Center, Farmington, CT

B-SP13 -39: Genetic Modulation Of Atrial Fibrillation Risk In A Hispanic/Latino Cohort
Brandon Chalazan, MD, Arvind Sridhar, MS, Sreenivas Konda, PhD, Abdullah Farooqui, MD, Denise Mol, BA, Srikanth Perike, PhD, Maria Argos, PhD, Mark McCaulley, MD, PhD, Jalees Rehman, MD, Martha Daviglus, MD, PhD and Dawood Darbar, MD. University of Illinois, Chicago, IL

12 p.m. B-SP13 -40: The Atrial Fibrillation Ethnic Paradox: Insights from National Inpatient Sample Database Gurukripa N. Kowlgi, MD, Sampath Gunda, MD, Santosh K. Padala, MBBS, Jordana Kron and Kenneth A. Ellenbogen, MD, FHR. Virginia Commonwealth University, Richmond, VA, Virginia Commonwealth University, Henrico, VA, Virginia Commonwealth University, Glen Allen, VA, Virginia Commonwealth University., VCU Medical Center, Richmond, VA

Session B-SP18. FDA HOT TOPIC 1: ICD RISK STRATIFICATION AND COVERAGE Policy, Payment, and Practice - Device Therapy Room 206 1:30 - 2:15 PM Special Session F PM CME/CE Hours: 0

Session Description: This session is a discussion of current risk stratification approaches for ICD therapy. The panel will share thoughts on current coverage policies and will challenge session participants to consider the remaining gaps in evident Chairs: Fred M. Kusumoto, MD, FHR. Mayo Clinic Jacksonville, EP and Pacing Services, Jacksonville, FL Bram D. Zuckerman, MD, FDA, Silver Spring, MD

1:30 p.m. CMS: Update on ICD Coverage Policy Joseph Chin. Centers for Medicare and Medicaid Services, Baltimore, MD

1:38 p.m. PIIRS: Current Gaps in Evidence Regarding SCA Prediction and Prevention Jeffrey J. Goldberger, MD. University of Miami, Miami, FL

1:46 p.m. Panel Discussion Mark D.. Carlson, MA, MD, FHR. Abbott, Sylmar, CA

1:46 p.m. Panel Discussion Kenneth M.. Stein, MD, FHR. Boston Scientific, Saint Paul, MN

Session B-PU01. PIONEERS IN BASIC MECHANISMS Special Session 1:30 - 2:30 PM

Pioneers Unplugged CME/CE Hours: 0

Session Description: This session will present a history on the basic electrophysiology. Chair: Igor R. Efimov, PhD, FHR. George Washington University, Biomedical Engineering, Washington, DC

1:30 p.m. Panelist Natalia A.. Trayanova, PhD, FHR. Johns Hopkins Univ, Div of Biomedical Engineering, Baltimore, MD

1:30 p.m. Panelist Andre G.. Kleber. BIDMC, Pathology, Liebefeld, Switzerland

1:30 p.m. Panelist

Jose Jalife, MD, FHR. University of Michigan, Ann Arbor, MI

Session B-024. BEST PRACTICES TO MAXIMIZE REMOTE MONITORING FOR IMPROVED PATIENT CARE Allied Professionals - Device Management Room 210A 1:30 - 3 PM Core Curriculum PM CME/CE Hours: 1.5 ASRT/ARRT: DCD0058013

Session Description: Learn how to best manage the pile of remote downloads that you get daily in your clinic. Chairs: Esther M. Weiss, MSN, APN, CNS, FHR, CEPS, CCDS. Advocate Sherman Hospital, W. Dundee, IL Paul G.. Nolan, BS. University Hospital Galway, Galway, Ireland

1:30 p.m. Remote Monitoring Best Practices To Maximize Patient / Provider Compliance Lucas Marzec, MD. University of Colorado Division of Cardiology, Aurora, CO

2:30 p.m. Clinical Decision Making: Triaging Urgent versus Non-urgent Alerts Christian S.. Yacono, MHS, PAC, CCDS. Hospital of the University of Pennsylvania, Springfield, PA

2 p.m. How does Remote Monitoring Improve Patient Outcomes? Amy Kleinhaus, DNP, NP, CEPS. Tri-City Cardiology Consultants, Mesa, AZ

Session B-023. STROKE PREVENTION IN AF - OVERVIEW OF PHARMACOLOGICAL AND DEVICE THERAPIES Allied Professionals Room 210B 1:30 - 3 PM Core Curriculum PM CME/CE Hours: 1.5 ASRT/ARRT: DCD0058019

Session Description: This session focuses on how to prevent embolic complications of atrial fibrillation including appropriate choice of anticoagulants and left atrial appendage occlusion. Chairs: Tammy B. Gottshalk, MUSC, Charleston, SC Donita Atkins, BS, BSN. University of Kansas Hospital, Olathe, KS

1:30 p.m. Choices in stroke prevention: which drug or device for which patient? Gerilynn M. Schott, ACNP. University of California San Francisco, San Francisco, CA

2 p.m. Underutilization of anticoagulation in high risk individuals: overcoming the barriers. Esther V. Pimplekar, MSN, CEPS. Heart Place Mid Cities EP Clinic, Bedford, TX

2:30 p.m. How to Decide on Optimal Peri-Procedural Anticoagulation Robert Hipp, MBA, MS, PA. University of Pennsylvania, Philadelphia, PA
Session B-025. HOW TO STUDY EXERCISE-INDUCED ARRHYTHMIAS IN MOUSE MODELS OF HUMAN DISEASE

Basic Translational Science - Whole Animal Electrophysiology and Pharmacology (including Neurohumoral Modulation)

Room 160  1:30 - 3 PM
How-To    CME/CE Hours: 1.5

Session Description: This session will take a critical look at using mouse models of human heart disease to gain insights into the effects of exercise on arrhythmias

Chairs:  Anthony Rosenzweig, MD. Beth Israel Deaconess Medical - Div of Cardiology, Boston, MA          Daniel P. Judge, MD. Medical University of South Carolina, Charleston, SC

1:30 p.m.  Principles and pitfalls in using mouse models to study cardiac exercise physiology
           Anthony Rosenzweig, MD. Beth Israel Deaconess Medical - Div of Cardiology, Boston, MA

2:14 p.m.  Mouse Models of Arrhythmogenic Disease
           Daniel P. Judge, MD. Medical University of South Carolina, Charleston, SC

2:36 p.m.  Measuring exercise-induced myocardial dysfunction in mouse models
           Stephen P.. Chelko, BS, PhD. Johns Hopkins School of Medicine, Baltimore, MD

Session B-026. SHORT STOP LEARNING - TECHNOLOGIES OLD AND NEW

Cardiovascular Implantable Electronic Devices - Device Therapy
Room 252  1:30 - 3 PM
Case Based Tutorial F
CME/CE Hours: 1.5

Session Description: Present cases demonstrating the application of new technologies in CIED therapy.

Chairs:  Richard L. Page, MD, FHIRS. University of Wisconsin, School of Medicine and Public Health, Madison, WI
         Harry G. Mond, MD, PhD, FHR. Royal Melbourne Hospital, Caulfield North, VI, Australia

1:30 p.m.  His bundle pacing - Old wine in a new bottle but only better
           Pugazhendhi Vijayaraman, MD, FHR. Geisinger Heart Institute, Wilkes-Barre, PA

1:45 p.m.  Wireless LV pacing - redefining cardiac resynchronization
           Lucas V. A. Boersma, MD, PhD. St Antonius Hospital, Cardiology, Nieuwegein, Utrecht, Netherlands

2 p.m.    What have learnt from the last 5 years of leadless pacing? Live and Learn
           Jacob S. Koruth, MBBS, MD. Mount Sinai Medical Center, New York, NY

2:15 p.m.  Vagal nerve stimulators - Implantation and Management
           Vijendra Swarup, MD, FHR. Arizona Heart Rhythm Center, Paradise Valley, AZ

2:30 p.m.  How to manage ATP and DFTs with the S-ICD?
           Fleur V. Tjong, MD. Academic Medical Center, Amstredam, Netherlands
Session B-028. PERSISTENT ATRIAL FIBRILLATION: WHAT ARE THE TARGETS FOR ABLATION BEYOND THE PV SLEEVES?

**Catheter Ablation - Ablation**

**Room 151**

1:30 - 3 PM

Case Based Tutorial

ARS F PM

CME/CE Hours: 1.5

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

**Session Description:** There are no unified theories concerning the mechanisms underlying AF persistence, particularly beyond the contributions of the PV sleeves. Despite this, we continue to explore additional ablation targets to improve the short a

**Chairs:**

Stuart P. Thomas, BM. Department of Cardiology, Westmead Hospital, Westmead, Australia

LIU XINGPENG, MD, PHD. BEIJING CHAOYANG HOSPITAL, BEIJING, 11, China

**1:30 p.m.**

Identification of Potential Mechanisms Underlying the Persistence of Atrial Fibrillation: A Cased Based Approach

Jonathan M. Kalman, MBBS, PhD, FHRS. Royal Melbourne Hospital, Melbourne, VIC, Australia

**1:50 p.m.**

Ablation of Rotors and Focal Sources Underlying Persistent AF: A Case Based Approach

John D. Hummel, MD, FHRS. Ohio State Univ, Div of Cardiovascular Medicine, Columbus, OH

**2:10 p.m.**

Lines, CFAEs, GP's and Other Strategies During Catheter Ablation of Persistent AF: A Case Based Approach

Douglas L., Packer, MD, FHRS. Mayo Clinic - St. Mary's Hospital, Rochester, MN

**2:30 p.m.**

Targeting Low Voltage and Fibrotic Regions in the Left and Right Atrium during Ablation for Persistent AF: A Cased Based Approach

Nassir F., Marrouche, MD, FHRS. Univ of Utah Health Sciences Center, Div of Cardiology, Salt Lake City, UT

Session B-030. HOW TO IMPROVE THE OVERALL SUCCESS RATE OF PAROXYSMAL AF ABLATION RESULT

**Catheter Ablation**

**Room 107**

1:30 - 3 PM

**Joint Session**

CME/CE Hours: 1.5

A Joint Session presented by the Chinese Society of Pacing and Electrophysiology

**Session Description:** All experienced speakers will provide new insights into the topic Paroxysmal Atrial Fibrillation with most updated information and help you stay at the forefront of PAF ablation.

**Chair:**

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

**1:30 p.m.**

Additional sinus rhythm substrate modification beyond pulmonary vein isolation to improve Paroxysmal Atrial Fibrillation ablation result

Christopher Piorkowski, MD. University of Dresden - Heart Center, Dresden, Germany

**1:50 p.m.**

Utility of force sensing catheter to improve Paroxysmal Atrial Fibrillation ablation result

Minglong Chen, MD, PhD, FHRS. Jiangsu Province Hospital, Cardiology, Nanjing, Jiangsu, China

**2:10 p.m.**

None Pulmonary Vein Trigger ablation after pulmonary vein isolation to improve Paroxysmal Atrial Fibrillation ablation result

Luigi Di Biase, MD, PhD, FHRS. Albert Einstein College of Medicine at Montefiore Hospital, New York, NY

**2:30 p.m.**

ATP administration to improve Paroxysmal Atrial Fibrillation ablation result

Chenyang Jiang, MD. Zhejiang Shaoyifu Hospital, Hangzhou, China

Session B-029. DECIPHERING COMPLEX SVT

**Catheter Ablation - SVT**

**Room 253**

1:30 - 3 PM

**Master Class**

ARS F

**CME/CE Hours:** 1.5

**Session Description:** The expert will choose a highly relevant topic and start by giving a lecture, followed by case presentations unknown to the master. The audience will see how the master thinks aloud on these unknown cases followed by Q&A

**Chair:**

Sunny S. Po, MD, PhD. University of Oklahoma, Heart Rhythm Institute, Oklahoma City, OK

**1:30 p.m.**

Master

Melvin M. Scheinman, MD, FHRS. Univ of California-San Francisco, Cardiac EP, San Francisco, CA

**1:40 p.m.**

Case Presenter

Narayanan Namboodiri, MBBS, MMBS, MD, Sree Chitra Institute for Medical sciences and Technology, Trivandrum, India, Thiruvannathapuram, KL, India

**2:20 p.m.**

Case Presenter

Xunzhang Wang, MD. cedar-scinai, Los Angeles, CA

Session B-031. HOW I MANAGE ATHLETES WITH ARRHYTHMIAS: CASE STUDIES THAT ILLUSTRATE CRITICAL MANAGEMENT ISSUES

**Clinical Electrophysiology - Risk Stratification for Sudden Cardiac Death**

**Room 253**

1:30 - 3 PM

**Case Based Tutorial**

F

**CME/CE Hours:** 1.5

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

**Session Description:** Sudden death can be an unforeseen consequence in athletes with unrecognized heart disease. This session will help the learner determine high risk profiles and also determine amongst those, who may or may not engage in vigorous

**Chair:**

Allen J. Solomon, MD. George Washington Univ Medical Center, Div of Cardiology, Washington, DC

**1:30 p.m.**

Case studies that illustrate my approach to pre-participation screening of competitive athletes

L. Lee Eckhardt, MD, FHRS. University of Wisconsin, School of Medicine and Public Health, Madison, WI

**1:50 p.m.**

Case studies of safety considerations in athletes with ICDs

Program as of May 1, 2018

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THURSDAY

Rachel J. Lampert, MD, FHRS. Yale Univ School of Medicine, Cardiology Dept, Branford, CT
2:10 p.m. Cases That Illustrate How I Decide Which Athletes with Arrhythmias Can Participate
Michael G. Link. Pinnacle Health Cardiovascular Institute, Wormleysburg, PA
2:30 p.m. Cases that illustrate How I decide Which Athletes with Congenital Heart Disease can Compete
George F.. Van Hare, MD, FHRS, CCDS, CEPS-P. Washington University School of Medicine, St. Louis Children’s Hospital, Saint Louis, MO

Session B-032. EFFECTIVE MANAGEMENT OF CARDIOVASCULAR AUTONOMIC DISORDERS
Clinical Electrophysiology - Etiology, Diagnosis, and Management
Room 156 1:30 - 3 PM
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 of autonomic forms of syncope with particular emphasis on some common types. It will also provide an overview of the role and types of autonomic testing that is available and in whom these

Chairs: Marco A.. Mercader, MD, FHRS. George Washington University, Washington, DC
Elizabeth S. Kaufman, MD, FHRS. MetroHealth Medical Center, Div of Cardiology, Cleveland, OH

1:30 p.m. TED Talk: How I Make Sense of Cardiovascular ANS Disorders
Shubhayan Sanatani, MD, FHRS, CCDS. Children's Heart Centre, Vancouver, BC, Canada

1:48 p.m. Disorders of the Autonomic Nervous System Associated With Orthostatic Intolerance: An Overview of Classification
Artur Fedorowski, MD, PhD. Lund University, Malmö, Sweden

2:06 p.m. POTs and IST- Differentiation and Management
Cara Pellegrini, MD. San Francisco VAMC, San Francisco, CA

2:24 p.m. Mast Cell Disorders- Diagnosis and Management
Cyndya Shibao. Vanderbilt University Medical Center, Nashville, TN

2:42 p.m. Autonomic Testing- What Studies to Do and in Whom
Horacio Kaufmann, MD. New York University School of Medicine, New York, NY

Session B-033. ACCESSORY PATHWAYS: ATYPICAL IN LOCATION OR PHYSIOLOGY
Clinical Electrophysiology
Room 259 1:30 - 3 PM
Joint Session  F PM
CME/CE Hours: 1.5
A Joint Session presented by the Indian Heart Rhythm Society

Session Description: Finding difficult to achieve optimal outcome in atypical Accessory pathways? In this session of great educational content, a distinguished group of panelists will share their experience in mapping and ablation of accessory path

Chairs: Dhanunjaya R.. Lakkireddy, MD, FHRS. Mid-America Cardiology Associates, University of Kansas Health System, Leawood, KS
Calambur Narasimhan, MD. Care Hospital, The Heart Institute, Hyderabad, AP, India

1:30 p.m. Antidromic Nodovenricular Accessory Pathway: Demonstration by Pacing Maneuvers
AJIT KUMAR KUMARAN. VALAPARAMBIL, MD. SREE CHITRA TIRUNAL INSTITUTE, KUMARAPURAM, TRIVANDRUM, KL, India

1:50 p.m. Accessory pathways with CS diverticulum: optimizing the ablation results
Amir M.. Vora, MD. Mumbai, MH, India

2:10 p.m. Atriofascicular accessory pathways in Ebstein anomaly
Venkatakrishna N.. Tholakanahalli, MD, FHRS. VA Medical Center, Minneapolis, MN

2:30 p.m. Epicardial ablation of Accessory pathways
Samuel J. Asirvatham, MD, FHRS. Mayo Clinic, Rochester, MN

Session B-SP17. CARDIAC GENETIC TESTING: MAXIMIZING VALUE AND MINIMIZING HARMs
Clinical Electrophysiology
Room 109 1:30 - 3 PM
Special Session  F PM
CME/CE Hours: 1.5

Session Description: The current challenges of cardiac genetic testing are increasingly realized. Where testing is used inappropriately, there can be potential for real harms. This session will focus on the points of the process where careful decis

Chairs: Michael J. Ackerman, MD, PhD. Mayo Clinic, Rochester, MN
Christopher Semsarian, MBBS, MPH, PhD, FHRS. University of Sydney, Newtown, Australia

1:30 p.m. Current state of cardiac genetic testing in the clinic
Melissa A. Kelly, MS. Partners HealthCare Personalized Medicine, Cambridge, MA

1:50 p.m. Being aware of the potential for harm
Jodie Ingles, MPH, PhD. University of Sydney, Sydney, NS, Australia

2:10 p.m. The value of an experienced cardiac genetic counselor
Brittney A.. Murray, MS. Johns Hopkins Hospital/Division of Cardiology, Baltimore, MD

2:30 p.m. Effective communication with the family
Charlotte E. Burns, MPH. Centenary Institute, Newtown, Australia
Session B-034. A DAY IN DEVICE CLINIC: PRACTICAL CONSIDERATIONS IN CRT MANAGEMENT
Heart Failure - Device Therapy for Cardiac Dysfunction
Room 254 1:30 - 3 PM
Case Based Tutorial F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Boston Scientific

Session Description: This session will provide a practical approach to the management of common clinical scenarios in CRT patients. Case-based presentations dealing with pre-implant considerations, assessment of response, when and how to manage the

Chairs: Anne M. Gillis, MD, FHRS. Univ of Calgary - Dept of Cardiac Sciences, Calgary, AB, Canada
Wei Hua, MD, FHRS. Fu Wai Hospital, Beijing, China

1:30 p.m. How do I (or should I) routinely assess CRT response at follow up?
Cecilia Marianne Linde, MD, PhD. Karolinska Institutet Dept of Medicine Cardiology Unit, Stockholm, Sweden

1:48 p.m. I am referred a non-responder: What programming or hardware changes should I consider.
Christophe I. Leclercq, MD. CHRU Pontchaillou, Rennes, France

2:06 p.m. Selecting a vector for pacing: When do I decide to change the vector to save battery?
John Rickard, MD, MPH. Cleveland Clinic, Cleveland Heights, OH

2:24 p.m. My CRT patient has paroxysmal atrial fibrillation: What does it mean and what should I do?
Leslie A. Saxon, MD, FHRS. Univ of Rochester, Pittsford, NY

2:42 p.m. Device Optimization Using Novel Sensors in Minority Populations
Spencer Rosero, BS, MD, MS. Univ of Rochester, Pittsford, NY

Session B-035. OPTIMIZING THE CRT PATIENT: SCIENCE AND STRATEGIES
Heart Failure
Room 257 1:30 - 3 PM
Core Curriculum
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Boston Scientific

Session Description: This core curriculum session will discuss the science behind optimization and discover if there is a need.

Chairs: Angelo Auricchio, MD, PhD. Fondazione Cardiocentro Ticino, Lugano, Switzerland
John N. Catanzaro, MD, FHRS. University of Florida Health -Jacksonville, Jacksonville, FL

1:30 p.m. The Science behind Optimization: Is there a need?
Frits W. Prinzen, PhD. Maastricht University, Maastricht, Netherlands

1:50 p.m. ECG Imaging and CRT Optimization
Sylvain Ploux, MD. Bordeaux University Hospital (CHU), Pessac, France

2:10 p.m. CRT Optimization Using Body Surface Activation Mapping
Alan J. Bank, MD. United Heart and Vascular Clinic, St. Paul, MN

2:30 p.m. Automatic Optimization: the Holy grail?
peter paul delnoy, MD, PhD. Isala Hospital, zwolle, Netherlands

Session B-036. A DOUBLE HIT HURTS MORE
Pediatrics and Adult Congenital Heart Disease - Sudden Death Risk Assessment and Treatment
Room 204 1:30 - 3 PM
Case Based Tutorial F PM
CME/CE Hours: 1.5

Session Description: This is a session detailing some of the complexity in the diagnosis and management of patients when 2 disease processes co-exist and some of the issues related to treatment when this level of complexity occurs. The speakers will
Session B-037. EARLY POSTOPERATIVE ARRHYTHMIAS: WHEN SHOULD WORRY BE REPLACED BY ACTION?
Pediatrics and Adult Congenital Heart Disease - Etiology, Diagnosis, and Management
Room 205B 1:30 - 3 PM
Core Curriculum F
CME/CE Hours: 1.5

Session Description: This a pediatric and ACHD session focusing on arrhythmias that occur after heart surgery. A series of standard and specific talks will be followed by a wrap-up talk. The first 4 speakers will be asked to start each talk with

Chairs: Andrew D. Blaufox, MD, FHR, CEPS-P. Alexandra & Steven Cohen Children's Medical Ctr of NY, Pediatric Cardiology, New Hyde Park, NY
Christina Y. Miyake, MD. Texas Children's Hospital, Houston, TX

1:30 p.m. Still No Sinus Rhythm?
Scott L. Macicek, MD, CEPS-P. Ochsner, Metairie, LA

1:48 p.m. Perioperative atrial arrhythmias in children with CHD: Transient Innocent Events?
Natasja M. S. De Groot, MD, PhD. Erasmus University Center, Rotterdam, Netherlands

2:06 p.m. Ventricular Ectopy and Nonsustained VT: Worried?
Jeffrey J. Kim, MD. Texas Children's Hospital, Houston, TX

2:24 p.m. Post-operative JET: Is There Anything New?
Alice MALTRET, MD. HOPITAL NECKER, PARIS, France

2:42 p.m. Perioperative Arrhythmias: Meaningful or Meaningless?
John K. Triedman, MD, FHR, CEPS-P. Children's Hospital Boston, Cardiology, Boston, MA

Session B-140. ARRHYTHMIAS AND HEART FAILURE: THE ROLE OF A MULTI-DISCIPLINARY APPROACH
Special Session Room 162 1:30 - 3 PM
Joint Session CME/CE Hours: 1.5
A Joint Session presented by the American Heart Association

Session Description: This joint session will focus on the role of a Multi-Disciplinary Approach followed by a Panel Discussion.

Chairs: Steven R. Houser, PhD. Temple Univ Physiology Dept., Philadelphia, PA
Mariell Jessup, MD. Leducq Foundation, Boston, MA

1:30 p.m. What is the Definition of "Guideline-Directed Medical Therapy" and How Long Is It Needed Prior to Device Therapy?
Clyde W. Yancy, MD. Northwestern University-Feinberg School of Medicine, Chicago, IL

1:45 p.m. Cardiac Resynchronization Therapy: When and in Whom?
Sara M. Al-Khatib, MD, FHR, CCDS. Duke University Medical Center, Durham, NC

2 p.m. When Should Heart Transplantation Be Considered in Patients with Ventricular Tachycardia and Recurrent ICD Therapies?
Mark Drazner. UT Southwestern Medical Center, Dallas, TX
2:15 p.m. Heart Failure and Atrial Fibrillation: Should Atrial Fibrillation Ablation be Considered?
Nassir F.. Marrouche, MD, FHR, Univ of Utah Health Sciences Center, Div of Cardiology, Salt Lake City, UT
2:30 p.m. Assessing Outcomes: The Role of Registries in Quality Improvement
Clyde W. Yancy, MD. Northwestern University-Feinberg School of Medicine, Chicago, IL

Session B-038. NEURAL CONTROL OF THE HEART - BEDSIDE TO THE BENCH
Special Session Room 205A 1:30 - 3 PM
Joint Session CME/CE Hours: 1.5 A Joint Session presented by the International Society of Autonomic Neuroscience

Session Description: This session will review the latest information on neural control of the heart and highlight clinical advances and research insights.

Chairs: Kalyanam Shivkumar, MD, PhD, FHR. UCLA Health System, Los Angeles, CA
Douglas P. Zipes, MD, FHR. Indiana Univ School of Medicine, Krannert Institute of Cardiology, Carmel, IN

1:30 p.m. Overview and Road Map
Kalyanam Shivkumar, MD, PhD, FHR. UCLA Health System, Los Angeles, CA
1:40 p.m. Neural Control of the Heart-Molecular Insights
Peng-Sheng Chen, MD, FHR. Indiana Univ School of Medicine, Krannert Institute of Cardiology, Indianapolis, IN
1:55 p.m. Cardiac Neural Remodeling in Humans With Ventricular Arrhythmias
Olujimi A. Ajijola, MD, PhD. University of California, Los Angeles, Cardiac Arrhythmia Center, Sherman Oaks, CA

2:10 p.m. Autonomic Modulation for Atrial Arrhythmias
Stavros Stavrakis, MD, PhD. University of Oklahoma Health Sciences Center, Cardiology, Oklahoma City, OK
2:25 p.m. Bio-electronic Modulation of Cardiac Nerves
Jeffrey L. Ardell, PhD. UCLA, Los Angeles, CA
2:40 p.m. Computational Approaches to Define Cardiac Neural Control
Colleen E.. Clancy, PhD. University of California, Davis, Pharmacology, Davis, CA, CA
Session B-SP41. MEET THE TRIALISTS: THE LATEST IN ATRIAL FIBRILLATION ABLATION

Special Session
Ballroom West, BCEC  1:30 - 3 PM
Special Session  ARS
CME/CE Hours: 1.5

Session Description: This session will provide an update on clinical trials, including CABANA, CASTLE-AF, RE-CIRCUIT, ABRIDGE-J, as well as Consensus Document updates. A panel discussion will provide the format for focused interaction between the a

Chairs:  Francis Marchlinski, MD, FHRS. Hospital of the Univ of Pennsylvania, Cardiac Electrophysiology, Bala Cynwyd, PA
         Andrea Natale, MD, FHRS. Texas Cardiac Arrhythmia Institute at St. David’s Medical Center, Austin, TX

1:30 p.m.  Should AF Ablation be Performed in Patients Who are 65 Years or Older? -- CABANA
      Douglas L. Packer, MD, FHRS. Mayo Clinic - St. Mary’s Hospital, Rochester, MN

1:40 p.m.  Should AF Ablation be Performed in Patients with Heart Failure? -- CASTLE AF
      Nassir F. Marrouche, MD, FHRS. Univ of Utah Health Sciences Center, Div of Cardiology, Salt Lake City, UT

1:50 p.m.  Should Oral Anticoagulation be Interrupted in Patients Undergoing AF Ablation? -- RE-CIRCUIT
      Hugh Calkins, MD, FHRS, CCDS. Johns Hopkins Hospital, Baltimore, MD

2 p.m.  Should Oral Anticoagulation be Interrupted in Patients Undergoing AF Ablation? -- ABRIDGE-J
      Akihiko Nomori, MD, PhD. University of Tsukuba, Cardiology, Ibaraki, Japan

2:10 p.m.  Should Asymptomatic Patients Undergo AF Ablation: What Does the Consensus Document Say?
      Gerhard Hindricks, MD. Heart Center - University of Leipzig, Leipzig, Germany

Session B-SP16. CES PROGRAM PART II - THE CARDIAC CONDUCTION SYSTEM

Basic Translational Science - Bench & Translational
Room 258A  2 - 3:30 PM
Special Session  F
CME/CE Hours: 1.5

Session Description: This is the second of two sessions organized by the Cardiac Electrophysiology Society and focused on the cardiac conduction system. The CES meeting allows for an opportunity for networking and for updating knowledge on a hot to

Chairs:  Anne B. Curtis, MD, FHRS. University at Buffalo, Buffalo, NY
         Charles I. Berul, MD, FHRS, CEPS-P, CCDS. Children’s National Medical Center, Washington, DC

2 p.m.  Does Conduction Impairment and Structural Disease Play a Major Role in the Pathogenesis of Brugada Syndrome?
      Josep Brugada Terradellas, PhD. Hospital Clinic-University of Barcelona, Barcelona, Spain

2:20 p.m.  Inheritable Causes of Conduction System Disease

2:40 p.m.  Charles I. Berul, MD, FHRS, CEPS-P, CCDS.
      Children’s National Medical Center, Washington, DC
      Acquired Atrialventricular Block
      Demosthenes G. Katritsis, MD, PhD. Hygeia Hospital, Dept of Cardiology, Athens, Greece

3 p.m.  Physiologic Pacing: Which is the Best Approach?
      Kenneth A. Ellenbogen, MD, FHRS. VCU Medical Center, Richmond, VA

3:20 p.m.  The Last Word
      Glenn I. Fishman, MD, FHRS. New York Univ School of Medicine, Division of Cardiology, New York, NY

Session B-PO03. POSTER SESSION III

Special Session
Poster Area, Exhibit Hall  2 - 4:30 PM
Poster
CME/CE Hours: 0

Session Description: TBD

Session B-SP19. FDA HOT TOPIC 2: HEART FAILURE DEVICES AND CLINICAL TRIAL DESIGN: ARE WE ASKING THE RIGHT QUESTIONS?

Policy, Payment, and Practice - Device Therapy
Room 206  2:30 - 3:15 PM
Special Session  F
CME/CE Hours: 0

Session Description: A dialogue about the challenges with heart failure devices and clinical trial design and identifying meaningful outcomes for patients. The panel will discuss current thinking regarding outcomes for coverage and the approval pat

Chairs:  Bram D. Zuckerman, MD. FDA, Silver Spring, MD
         Fred M. Kusumoto, MD, FHRS. Mayo Clinic - St. Mary’s Hospital, Rochester, MN

2:30 p.m.  Matthew Hillebrenner, MSBME. FDA, Silver Spring, MD

2:30 p.m.  Moderator
      Clyde W. Yancy, MD. Northwestern University-Feinberg School of Medicine, Chicago, IL

2:32 p.m.  FDA: Approval Pathway for Breakthrough Devices
      Robert Kazmierski, PhD. FDA, Silver Spring, MD

2:37 p.m.  CMS: Outcomes for Coverage
      Daniel A. Canos. Centers for Medicare and Medicaid Services, Baltimore, MD

2:42 p.m.  Industry Perspective
      Nadim Yared, MBA. CVRx, Minneapolis, MN

2:47 p.m.  Panel Discussion
      Philip B. Adamson, MD, MSci. Abbott, Austin, TX

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Session B-MP02. NOVEL THERAPIES FOR HEART FAILURE
Heart Failure
EPicenter 3:15 - 4:15 PM
Moderated Poster
CME/CE Hours: 0

Session Description: The session will present novel therapies for heart failure with reduced EF, heart failure with preserved EF, and hypertrophic obstructive cardiomyopathy.

Chair: Saumya Das, MD, PhD. Massachusetts General Hospital, Lexington, MA

3:15 p.m.  B-MP02 -01: Effects Of Mesenchymal Stem Cell Implantation On Ventricular Ectopy: Comparison Of Patients With Ischemic And Non-ischemic Cardiomyopathy
Archana Ramireddy, MD, Nitika Dabas, MD, MPH, Mark S. Jacobs, MD, Gilson Fernandes, MD, Litsa Lambnicholas, MD, Robert J. Myerburg, MD, Jeffrey J. Goldberger, MD, Joshua M. Hare and Raul D. Mitrami, MD, FHRS, CCDS. University of Miami Miller School of Medicine, Miami, FL, Columbia University, New York, NY, Univ of Miami School of Medicine, Div of Cardiology, Miami, FL, University of Miami, Miami, FL, University of Miami Interdisciplinary Stem Cell Institute, Miami, FL, University of Miami, Miami, FL

3:25 p.m.  B-MP02 -02: Resynchronizing Calcium Transients Without Hardware: Cardiac Resynchronization With RyR2 Modulators
Daoyuan si, MD, PhD, Mahmoud M. Bokhari, MBBS, Mohammed Ali Azam, MBBS, PhD, Stephane Masse, MASC, Patrick Lai, Ajrin Jamil and Kumaraswamy Nanthakumar, MD, China-Japan Union Hospital of Jilin University, Changchun, China., Toronto, ON, Canada, The Hull Family Cardiac Fibrillation Management Laboratory, Toronto General Hospital, University Health Network, Toronto, ON, Canada, Univ Health Network, Toronto, ON, Canada, Univ Health Network - Toronto General Hospital, Toronto, ON, Canada

3:35 p.m.  B-MP02 -03: Targeted Radiofrequency Septal Ablation to Reduce Outflow Tract Gradient in Symptomatic Hypertrophic Obstructive Cardiomyopathy: Initial Feasibility Cohort
Andrew D. Beaser, MD, Jennifer Sobacki, Zaid Aziz, MD, Gaurav A. Upadhyay, MD, FHRS, Cevher Ozcan, MD, Michael T. Broman, MD PhD, Christopher Isaiah Jones, Hemal M. Nayak, MD, FHRS and Roderick Tung, MD, FHRS. University of Chicago, Chicago, IL, The University of Chicago Medicine, Chicago, IL, University of Chicago, Dept of Medicine, Chicago, IL, University of Chicago Medical Center, Chicago, IL

3:55 p.m.  B-MP02 -05: Chronic Intermittent Low-level Transcutaneous Vagus Nerve Stimulation Reverses Cardiac Remodeling In A Rat Model Of Heart Failure With Preserved Ejection Fraction
Liping Zhou, MD, Adrian Filiberti, PhD, Christian D. Fleming, MD, Mary Beth Humphrey, PhD, Benjamin J. Scherlag, PhD, Sunny S. Po, MD, PhD and Stavros Stavarakis, MD, PhD. Renmin Hospital of Wuhan University, Wuhan City, China, University of Oklahoma Health Science Center, Oklahoma, OK, University of Oklahoma, Oklahoma City, OK, University of Oklahoma, Heart Rhythm Institute, Oklahoma City, OK, University of Oklahoma Health Sciences Center, Cardiology, Oklahoma City, OK

Session B-039. DEVICE-BASED CASES
Allied Professionals - Device Therapy
Room 210A
Case Based Tutorial ARS F PM
CME/CE Hours: 1.5

Session Description: Through case based presentations, this session will review challenges in device programming and interpretation of diagnostics. Trouble shooting of device functions and algorithms will be reviewed. Presenters should be prepared

Chair: Melanie T.. Gura, MSN, APRN, FHRS, CCDS. NE Ohio Cardiovascular Specialists, Hudson, OH

4:30 p.m.  ILR Cases: Appropriate Programming to Minimize Inappropriate Data Collection
Amber Seiler, MSN, NP, FHRS, CEPS, CCDS. ConeHealth Medical Group HeartCare, Stokesdale, NC

4:50 p.m.  Pediatric Device Cases: Indications and Device Selection Options
Marie Shaner, MS. Penn State Univ. Childrens Hospital, Hershey, PA

5:10 p.m.  Pacing Cases in 2018: Evolving Role of His Bundle Pacing
Sarah A.. Worsnick, PAC, FHRS, CEPS, CCDS. Geisinger Health System, Scranton, PA

5:30 p.m.  ICD Cases: Who Gets the SQ-ICD versus a Transvenous System?
Scott W.. Kruchan, BSN, CCDS. Cleveland Clinic Foundation, Device Clinic, Cleveland, OH

5:50 p.m.  Panelist
Nancy A. Lee, ADN, FHRS, CCDS. The Arrhythmia Center, Collinsville, IL

5:50 p.m.  Panelist
Christian S.. Yacono, MHS, PAC, CCDS. Hospital of the University of Pennsylvania, Springfield, PA
Session B-040. THE EVOLVING ROLES OF ADVANCED PRACTICE CLINICIANS IN THE CARE OF EP PATIENTS

**Allied Professionals - Advanced Practice**
Room 210B 4:30 - 6 PM
Core Curriculum  PM
CME/CE Hours: 1.5
ASRT/ARRT: DCD0058020

**Session Description:** As healthcare changes, advanced practice clinicians continue to have an increasing participation and roles in the area of electrophysiology. This session will review how advanced practice clinicians are caring for patients in t

**Chairs:**
- Celine Gallagher, BSN. Centre for Heart Rhythm Disorders, University of Adelaide, Sefton Park, Australia
- Angela L. Krebsbach, PAC, CEPS. OHSU, Happy Valley, OR

**4:30 p.m.**
The Role of Advanced Practice Clinicians in the EP Lab
Mark D. Heimann, ACNP, CEPS, CCDS. Main Line Health Services and Cardiology Consultants of Philadelphia, Kennett Square, PA

**5 p.m.**
The Role of Advanced Practice Clinicians in the Clinic
Jill L. Schaeffer, MSN, CRNP, FHRS, CEPS, CCDS. The Heart Group, Stevens, PA

**5:30 p.m.**
The Evolving Role of Advanced Practice Clinicians in the Hospital
Vanessa M. Kalis, DNP, ACNP, RN. Coastal Cardiology of Orange County, Rancho Santa Margarita, CA

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Session B-042. POST-OPERATIVE ATRIAL FIBRILLATION: NEW INSIGHTS INTO MECHANISMS AND MANAGEMENT

**Basic Translational Science**
Room 253 4:30 - 6 PM
Joint Session  F
CME/CE Hours: 1.5
A Joint Session presented by the Canadian Heart Rhythm Society and European Working Group on Cardiac Cellular Electrophysiology

**Session Description:** Post-operative AF is a major clinical problem. The underlying mechanisms are poorly understood and optimal management approaches are still being defined. There is a need to better understand the underlying mechanisms to improve

**Chairs:**
- Carol Ann Remme, MD, PhD. Academic Medical Center, Amsterdam, Netherlands
- Francois Philippin, MD, FHRS. Institut Universitaire De Cardiologie Et De Pneumologie De Quebec, Quebec, QC, Canada

**4:30 p.m.**
Cardinal clinical features of post-operative atrial fibrillation and relevant animal models
Stanley Nattel, MD, FHRS. Montreal Heart Institute, Montreal, QC, Canada

**4:50 p.m.**
Cellular mechanisms of postoperative atrial fibrillation
Dobromir Dobrev, MD. University of Duisburg-Essen, Essen, Germany

**5:10 p.m.**
Role of oxidative stress in pathophysiology and management
Samuel C. Dudley, MD, PhD. University of Minnesota and the Lillehei Heart Institute, Minneapolis, MN

**5:30 p.m.**
New developments in pharmacotherapy of post-op atrial fibrillation
Denis Roy, MD, FHRs. Montreal Heart Institute, Montreal, QC, Canada

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Session B-041. CUSTOM-TAILORING ABLATION PROCEDURES BASED ON CARDIAC IMAGING

**Basic Translational Science - Cardiac Imaging**
Room 258A 4:30 - 6 PM
Translational Electrophysiology  F
CME/CE Hours: 1.5

**Session Description:** An expert in the physics of cardiac imaging provides an overview of key advantages and limitations of the approach. Then, a diverse groups of researchers discusses the most recent advances related to integration of imaging tech

**Translator:**
- Henry R. Halperin, MA, MD, FHRS. Johns Hopkins Hospital, Baltimore, MD

**4:30 p.m.**
Biophysics of cardiac imaging: What we can and cannot see
Graham Wright.

**5 p.m.**
Imaging-based guidance of ablation procedures
Saman Nazarian, MD, PhD, FHRS. The University of Pennsylvania, Philadelphia, PA

**5:20 p.m.**
Imaging-based characterization of ablation lesion quality
Ravi Ranjan, MD, PhD, FHRS. University of Utah, Salt Lake City, UT

**5:40 p.m.**
Identification of ablation targets with nuclear imaging
Timm-Michael Dickfeld, MD, PhD. UMD, Baltimore, MD

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Session B-044. THIS IS A BAD EXTRACTION DAY

**Cardiovascular Implantable Electronic Devices - Device Management**
Room 252 4:30 - 6 PM
Complication Theatre  F
CME/CE Hours: 1.5

**Session Description:** Problematic extractions will be presented and the panel will discuss how to manage the cases and complications.

**Chairs:**
- Martin Emert, MD, FHRS. The University of Kansas Hospital, Kansas City, KS
- Laurence M. Epstein, MD. Northwell Health

**4:30 p.m.**
Balloon-assisted Rescue of SVC Perforation
Roger Carillo. University of Miami Hospital

**4:50 p.m.**
Getting into trouble with old leads
Robert D. Schaller, DO. University of Pennsylvania, Philadelphia, PA

**5:10 p.m.**
Yikes! The Veg is Bigger than I Thought!
Steven P. Kutalek, MD, FHRS, CCDS. Drexel Univ College of Medicine - Hahnemann Univ Hospital, Philadelphia, PA

**5:30 p.m.**
Sprint Fidelis and Riata - Panoramic view of a decade long experience!
Samir F. Saba, MD, FHRS. Univ of Pittsburgh Medical Center, Pittsburgh, PA
Session B-043. SUBCUTANEOUS ICD FROM A TO Z
Cardiovascular Implantable Electronic Devices - Novel CIED Devices
Room 210C  4:30 - 6 PM
Core Curriculum  F PM
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Boston Scientific

Session Description: This core curriculum session will discover the topic on subcutaneous ICD from A to Z

Chairs:  Syeda A. Batul, MBBS, MD. Mount Sinai Hospital, New York, New York, NY
         Wojciech Zareba, MD, PhD. Univ of Rochester, Cardiology Division, Rochester, NY

4:30 p.m. When is the S-ICD the right choice? Patient selection and pre-implantation screening
Joseph E. Marine, MD, FHRS. Johns Hopkins University School of Medicine, Baltimore, MD

4:45 p.m. Preventing inappropriate shocks in patients with SQ ICDs - strategies for successful management
Sandeep Gautam, MD, MPH, FHRS. University of Missouri Health System, Columbia, MO

5 p.m. Implantation techniques: 2 or 3 incisions?
Subcutaneous or intermuscular?
Reinoud Knops, MD, PhD, CCDS. Academic Medical Center, Amsterdam, Netherlands

5:15 p.m. What's the evidence? Does real-world data support the results from RCTs?
Michael F. El-Chami, MD, FHRS. Emory University, School of Medicine, Atlanta, GA

5:30 p.m. Troubleshooting: Identifying and managing complications in the lab and during follow up
Rhea C. Pimentel, MD, FHRS. Mid-American Cardiology, University of Kansas Medical Center, Kansas City, KS

5:45 p.m. A mixed future - Combining S-ICD and leadless pacing
Lluis Mont, MD, PhD. Hospital Clinic, Universitat de Barcelona., Barcelona, Barcelona, Spain

Session B-045. LAA ARRHYTHMOGENESIS AND ELECTRICAL ISOLATION
Catheter Ablation - Ablation
Room 153  4:30 - 6 PM
Case Based Tutorial  ARS F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

Session Description: This session will explore the relevance of the LAA as a trigger for AF, the technique and energy sources to achieve left atrial appendage electrical isolation and the reported outcomes.

Chairs:  Luigi Di Biase, MD, PhD, FHRS. Albert Einstein College of Medicine at Montefiore Hospital, New York, NY
         Moledze Hocini, MD. CWT Meetings & Events, Mélissa PERNOT, Boulogne-Billancourt Cedex, France

4:30 p.m. LAA electrical isolation: when and to which patients
Stefano Bordignon, MD. CCB Markuskrankenhaus Frankfurt Germany, Frankfurt a.M., Germany

4:45 p.m. LAA electrical isolation: technique and energy sources
Sandeep Panikker, MBBS, PhD. University Hospitals Coventry and Warwickshire & Royal Brompton Hospital, Coventry, United Kingdom

5 p.m. LAA electrical isolation: reported outcomes following AF ablation
Jorge Romero, MD. Montefiore/Albert Einstein, New York, NY

5:15 p.m. LAA electrical isolation: what’s the stroke risk and when to occlude the LAA?
Juan F. Viles-Gonzalez, MD. Tulane University, New Orleans, LA

5:30 p.m. LAA exclusion is the best strategy to manage arrhythmogenesis
Yeruva Madhu Reddy. University of Kansas Medical Centre, KS

Session B-046. STRATEGIES FOR ADDRESSING ARRHYTHMIAS ARISING FROM THE LEFT VENTRICULAR SUMMIT
Catheter Ablation
Room 151  4:30 - 6 PM
Core Curriculum  F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

Session Description: This session will explore the different ablation strategies for approaching arrhythmias arising from the left ventricular summit.

Chairs:  Henry H. Hsia, MD. University of California - San Francisco, Burlingame, CA
         Jason T. Jacobson, MD, FHRS. Westchester Medical Center Division of Cardiology, Ossining, NY

4:30 p.m. Overview of LV Summit Anatomy and Electrocardiography
Marmar Vaseghi, MD, FHRS. UCLA Cardiac Arrhythmia Center, Los Angeles, CA, CA

4:45 p.m. Endocardial Approach to LV Summit Arrhythmias
Wendy S. Tzou, MD, FHRS. University of Colorado Denver, Aurora, CO

5 p.m. Epicardial Approach to LV Summit Arrhythmias
Andre d'Avila, MD, PhD. Hospital Cardiologico SOS Cardio, Florianopolis, SC, SC, Brazil

5:15 p.m. Mapping and Ablation in the Anterior Interventricular Vein
Fernin C. Garcia, MD. Hospital of the University of Pennsylvania, Philadelphia, PA

5:30 p.m. Role of Venous Ethanol Ablation for Treatment of LV Summit Arrhythmias
Miguel Valderrabano, MD. Houston Methodist Hospital, Houston, TX

5:45 p.m. Surgical Options for Ablation of LV Summit Arrhythmias
Roderick Tung, MD, FHRS. University of Chicago, Chicago, IL
Session B-047. CAN WE PREVENT ATRIAL FIBRILLATION?

Clinical Electrophysiology - AF Mechanisms and Prevention
Room 157 4:30 - 6 PM
Core Curriculum F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

Session Description: Ever heard of cure being better than prevention? Of course not! Come to this session to find out why you should try pick up AF earlier and how you can work with your patients to help prevent it.

Chairs:
Paulus Kirchof, France
Irina Savelieva, MD. St. George’s University of London, London, United Kingdom

4:30 p.m.
Risk Factor Management and Atrial Fibrillation Clinics
Prashanthan Sanders, MBBS, PhD, FHRS. University of Adelaide, Royal Adelaide Hospital and SAHMRI, Adelaide, SA, Australia

4:50 p.m.
Strokes in AF - The Most Important Prevention of All?
Richard I. Fogel, MD, FHRS, CCDS. St Vincent Medical Group, Indianapolis, IN

5:10 p.m.
Genetic Modulation for AF Prevention
J. Kevin Donahue, MD. University of Massachusetts School of Medicine, Worcester, MA

5:30 p.m.
Upstream factors on the clinical horizon to help prevent AF
Jose Jalife, MD, FHRS. University of Michigan, Ann Arbor, MI

Session B-048. HOW TO MANAGE CARDIAC SARCOIDOSIS

Clinical Electrophysiology - Risk Stratification for Sudden Cardiac Death
Room 156 4:30 - 6 PM
How-To ARS F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Biosense Webster, Inc.

Session Description: This session aims at promoting knowledge about diagnostic and therapeutic steps to take in (suspected) cardiac sarcoidosis including treatment options in advanced (arrhythmogenic) cardiac sarcoidosis

Chairs:
Isabel Deisenhofer, MD. German Heart Center Munich, Department of Electrophysiology, Munich, Germany
William H. Sauer, MD, FHRS, CCDS. University of California-San Francisco, Cardiac EP, San Francisco, CA

4:30 p.m.
Ventricular Tachycardia in Cardiac Sarcoidosis: When to ablate, How to ablate?
Katja Zeppenfeld, MD, PhD. Leiden University Medical Center, Leiden, Netherlands

4:52 p.m.
Immunosuppressive therapy for Cardiac Sarcoidosis: Does it influence the arrhythmia burden?
David H. Birnie, MD. Ottawa Heart Institute, Ottawa, ON, Canada

5:14 p.m.
Arrhythmias in cardiac sarcoidosis: What device at what time?

Christof Kolb, MD. Deutsches Herzzentrum München, Munich, Germany
5:36 p.m.
MRI, PET scan...: What is the best imaging modality to diagnose cardiac sarcoidosis?
Rory Hachamovitch, MD, MSc. Department of Cardiovascular Medicine, Cleveland Clinic, Highland Hts, OH

Session B-050. LOCALIZATION INSIGHTS FROM THE ELECTROCARDIOGRAM

Clinical Electrophysiology
Room 162 4:30 - 6 PM
Joint Session F PM
CME/CE Hours: 1.5
A Joint Session presented by the Middle East and North Africa Heart Rhythm Society

Session Description: This session will provide an update on the recent advances in the localization of arrhythmia foci on 12 lead electrocardiograms (ECGs). The central role of ECGs in the diagnosis and treatment strategy in different arrhythmias

Chairs:
Melvin M. Scheinman, MD, FHRS. Univ of California-San Francisco, Cardiac EP, San Francisco, CA
Ali Oto, MD, FHRS. Hacettepe Univ, School of Medicine, Div of Cardiology, Ankara, Turkey

4:30 p.m.
From P wave morphology to the Site of Origin of Supraventricular Tachycardia
Gamal Shaban, MD. Egyptian National Heart Institute, Cairo, Egypt

4:45 p.m.
ECG localization of Accessory Pathways
Melvin M. Scheinman, MD, FHRS. Univ of California-San Francisco, Cardiac EP, San Francisco, CA

5 p.m.
ECG localization of PVCs Originating from the Outflow Tracts
Marwan M. Refaat, MD, FHRS. American University of Beirut, Department of Internal Medicine, Beirut, Lebanon

5:15 p.m.
ECG localization of PVCs Originating from the Mitral Annulus and the Epicardium
Mohammad Shenas, MD, PhD, FHRS. Heart & Rhythm Medical Group, Monte Sereno, CA

5:30 p.m.
ECG localization of PVCs Originating from the Purkinje System
Abdulmohsen M. Almusaad. Krngh, Riyadh, Saudi Arabia

5:45 p.m.
ECG localization of PVCs Originating from the coronary sinus
Nidal Asaad. Heart Hospital
THURSDAY

Session B-051. MANAGEMENT OF SADS CONDITIONS: WHAT'S NEW & WHAT'S COMING?
Clinical Electrophysiology
Room 107 4:30 - 6 PM
Joint Session F
CME/CE Hours: 1.5
A Joint Session presented by the SADS Foundation

Session Description: This session will introduce attendees to the leading medical experts in the field of inherited cardiac channelopathies. Conditions to be discussed are CPVT, Brugada Syndrome, and LQTS-3. Presented in a question and answer format.

Chairs: Sami Viskin, MD. Tel Aviv Medical Center, Tel Aviv, Israel
Susan P., Etheridge, MD, FHRS, CEPS-P. Univ of Utah, Dept Pediatric Cardiology, Salt Lake City, UT

4:30 p.m. CPVT Therapy: Cures on the Horizon?
Silvia G. Priori, MD, PhD. University of Pavia & ICS Maugeri, Pavia, Italy

4:50 p.m. Personalized Medicine for SADS Patients
Martin Tristani-Firouzi, MD. University of Utah, Pediatric Cardiology, Salt Lake City, UT

5:10 p.m. ICDs and ablations for Brugada Syndrome
Arthur A. M. Wilde, MD, PhD. Univ of Amsterdam - Academic Medical Center, Amsterdam, Netherlands

5:30 p.m. Desmosomes, Sodium Channels & Gap Junctions: Is ARVC an Overlap Disease?
Mario Delmar, MD, PhD, FHRS. New York University School of Medicine, New York, NY

Session B-049. SYCONE & AUTONOMIC DISORDERS FOR THE CARDIAC ELECTROPHYSIOLOGIST
Clinical Electrophysiology
Room 205A 4:30 - 6 PM
Joint Session F
CME/CE Hours: 1.5
A Joint Session presented by the American Autonomic Society

Session Description: This joint session will provide updates on the understanding and state of the art management of clinical autonomic disorders, including syncope, postural tachycardia syndrome (POTS), and orthostatic hypotension. While these dis

Chairs: Satish R., Raj, MD, MS, FHRS. Libin Cardiovascular Institute of Alberta, Calgary, AB, Canada
Win-Kuang Shen, MD, FHRS. Mayo Clinic College of Medicine, Mayo Clinic Arizona, Phoenix, AZ

4:30 p.m. Syncope Management - Role of the Syncope Expert
Robert S., Sheldon, MD, PhD, FHRS. Univ of Calgary Health Sciences Centre, Calgary, AB, Canada

4:50 p.m. POTS - A Practical Approach to Management
Thomas S. Ahern, MD, CCDS. Scripps Clinic, La Jolla, CA

5:10 p.m. Spectrum of Orthostatic Hypotension & Novel Therapies
Cyndya Shibao. Vanderbilt University Medical Center, Nashville, TN

5:30 p.m. Salt, Water & Blood Volume - What is the evidence?

Session B-052. TOO FAST OR TOO SLOW? THE IMPORTANCE OF HEART RATE IN HEART FAILURE PATIENTS
Heart Failure - Clinical Trials
Room 257 4:30 - 6 PM
Case Based Tutorial F PM
CME/CE Hours: 1.5

Session Description: This session will review the data regarding heart rates in patients with heart failure. How to decide if the rates are "just right" and strategies to achieve and assess heart rate response will be reviewed.

Chair: Brian Olshansky, MD, FHRS. Univ of Iowa Hospital and Clinics, IM Dept, Cardiovascular Medicine Div, Iowa City, IA

4:30 p.m. The Prognostic Value of Resting and Exercise Heart Rates in Heart Failure.
Bruce L., Wilkoff, MD, FHRS, CCDS. Cleveland Clinic, Cleveland, OH

4:50 p.m. The Effect of Heart Failure Medication on Resting and Exercise Heart Rates.
JoAnn Lindenfeld. Vanderbilt University, Nashville, TN

5:10 p.m. What is the Target Heart Rate in Atrial Fibrillation?
Pharmacologic Options in Heart Failure Patients
Peter R. Kowey, MD, FHRS. Lankenau Medical Center, Wynnewood, PA

5:30 p.m. The Importance of Heart Rate: How to Assess and Achieve Heart Rate Response in the CRT Patient
Jonathan P., Piccini, MD, MHS, FHRS. Duke University Medical Center, EP, Durham, NC

Session B-053. OMG! WHAT DO I DO NOW?
Heart Failure - Device Therapy
Room 254 4:30 - 6 PM
Complication Theatre F PM
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Boston Scientific

Session Description: This session deals with complications in the HF patient with an implanted device. This could be either intra or post-procedural. Strategies to deal with urgent or delayed complications are discussed here, as well as implantatio

Chairs: Hakan Paydak, MD, FHRS. University of Arkansas for Medical Sciences Program, Little Rock, AR
Conor D., Barrett, MD. Massachusetts General Hospital Heart Center; Cardiac Arrhythmia Service, Boston, MA

4:30 p.m. I have Dissected the Coronary Sinus: When Do I Proceed and When Do I Stop?
Bryan Baranowski. Vanderbilt University Medical Center, Nashville, TN

4:50 p.m. Delayed Pericarditis and Tamponade in my CRT Patient: What do I do now?
Theofanie Mela, MD. Massachusetts General Hospital, Boston, MA
5:10 p.m. THURSDAY
My 42 year old CRT Patient is post PVI and now has an Atypical flutter: What do I do Now?
Stephan Willems, MD. University Heart Centre Hamburg, Hamburg, Germany

5:30 p.m. 
My LVAD patient has an Infected ICD: What do I do now?
Marye J. Gleva. Washington University School of Medicine, Saint Louis, MO

5:50 p.m. 
My Patient Has a CS Anomaly: How Do I Implant an LV Lead While Avoiding Risks of an Epicardial Lead?
Seth J. Worley, MD, FFRS. Earleville, MD

Session B-055. BIOCHEM 101: A MUST FOR YOUR MAJOR
Pediatrics and Adult Congenital Heart Disease - Bench & Translational Room 205B 4:30 - 6 PM
Core Curriculum F PM
CME/CE Hours: 1.5

Session Description: This session is on translational science and the merging of basic science with clinical EP. The speaker will present cutting edge science and how it relates to clinical EP and patient care. They will be allowed 15 minutes for

Chairs: Andras Bratincsak, MD. Honolulu, HI
Johan M. Bos, MD, PhD. Mayo Clinic, Rochester, MN

4:30 p.m. 
Biomarkers for the Electrophysiologist
Robert M. Hamilton, MD. The Hospital for Sick Children, Toronto, ON, Canada

4:50 p.m.
Calcium Signaling and Arrhythmias
Prince J. Kannankeril, MD, MS, FFRS, CEPS-P. Vanderbilt Children’s Hospital, Div of Pediatric Cardiology, Nashville, TN

5:10 p.m.
Hormones and Ion Channels
Silvia G. Priori, MD, PhD. University of Pavia & ICS Maugeri, Pavia, Italy

5:30 p.m.
Stem Cells, Electrophysiology and the Joy of Personalized Medicine
Martin Tristani-Firouzi, MD. University of Utah, Pediatric Cardiology, Salt Lake City, UT

Session B-054. THE MARRIAGE OF ACHD AND ELECTROPHYSIOLOGY: A LIFETIME TOGETHER
Pediatrics and Adult Congenital Heart Disease - Etiology, Diagnosis, and Management
Room 204 4:30 - 6 PM
Core Curriculum F PM
CME/CE Hours: 1.5

Session Description: This session will start with a TED style talk by a leader in the field of ACHD and EP and outline some of the future therapy for this population. There are a series of standard didactic talks. There will be a Q/A after

Chairs: Seshadri Balaji, MBBS, PhD. Oregon Health and Science University, Portland, OR

4:30 p.m. 
Ted Style Talk: Predicting the Future, Preventing Arrhythmias in ACHD Patients
Paul Khairy, MDCM, PhD. Montreal Heart Institute, Montreal, QC, Canada

4:45 p.m. 
The Switch to the Switch: I Saw It Happen. Did it Solve Everything?
Edward P. Walsh, MD, CEPS-P. CCDS. Boston Children’s Hospital, Boston, MA

5 p.m. 
Ebstein Malformation: Sweet Dreams or an Arrhythmia Nightmare?
Bryan C. Cannon, MD, FFRS, CEPS-P, CCDS. Mayo Clinic, Rochester, MN

5:15 p.m. 
Heterotaxy: Ablation When It Is All Backwards
Michael R. Epstein, MD, CEPS-P, CCDS. Congenital Heart, Scarborough, ME

5:30 p.m. 
Atrial Fibrillation Ablation in the Fontan Patient: Are We Ready?
Sylvia Abadir, MD, CCDS. Sainte-Justine Hospital, Outremont, QC, Canada

Session B-SP21. GLOBAL HUMANITARIAN SESSION: LOGISTICAL, PRACTICAL, AND REGULATORY CONSIDERATIONS
Policy, Payment, and Practice - Advanced Practice Room 206 4:30 - 6 PM
Special Session F PM
CME/CE Hours: 1.5

Session Description: This session will present first-hand accounts of working in global humanitarian efforts specific to cardiac electrophysiology.

Chairs: Kevin R. Campbell, MD. PaceMate, Raleigh, NC
Stephen C. Vlay, MD, FFRS. Stony Brook Univ, Stony Brook, NY

4:30 p.m. 
Practical Considerations regarding reuse of pacemakers
David T. Martin, MD, FFRS, CCDS. Lahey Hospital and Medical Center, Waban, MA

4:45 p.m. 
FDA: Regulatory Considerations
Brian Lewis, MD. US Food and Drug Administration, Silver Spring, MD

5 p.m. 
Providing Heart Rhythm Care in Mexico and Central America
Luis Molina. Laboratorio de Arritmias, Hospital General, Mexico City, DF, Mexico

5:15 p.m. 
Planning a Medical Mission, from Heart to Heart
Moenen A. Saleem, MD. Midwest Heart Specialists, Oak Brook, IL

5:30 p.m. 
CardioStart International: Educating and assisting medical teams to provide cardiovascular care across the globe
Philip Wendschuh, MD, CCDS. North Ohio Heart Center, Avon, OH

5:45 p.m. 
Giving Back: Donations & What Can We Do from Home
Behzad B. Pavi, MD, FFRS. Thomas Jefferson Univ Hospital, Philadelphia, PA
THURSDAY

Session B-056. INNOVATIONS IN CARDIAC IMPLANTABLE ELECTRONIC DEVICES
Special Session - Device and Lead Management Considerations (including Lead Extraction)
Ballroom East, BCEC 4:30 - 6 PM
Featured Symposium ARS F
CME/CE Hours: 1.5
Supported by an unrestricted educational grant provided by Boston Scientific

Session Description: Innovative technology provides a wide variety of options for the care of patients with heart failure or heart rhythm disorders. This session will describe state-of-the-art care involving cardiac resynchronization therapy, as we

Chairs: Sanjeev Saksena, MBBS, MD, FHRS. Cardiac Electrophysiology PA, Warren, NJ
Pier D. Lambiase, MBChB, FHRS. The Heart Hospital, Cardiology, Edgware, United Kingdom

4:30 p.m. Leadless Pacing: Present Status and Future Innovations
Mikhael F. El-Chami, MD, FHRS. Emory University, School of Medicine, Atlanta, GA

4:50 p.m. The Totally Subcutaneous ICD: Advantages and What Is Missing?
Michael R. Gold, MD, PhD, FHRS. Medical Univ of South Carolina, Charleston, SC

5:10 p.m. Advancements in Cardiac Resynchronization Therapy
Angelo Auricchio, MD, PhD. Fondazione Cardiocentro Ticino, Lugano, Switzerland

5:30 p.m. Cardiac Contractility Modulation: Does it Improve Outcomes in Patients with Chronic Heart Failure?
Martin M. Borggrefe, MD, PhD. Univ of Heidelberg, I Medizin Klinik, Mannhen, Germany

Session B-057. MAPPING AND ABLATION OF VENTRICULAR ARRHYTHMIA IN NICM: SPECIAL CONSIDERATIONS
Special Session Room 259 4:30 - 6 PM
Joint Session 4:30 - 6 PM
CME/CE Hours: 1.5
A Joint Session presented by the Taiwan Heart Rhythm Society

Session Description: In this session, we will aim to understand the pathophysiology of NICM VT, substrate characteristics, mapping strategy, and ablation outcome in NICM patients. We will also focus on certain specific groups of NICM patients respe

Chairs: Shih-Ann Chen, MD. Taipei Veterans General Hospital, Taipei, Taiwan
Haris M. Haqqani, MBBS, PhD, FHRS. University of Queensland, The Prince Charles Hospital, Chermside, QLD, Australia

4:30 p.m. The analysis of NICM electrogram responsible for ventricular arrhythmogenesis: by HHT processing
Yenn-Jiang Lin, MD, PhD. Taipei Veterans General Hospital, Taipei, Taiwan

4:50 p.m. Septal substrates in NICM: from ECG, substrates characteristics and ablation strategy

Session B-SP47. CHINA CASES OF EXCELLENCE
Special Session Room 160 4:30 - 6 PM
Special Session 4:30 - 6 PM
CME/CE Hours: 1.5

Chairs: De Jia Huang, MD, FHRS. West China Hospital, Dept of Cardiology, Chengdu, Sichuan, China
T. Jared Bunch, MD. Intermountain Heart Rhythm Specialists; Eccles Outpatient Care Center, Murray, UT

4:30 p.m. ICD or CRT-D, Which One Is the Right Choice for This Case?
Xiaohan Fan, MD. State Key Laboratory of Cardiovascular Disease, De, Beijing, China

4:50 p.m. A Case of Difficult Handling in the Implantation of Quadripola Left Ventricular Lead
Lang He. China

5:10 p.m. A Case of Repeated Syncope with Affective Disorders and Hypertrophic Cardiomyopathy
Yijia Tang. Institution Name, China

5:30 p.m. Pacing-Dependent Patient with Heart Failure Upgraded to CRT-D
Yuanhong Liang. Guangdong General Hospital, China

5:50 p.m. A Case of AF & III°AVB, or BiV?
Yuanning Xu, MD. West China Hospital, Chengdu, 51, China

Session B-SP20. WANT TO HAVE A FLOURISHING EARLY CAREER EP PRACTICE? YOU NEED TO KNOW THESE TOP 5’S
Special Session - Advanced Practice Room 109 4:30 - 6 PM
Special Session 4:30 - 6 PM
CME/CE Hours: 1.5

Session Description: Cardiac Electrophysiology (EP) is rapidly growing with major advances in research, innovation, and technology driving the change. The first five years after EP fellowship is a critical time for academicians, practitioners, and

Chairs: Sandeep K. Goyal, MD, FHRS. Piedmont Hospital, Atlanta, GA
Rakesh Gopinathannair, MA, MD, FHRS. University of Louisville School of Medicine, Cardiology/EP, Louisville, KY

4:30 p.m. Establishing a Successful EP Clinical Research Program at your Institution – The Top 5 things to know
Dhanunjaya R. Lakkireddy, MD, FHRS. Mid-America Cardiology Associates, University of Kansas Health System, Leawood, KS

4:48 p.m. Learning new skills and developing your niche during early career: Top 5 tips and tricks

Pugazhendhi Vijayaraman, MD, FHRS. Geisinger Heart Institute, Wilkes- Barre, PA

5:06 p.m. Educating peers, colleagues, referring physicians, and patients. Tips and tricks
Janet K. Han, MD. University of California Los Angeles / VA Greater Los Angeles Healthcare System, Los Angeles, CA

5:24 p.m. Top 5 advances that will change your EP practice in the next 5 years
Prashanthan Sanders, MBBS, PhD, FHRS. University of Adelaide, Royal Adelaide Hospital and SAHMRI, Adelaide, SA, Australia

5:42 p.m. EP Physicians transforming as EP leaders – top 5 reasons why it is critical in the current environment
Andrea M. Russo, MD, FHRS. Cooper University Hospital, Moorestown, NJ