WELCOME!
Welcome to San Francisco and the 40th Annual Heart Rhythm Scientific Sessions! This week, the finest clinicians, scientists, researchers, and innovators from the global heart rhythm community gather to share groundbreaking research and scientific achievements. We’ll celebrate not only the advancements that forge our path forward, but also the remarkable strides made during the first four decades of cardiac pacing and electrophysiology. We’ll be inspired by the authors of 1,300+ abstract submissions, energized by investigators of the always-anticipated Late-Breaking Clinical Trials, enlightened by 700 distinguished faculty members, and exhilarated along with more than 12,000 attendees, all committed to improving the lives of patients with heart rhythm disorders.

Together, we’ll juggle endless opportunities to learn, network, and engage — from the Opening Plenary, featuring world renowned journalist Guy Raz, to the most respected experts in the field featured during three full-day Summits. Four days is not enough time for nine tracks of core curriculum, forums and featured symposia, quiz bowls and master classes, live cases and lively debates, and Mini Courses and Meet the Experts. Not to worry — Heart Rhythm On Demand captures it all so you won’t miss a thing.

We’ll walk the Exhibit Hall floor and explore more than 140 organizations showcasing their products and services, peruse aisles upon aisles of scientific posters, and visit the HRS EPicenter to learn more about membership, programs, and services.

Together, we’ll make the most of every moment of Heart Rhythm 2019. Thank you for joining us.

Sincerely,

Christine M. Albert, MD, MPH, FHRS
Program Chair

40th Annual Heart Rhythm Scientific Sessions

The Medtronic AF ADVANTAGE
Stop by our booth to find out how our portfolio can help you manage atrial fibrillation (AF) in your patients.

Medtronic.com/AFAdvantage

The cryoballoon is indicated for the treatment of drug refractory, recurrent, symptomatic, paroxysmal atrial fibrillation.

The Medtronic
AF ADVANTAGE

Stop by our booth to find out how our portfolio can help you manage atrial fibrillation (AF) in your patients.

Medtronic.com/AFAdvantage

The cryoballoon is indicated for the treatment of drug refractory, recurrent, symptomatic, paroxysmal atrial fibrillation.
Contraindications: The SureScan transvenous pacing systems are contraindicated for patients with atrial fibrillation or atrial flutter in whom atrial pacing is beneficial and for providing cardiac resynchronization therapy in heart failure patients on stable, optimal heart failure therapy (i.e., Fick-index). See indications and contraindications of the Medtronic SureScan systems for MR-guided procedures.

To verify that components are part of a SureScan system, visit Medtronic’s website at medtronic.com or consult the Medtronic website at medtronic.com or consult the Medtronic website at medtronic.com.

Medtronic at 1-800-328-2518 and/or consult the Medtronic website at medtronic.com or consult the Medtronic website at medtronic.com.

Medtronic at 1-800-328-2518 and/or consult the Medtronic website at medtronic.com.

Optimized heart failure medical therapy that is limited to MR-safe or the need for pacemaker双重 pacing do not post-implant.

Contraindication: Use of the cryoballoon is contraindicated: 1) In patients with active systemic infections, and 5) In conditions in which the manipulation of the catheter within the heart would be dangerous, e.g., near the left atrial appendage, areas of increased risk of cardiac arrhythmias, or patients who experience device complications/adverse events. For further information, call Medtronic at 1-800-328-2518 and/or consult the Medtronic website at medtronic.com.

Potential Complications: Do not ablate in the tubular portion of the pulmonary vein. Use with caution in patients with atrial fibrillation. If indicated, and meet any of the following classifications:

- NYHA Functional Class IV
- LVEF ≤ 35%
- LVEF ≤ 35% and NYHA Functional Class III
- LVEF ≤ 35% and NYHA Functional Class III and atrial fibrillation/flutter
- On optimal heart failure medical therapy with a mean pulmonary capillary wedge pressure ≥ 15 mmHg
- On optimal heart failure medical therapy with NYHA Functional Class IV
- Mean pulmonary capillary wedge pressure ≥ 15 mmHg
- Mean pulmonary capillary wedge pressure ≥ 15 mmHg and atrial fibrillation/flutter

In the ventricle because of the danger of catheter entrapment in the chordae tendineae, 2) In patients with one or more pulmonary vein stents, 3) In patients with cryoglobulinemia, 4) In patients with systemic sclerosis, 5) In conditions in which the manipulation of the catheter within the heart would be dangerous, e.g., near the left atrial appendage, areas of increased risk of cardiac arrhythmias, or patients who experience procedure complications/adverse events.

Heart failure patients on stable, optimal heart failure therapy (Fick-index). See indications and contraindications of the Medtronic SureScan systems for MR-guided procedures.
Get online.
Get prepared.
Get certified.

CARDIAC DEVICE EDUCATION

AND SELF-ASSESSMENT COURSE

*Completing this online course does not guarantee successful completion of the CCDS exam. This course does not cover all topics included in the CCDS Exam Blueprint.*

LEARN MORE TODAY!
Please stop by the IBHRE Lounge, located in Hall F for a preview of the CDESA course.
Thursday, May 9 at 11:00 AM

*"Completing this online course does not guarantee successful completion of the CCDS exam. This course does not cover all topics included in the CCDS Exam Blueprint."*
By attending the 40th Annual Heart Rhythm Scientific Sessions, participants can claim credit directly from HRS for a maximum of:

- 23 AMA PRA Category 1 Credits™
- 23 American Board of Internal Medicine (ABIM) Maintenance of Certification (MOC) points
- 23 American Board of Pediatrics (ABP) Maintenance of Certification points
- 22.75 American Society of Radiologic Technologists (ASRT)/American Registry of Radiologic Technologists (ARRT) Category A CE credits

This event has been submitted to the National Society of Genetic Counselors (NSGC) for approval of Category 1 CEUs. The American Board of Genetic Counseling (ABGC) accepts CEUs approved by NSGC for purposes of recertification. Approval for the requested CEUs and Contact Hours is currently pending.

A Credit Certificate for (physicians) or Certificate of Participation (for non-physicians) will be provided to individuals seeking credit from the following organizations, which accept AMA PRA Category 1 Credits™ or have identified credit awarded by ACCME-accredited providers as being “substantially equivalent” to their own. Note that participants are advised to contact their certifying body for specific information regarding credit submissions:

- American Academy of Family Practice (AAFP) for elective credit
- American Academy of Nurse Practitioners Certification Board (AANPCB)
- American Academy of Physician Assistants (AAPA)
- American Nurses Credentialing Center (ANCC)
- American Osteopathic Association (AOA) for Category 2 credit
- Committee on Accreditation of Continuing Medical Education (Canada)
- European Board of Accreditation in Cardiology (EBAC)
- European CME Credits (ECMEC)
- German Chambers of Physicians
- Oman Medical Specialty Board
- Qatar Council for Health Practitioners
- Royal College of Physicians and Surgeons of Canada

ACCME ACCREDITATION STATEMENT
The Heart Rhythm Society is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA CREDIT STATEMENT
The Heart Rhythm Society designates this live activity for a maximum of 23 AMA PRA Category 1 Credits™ for the purpose of granting ABIM MOC credit.

ABIM MOC STATEMENT
Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 23 MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider’s responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

ABP MOC STATEMENT
Successful completion of this CME activity, which includes participation in the activity, with individual assessments of the participant and feedback to the participant, enables the participant to earn up to 23 MOC points in the American Board of Pediatrics’ (ABP) Maintenance of Certification (MOC) program. It is the CME activity provider’s responsibility to submit participant completion information to ACCME for the purpose of granting ABP MOC credit.

HOW TO CLAIM CREDIT, MOC POINTS, AND CERTIFICATE OF PARTICIPATION

HOW TO CLAIM CREDIT
Attendees can access their Heart Rhythm 2019 certificates beginning Thursday, May 9, 2019. To claim credit, follow these steps:

1. Log in from the Mobile App or the Online Itinerary Planner at www.HRSonline.org/Navgate. Use your Badge ID, located on your badge, and your Last Name to log in.
2. Go to “My Credit Cart.” Sessions will be pre-populated using Beacon data, or you can import sessions from “My Itinerary” or the Mobile App. Review for accuracy. You may add sessions that are missing (find sessions by searching from the Home screen) or delete sessions that you did not attend.
3. Complete the required “Overall Meeting Evaluation” and the optional session evaluations.
4. To claim MOC points, complete the relevant ABIM or ABP MOC Assessment questions. Be sure to claim your CME points prior to submitting your assessment. The amount of CME claimed will equal the amount of MOC points awarded. You must complete the assessment no later than Friday, June 7, 2019. You will receive notification of points submitted by HRS by Saturday, June 29, 2019.
5. Generate and print/email your certificate.

For online assistance, go to the CME Counter in the Registration Area, North Lobby, beginning Thursday, May 9 at 7:00 AM. After the meeting, email us at CME@HRSonline.org for assistance.

For more extensive instructions, go to the App’s homepage and select ‘How to Claim Credit.’

DISCLOSURES
Heart Rhythm Society (HRS) is committed to the provision of Continuing Medical Education (CME) that is balanced, objective, and evidence based. HRS adheres to the Standards for Commercial Support (SCS) of the Accreditation Council for Continuing Medical Education (ACCME), which requires that those individuals in a position to control the content of an educational activity (including planners, faculty, authors, committee members, content reviewers, editors, and staff) disclose all relevant financial relationships (for self and for spouse/partner) with an ACCME-defined commercial interest within the 12 months prior to the disclosure. These disclosures will be available via the Online Itinerary Planner and Mobile App prior to the activity.

Any individual who refuses to disclose financial relationships is disqualified from participating in HRS educational activities. Employees of ACCME-defined commercial interests can have no role in the planning or implementation of CME activities related to their products or services without the exception from the HRS Chief Learning Officer that is granted only in specific circumstances that meet stringent ACCME requirements:

- when the content of the individual’s role in the CME activity is not related to the business lines or products of the employer;
- when the content of the individual’s role in the accredited CME activity is limited to basic science research;
- for technicians that teach the safe and proper use of medical devices.

REPORTING CONFLICT OF INTEREST OR BIAS

 Allegations of conflict of interest and bias are taken seriously and are investigated by the Ethics Oversight Committee, Scientific Sessions Program Committee, and/or the Education Committee. Your complaint will be referred to the appropriate committee, and you will be informed in writing of the outcome of its review and decision. Submit a confidential complaint by completing the form at www.HRSonline.org/COI, or submit an email message to scientific.sessions@HRSonline.org.
LEARNING OBJECTIVES

PROGRAM OVERVIEW

Sessions described in this program, excluding pages 31-34, are organized by the Heart Rhythm Society Scientific Sessions Program Committee by world-renowned faculty who have been asked to speak at the 40th Annual Heart Rhythm Scientific Sessions.

After completion of this activity, participants will be able to:

1. Identify and analyze the latest scientific advances and innovations in the field of heart rhythm disorders.
2. Select appropriate, evidence-directed treatment options to achieve optimal outcomes for patients with heart rhythm disorders.
3. Recognize alternative perspectives regarding areas of controversy for which scientific evidence is insufficient, controversial, or confusing.
4. Utilize quality improvement measures, methods, and tools to foster systems-based improvements in care, outcomes, and value for patients with heart rhythm disorders.
5. Recognize the value of interprofessional teams, care coordination, patient engagement, and enhanced communication to optimize patient- and family-centered care.
6. Assess the impact of healthcare reform on the care delivered to patients with heart rhythm disorders.

Educational sessions at the Scientific Sessions are planned with the following session types, and sorted into tracks to assist attendees in finding relevant topics of interest.

In addition, session tags sort sessions further. Sessions marked with (a) are limited to those who have paid for the Premier Registration Category. Sessions marked (g) are geared towards the learning needs of Fellows-in-Training. The (g) indicates sessions that incorporate Practice Management information, and those with (q) incorporate Quality Improvement lessons.

SESSION TYPES

CBT Case-Based Tutorials Teaching groups encouraging audience discussion with faculty, cases will utilize an Audience Response System (ARS).
CT Complication Theater These 90-minute sessions are case-based learning sessions, featuring complicated cases and the resulting learning opportunities.
CC Core Curricula Didactic sessions in all major categories that provide comprehensive, timely information relevant to the care of patients and/or research.
DB Debates Spiced debate sessions on controversial issues.
SY Featured Symposia Cross-discipline showcase sessions with subject matter experts.
HP Hyde Park Corner A freestanding, slideless session where an appointed speaker introduces new or controversial ideas or techniques.
HT How-To Didactic sessions that teach how high-level clinical procedures are performed.
MBR Mini Board Review Held on Saturday morning, these didactic sessions will review complex questions from the board exam or IBHRE exam.
MC Mini-Courses Didactic courses providing in-depth updates on hot, new topics followed by a question and answer period.
ME Meet-the-Experts These 60-minute “brown bag” lunchtime sessions provide a scholarly exchange of information between experts and interested clinicians.
PU Pioneers Unplugged Pioneers in the field of EP highlight the history, technical changes, and evolution of modern practice and patient care.
RF Rapid Fire Cases These 90-minute, case-based learning sessions feature 4-6 case presentations followed by an expert panel discussion and Q&A.
TE Translational Electrophysiology Sessions These sessions are intended to help scientists better frame research questions in terms of clinical problems while enhancing the evidence-based practice of clinicians. Instead of a session chair, each TE Session is assigned a Translator, chosen for his/her recognized ability in applying fundamental scientific principles to the clinical practice of electrophysiology.
AB/PO/MP Oral/Poster/Moderated Poster Abstracts Presentations in oral and poster formats that provide the most up-to-date scientific research.
SP Special Sessions Examples include Opening Plenary Session, Allied Professionals Networking Luncheons, Women in EP Networking Luncheon, Young Investigator Awards Competition, and Awards and Recognition Ceremony.

SPECIALTY TRACKS

AP Allied Professionals
BS Basic Translational Science
CIED Cardiovascular Implantable Electronic Devices
CA Catheter Ablation
CEP Clinical Electrophysiology
HF Heart Failure
PEDI Pediatric and Adult Congenital Heart Disease
PPP Policy, Payment, and Practice
SP Special Sessions

SESSION TAGS

Premier Session
Fellows-in-Training
Practice Management
Quality Improvement
**WEDNESDAY, MAY 8**

**7:00 AM – 7:45 AM**

**S-SPE1**
Special Session
Allied Professionals Orientation
Limited Seating

**8:00 AM – 9:30 AM**

**S-SPE2**
Special Session
Opening Plenary: Celebrating Our Past, Forging Pathways for Our Future

**10:00 AM – 12:00 PM**

**Mini-Course**
The Difficult Coronary Sinus Lead

**Mini-Course**
Ablation of Summit PVCs

**Mini-Course**
All About Primary Electrical Disease

**Mini-Course**
Managing Arrhythmias in HF Patients: Insights from Recent Clinical Trials

**Mini-Course**
Little Patients Can Be Big Challenges

**10:00 AM – 12:00 PM**

**Allied Professionals Forum**
Multidisciplinary Care of the Cardiac Arrhythmia Patient: Part I

**Allied Professionals Forum**
Multidisciplinary Care of the Cardiac Arrhythmia Patient: Part II

Credit values are subject to change. Please visit the Online itinerary Planner or Mobile App for updated credit values.

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**11:00 AM – 2:00 PM**

**Mini-Course**
Contemporary Review of the Management of Patients With Cardiac Devices: From Implant to Clinic - Part II

**Mini-Course**
Contemporary Review of the Management of Patients With Cardiac Devices: From Implant to Clinic - Part III

**Mini-Course**
Ablation of Summit PVCs

**Mini-Course**
All About Primary Electrical Disease

**Mini-Course**
Managing Arrhythmias in HF Patients: Insights from Recent Clinical Trials

**Mini-Course**
Little Patients Can Be Big Challenges

**11:00 AM – 2:00 PM**

**Allied Professionals Forum**
Multidisciplinary Care of the Cardiac Arrhythmia Patient: Part I

**Allied Professionals Forum**
Multidisciplinary Care of the Cardiac Arrhythmia Patient: Part II

Credit values are subject to change. Please visit the Online itinerary Planner or Mobile App for updated credit values.

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**12:00 PM – 1:00 PM**

**Mini-Course**
Contemporary Review of the Management of Patients With Cardiac Devices: From Implant to Clinic - Part III

**Mini-Course**
Ablation of Summit PVCs

**Mini-Course**
All About Primary Electrical Disease

**Mini-Course**
Managing Arrhythmias in HF Patients: Insights from Recent Clinical Trials

**Mini-Course**
Little Patients Can Be Big Challenges

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**1:00 PM – 4:15 PM**

**Allied Professionals Forum**
Multidisciplinary Care of the Cardiac Arrhythmia Patient: Part I

**Allied Professionals Forum**
Multidisciplinary Care of the Cardiac Arrhythmia Patient: Part II

Credit values are subject to change. Please visit the Online itinerary Planner or Mobile App for updated credit values.

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**4:15 PM – 5:30 PM**

**Allied Professionals Forum**
Multidisciplinary Care of the Cardiac Arrhythmia Patient: Part I

**Allied Professionals Forum**
Multidisciplinary Care of the Cardiac Arrhythmia Patient: Part II

Credit values are subject to change. Please visit the Online itinerary Planner or Mobile App for updated credit values.

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**PREMIER SESSIONS**

**10:00 AM – 5:30 PM**

**AF Summit**
AF Ablation in 2019: State-of-the-Art – Part I

**AF Summit**
AF Ablation in 2019: State-of-the-Art – Part II

**AF Summit**
Approaches to the Management of AF

**AF Summit**
Highlights from the Journal Editors: Top Publications Impacting AF Management in 2019

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**10:00 AM – 4:45 PM**

**Basic Translational Science Forum**
Omics, Informatics, and Population Science: Big Data Analysis to Study Heart Rhythm - Session 1

**Basic Translational Science Forum**
Omics, Informatics, and Population Science: Big Data Analysis to Study Heart Rhythm - Session 2

**Basic Translational Science Forum**
Omics, Informatics, and Population Science: Big Data Analysis to Study Heart Rhythm - Session 3

**10:00 AM – 1:00 PM**

**Hands-On Educational Session**
With Meet the Authors

**10:00 AM – 1:00 PM**

**S-SPE1**
Basic Translational Science Forum
Omics, Informatics, and Population Science: Big Data Analysis to Study Heart Rhythm - Session 1

**S-SPE2**
Basic Translational Science Forum
Omics, Informatics, and Population Science: Big Data Analysis to Study Heart Rhythm - Session 2

**S-SPE3**
Basic Translational Science Forum
Omics, Informatics, and Population Science: Big Data Analysis to Study Heart Rhythm - Session 3

**1:00 PM – 3:00 PM**

**S-SPE1**
Basic Translational Science Forum
Omics, Informatics, and Population Science: Big Data Analysis to Study Heart Rhythm - Session 1

**S-SPE2**
Basic Translational Science Forum
Omics, Informatics, and Population Science: Big Data Analysis to Study Heart Rhythm - Session 2

**S-SPE3**
Basic Translational Science Forum
Omics, Informatics, and Population Science: Big Data Analysis to Study Heart Rhythm - Session 3

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**1:00 PM – 3:00 PM**

**Mini-Course**
Implantable Loop Recorders, Smart Rhythm Devices, and More

**Mini-Course**
LAA 2019 Part II

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**1:00 PM – 3:00 PM**

**Allied Professionals Forum**
Multidisciplinary Care of the Cardiac Arrhythmia Patient: Part III

Credit values are subject to change. Please visit the Online itinerary Planner or Mobile App for updated credit values.

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**1:00 PM – 3:00 PM**

**Allied Professionals Forum**
Multidisciplinary Care of the Cardiac Arrhythmia Patient: Part II

Credit values are subject to change. Please visit the Online itinerary Planner or Mobile App for updated credit values.

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**1:00 PM – 3:00 PM**

**Allied Professionals Forum**
Multidisciplinary Care of the Cardiac Arrhythmia Patient: Part I

Credit values are subject to change. Please visit the Online itinerary Planner or Mobile App for updated credit values.

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**10:00 AM – 12:00 PM**

**Mini-Course**
Contemporary Review of the Management of Patients With Cardiac Devices: From Implant to Clinic - Part I

**Mini-Course**
Contemporary Review of the Management of Patients With Cardiac Devices: From Implant to Clinic - Part II

Credit values are subject to change. Please visit the Online itinerary Planner or Mobile App for updated credit values.

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**10:00 AM – 12:00 PM**

**Mini-Course**
Contemporary Review of the Management of Patients With Cardiac Devices: From Implant to Clinic - Part III

Credit values are subject to change. Please visit the Online itinerary Planner or Mobile App for updated credit values.

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**10:00 AM – 12:00 PM**

**Mini-Course**
Contemporary Review of the Management of Patients With Cardiac Devices: From Implant to Clinic - Part II

Credit values are subject to change. Please visit the Online itinerary Planner or Mobile App for updated credit values.
WHY JOIN HRS?

Heart Rhythm Society is the only organization that brings together the world’s leading physicians, scientists, and allied health professionals to help end death and suffering from heart rhythm disorders. Membership includes:

- Significant discounts for Scientific Sessions, Board Review Course, and online education
- The latest research from HeartRhythm and Case Reports journals
- Networking and volunteer opportunities
- Updates on clinical documents and guidelines

HRSo nline .org /JOIN
BECOME A MEMBER TODAY

TOGETHER WE ARE HRS

WEDNESDAY, MAY 8 (CONT)

8:00 AM – 9:30 AM
S-AB01 Abstract Plus Allied Professionals and Clinical Research
S-AB02 Abstract Sudden Arrhythmic Death Variants: Mechanisms
S-AB03 Abstract What’s New in Atrial Fibrillation: New Methodologies, New Players, New Therapies
S-AB04 Abstract Recent Developments in Device Extractions
S-AB05 Abstract Pacing After TAVR and Techniques to Improve CRT Outcomes: When and How?
S-AB06 Abstract What’s New With Leadless Pacemakers and Defibrillators
S-AB07 Abstract Strategies and Tools to Improve Lesion Durability and PVI Ablation Outcomes
S-AB08 Abstract Innovations and Best Practices for AF Ablation
S-AB09 Abstract Advanced Mapping, Ablation, and Denervation for Challenging Ventricular Arrhythmias
S-AB10 Abstract Learning More About Left Atrial Appendage Closure
S-AB11 Abstract Exploring the ECG in AF
S-AB12 Abstract Atrial Fibrillation: Lifestyles Matter

3:00 PM – 6:30 PM
S-AB13 Abstract Insights and Innovations in Specific Heart Failure Populations
S-AB14 Abstract Dealing With the Double Whammy: AF in HF
S-AB15 Abstract Risk Stratification and Outcomes in CRT Patients
S-AB16 Abstract Anomalies Following CHD Surgery
S-AB17 Abstract Update on Pediatric Pacemakers and ICDs
S-AB18 Abstract Challenging Patients: Electrophysiology and Ablation
S-AB19 Abstract Cardiac Imaging for Screening, Prognostication, and Treatment of Arrhythmias

9:00 AM – 10:00 AM
S-BP01 Special Session Heart Rhythm Bowl Semifinals
S-BP02 Poster Featured Poster Session

THURSDAY, MAY 9

8:00 AM – 9:30 AM
S-AB13 Abstract Insights and Innovations in Specific Heart Failure Populations
S-AB14 Abstract Dealing With the Double Whammy: AF in HF
S-AB15 Abstract Risk Stratification and Outcomes in CRT Patients
S-AB16 Abstract Anomalies Following CHD Surgery
S-AB17 Abstract Update on Pediatric Pacemakers and ICDs
S-AB18 Abstract Challenging Patients: Electrophysiology and Ablation
S-AB19 Abstract Cardiac Imaging for Screening, Prognostication, and Treatment of Arrhythmias

8:00 AM – 9:30 AM
S-BP01 Special Session Young Investigator Awards Competition
S-BP02 Poster Featured Poster Session

9:00 AM – 4:30 PM
Exhibit Hall Open

9:30 AM – 10:45 AM
S-HPO1 Poster Hyde Park Corner Extraction Rather Than Abandonment Should Be the Standard for Nonfunctional Leads
S-HPO2 Poster 2019 Pediatric Electrophysiology Polypornii

9:30 AM – 10:30 AM
S-HPO2 Poster 2019 Pediatric Electrophysiology Polypornii
FRIDAY, MAY 10

8:00 AM – 9:30 AM
9-AB01
Abstract
CME Credit: 1.5
Room 27
Heart Failure
Afib: Epicenter Lab

catheter ablation of ventricular tachycardia
9-AB21
CME Credit: 1.5
Room 133
Novel Genetic Insights in Rare and Common Arrhythmias
9-AB22
CME Credit: 1.5
Room 120
Harnessing the Power of New Computational Approaches to Transform Arrhythmia Treatment
9-AB23
CME Credit: 1.5
Room 106
Challenging Patients: Pacemakers and ICDs
9-AB24
CME Credit: 1.5
Room 107
AF and HF: Cardiac Implantable Electronic Device-Based Detection and Treatment
9-AB25
CME Credit: 1.5
Room 126
AF and HF: Cardiac Implantable Electronic Device-Based Detection and Treatment
9-AB26
CME Credit: 1.5
Room 120
AF and HF: Cardiac Implantable Electronic Device-Based Detection and Treatment

9:00 AM – 4:30 PM
Exhibit Hall Open
HRSsessions.org/Navigate
TOGETHER WE ARE HRS

9:30 AM – 9:45 AM
9-SP03
CME Credit: 1.5
Room 2
Hyde Park Corner
Wearable Monitors for Everyone: The Revolution in EP Care

Heart Rhythm 2019
SATURDAY, MAY 11

8:00 AM – 9:30 AM
S-100
AP
Mini Board Review
CME Credit: 1.5
Room 4

S-101
BS
Core Curriculum
Physiology and Pathophysiology of the Sinoatrial Node
CME Credit: 1.5
Room 12

S-102
AP
Core Curriculum
Cardiac Devices: Cybersecurity, Electric Cars, and Biological Pacemakers!
CME Credit: 1.5
Room 212

S-103
CA
How To
How to Rapidly and Safely Isolate the Pulmonary Veins
CME Credit: 1.5
Room 203

S-104
AP
Core Curriculum
CME Credit: 1.5
Room 4

S-105
BS
Core Curriculum
Core Curriculum
CME Credit: 1.5
Room 21

S-106
AP
Core Curriculum
Sports in Arrhythmia Patients: Therapeutic or Damaging?
CME Credit: 1.5
Room 21

S-107
BS
Core Curriculum
Posttranslational Regulation of Cardiac Ion Channels in Disease
CME Credit: 1.5
Room 12

S-108
CIED
How-To
How to Place Special CIEDs and LAA Closure Devices
CME Credit: 1.5
Room 211

S-109
Core Curriculum
ICDs in Specific High-Risk Populations: Controversies and Current Evidence
CME Credit: 1.5
Room 205

S-110
AP
Mini Board Review
Preparation for ABIM and EHRA Examinations
CME Credit: 1.5
Room 11

S-111
BS
Core Curriculum
Infiltrative Cardiomyopathies and Acute Myocarditis
CME Credit: 1.5
Room 209

S-112
AP
Mini Board Review
Preparation for Device Questions
CME Credit: 1.5
Room 11

S-LBCT04
Late-Breaking Clinical Trials
Late-Breaking Clinical Trials Session IV: Innovations
CME Credit: 1.5
Room 22

S-SP33
SP
Special Session
Highlights: Part II
CME Credit: 1.5
Room 9

9:30 AM – 12:00 PM
S-113
AP
Poster
Poster Session VI
CME Credit: 0
South Lobby

10:30 AM – 12:00 PM
S-114
AP
Mini Board Review
CME Credit: 1.5
Room 4

S-115
BS
Core Curriculum
Posttranslational Regulation of Cardiac Ion Channels in Disease
CME Credit: 1.5
Room 12
EPICENTER PRESENTATIONS

Thursday, May 9
9:45 AM – 10:45 AM

S-SP01
Moderated ePoster
Oral Anticoagulation and LAA Occluder: Effects, Side-Effects, and Open Questions
CME Credit: 0
EPicenter Lab 2

S-SP02
Moderated ePoster
Annuities in CIEDs Implantation and Management
CME Credit: 0
EPicenter Lab 1

10:45 AM – 11:45 AM

S-EP01
Pioneer Lab 3
Making the EP World a Smaller Place: Building and Utilizing an International Network

12:15 PM – 1:15 PM

S-SP03
Moderated ePoster
Managing Data: Beyond the Device Implantation!
CME Credit: 0
EPicenter Lab 1

S-SP04
New Lessons in SVT
CME Credit: 0
EPicenter Lab 3

S-SP05
Mechanistic Insights Into Heart Failure Therapies
CME Credit: 0
EPicenter Lab 3

1:30 PM – 2:30 PM

S-EP02
Pioneer Lab 2
What You Didn’t Learn in Fellowship Training

3:15 PM – 4:15 PM

S-SP06
Moderated ePoster
Defining Substrate Based Ventricular Arrhythmias: Novel Approaches to Mapping
CME Credit: 0
EPicenter Lab 3

S-SP07
Epidemiology of AF Revisited
CME Credit: 0
EPicenter Lab 3

S-SP08
Moderated ePoster
Enhancing Clinical Outcomes in Device Therapy Patients
CME Credit: 0
EPicenter Lab 3

Friday, May 10
9:45 AM – 10:45 AM

S-SP09
Moderated ePoster
Pediatric EP Outcomes
CME Credit: 0
EPicenter Lab 2

POSTER AREA, EXHIBIT HALL

Wednesday, May 8
5:00 PM – 6:30 PM

S-PO01
Poster
Featured Poster Session
CME Credit: 0
Hall ABC

Thursday, May 9
9:30 AM – 12:00 PM

S-PO02
Poster
Session I
CME Credit: 0
Hall ABC

9:45 AM – 4:30 PM

S-PO03
Poster
Session II
CME Credit: 0
Hall ABC

Friday, May 10
9:30 AM – 12:00 PM

S-PO04
Poster
Session III
CME Credit: 0
Hall ABC

9:45 AM – 4:30 PM

S-PO05
Poster
Session IV
CME Credit: 0
Hall ABC

Saturday, May 11
9:30 AM – 12:00 PM

S-PO06
Poster
Session V
CME Credit: 0
Hall ABC

5:00 PM – 6:30 PM

S-PO07
Poster
Session VI
CME Credit: 0
South Lobby

EPICENTER

THE HOME FOR HRS MEMBERS AT SCIENTIFIC SESSIONS

- Membership and FHS Information
- Educational Resources and Programs
- IBHRE: Excellence in Heart Rhythm Certification
- HRS Partnerships
  - American Heart Association (AHA)
  - Get With The Guidelines®
  - Intersocietal Accreditation Commission (IAC)
  - Cardiac Electrophysiology Accreditation

Visit the EPicenter to pick up your complimentary Scientific Sessions commemorative pin!
Wednesday, May 8
3:30 PM – 4:30 PM
The Fundamentals of Creating an AF Clinic
Sponsored by Medtronic.
5:15 PM – 6:15 PM
Advanced AI for Arrhythmia Detection and Experience With Monitoring Devices Selection
Sponsored by iRhythm Technologies, Inc.

Thursday, May 9
9:30 AM – 10:30 AM
The Care Continuum From Detecting to Treating Paroxysmal Atrial Fibrillation
Sponsored by Medtronic.
12:15 PM – 1:15 PM
Innovations in Pacing: What Are the Latest Therapies Available for My Patients?
Sponsored by Medtronic.
3:15 PM – 4:15 PM
Improving Heart Failure Outcomes Across the Care Continuum
Sponsored by Medtronic.

Friday, May 10
9:30 AM – 10:30 AM
Latest Evidence on Infection Prevention Strategies and WRAP-IT Study Results
Sponsored by Medtronic.
12:15 PM – 1:15 PM
Emerging New Catheter Ablation Technologies
Sponsored by Medtronic.

*Note: The Industry-Expert Presentations are not approved for continuing education credit.
The following programs are not part of the 40th Annual Heart Rhythm Scientific Sessions as planned by the Heart Rhythm Society
Scientific Sessions Program Committee. The events are neither sponsored nor endorsed by the Heart Rhythm Society.

INDUSTRY EDUCATING PROFESSIONALS DAY

Tuesday, May 7
7:00 AM – 4:00 PM
32nd Annual EP Fellows Course: Interpreting the Unknown Electrogram
Supported by Medtronic.
This activity is specific to the needs of Fellows-in-Training.
San Francisco Marriott Marquis | Golden Gate A/B

7:00 AM – 7:00 PM
Mapping and Ablation of Accessory Pathways and AV Nodal Reentrant Tachycardia
Supported by Biosense Webster, Inc.
San Francisco Marriott Marquis | Yerba Buena Salons 1-4

6:30 PM – 9:30 PM
Interventional CRT for Fellows
Supported by Medtronic.
San Francisco Marriott Marquis | Yerba Buena Salons 8-9

Thursday, May 9
6:30 PM – 9:00 PM
Disrupting the Atrial Fibrillation Ablation Paradigm: The Rise of the Balloon Technology
Sponsored by Tony Industries, Inc.
San Francisco Marriott Marquis | Yerba Buena Salons 3-6

Friday, May 10
6:00 AM – 7:30 AM
Insights and Emerging Trends in Energy Delivery
Supported by Medtronic
San Francisco Marriott Marquis | Yerba Buena Salons 8-9

HANDS-ON EDUCATIONAL SESSION

Wednesday, May 8
11:00 AM – 2:00 PM
Moosacore Center, Room 201

Officesphere of companies include:
Abbott
Biosense Webster, Inc.
iRhythm Technologies, Inc.
Invuity, now a part of Stryker
Lundbeck
Medi-Lynx
FELLOWS-IN-TRAINING ROUNDTABLE DISCUSSIONS

Thursday, May 9
3:15 PM – 4:15 PM
Moscone Center, Room 3

The Fellows-in-Training Roundtable offers an ideal opportunity for Fellows to engage with peers and key opinion leaders on topics surrounding career development and practice management. Take advantage of these 10-15 minute conversational sessions. Food and beverage will be provided.

This non-CME activity is sponsored by ZOLL LifeVest.

Key opinion leaders and roundtable topics include:

How to Work With Professional Societies and Industry? Luigi Di Biase, MD, PhD, FHRS
Private vs. Academic
Rafat N. Doshi, MD, FHRS
How to Build a Practice Your First Year as an Attending Physician
Benjamin A. D’Souza, MD, FHRS
Getting Published
Gregory Feld, MD, FHRS
What I Wish I Knew in Fellowship
David Frankel, MD, FHRS
Balancing Work and Life
Rakesh Gopinathannair, MA, MD, FHRS
Job Hunting Strategies
Byron Loe, MD
Ablations, Devices or Lead Extractions: Which One Is the Best EP Track for Me?
Andrea Natale, MD, FHRS
Jump-Starting Your Career
Roderick Tung, MD, FHRS

Fellows can further personalize their experience by selecting from more than 130 sessions tagged Fellows-in-Training, including case-based tutorial, mini board review, and how-to sessions.

Visit the Mobile App or Online Itinerary Planner to view the list of sessions. Look for sessions marked ( ) Fellows-in-Training on pages 10-27 of this program.

HEART RHYTHM BOWL

HEART RHYTHM BOWL

Wednesday, May 8
5:00 PM – 6:00 PM
Moscone Center, Room 3
Heart Rhythm Bowl 2019 Semifinals

Thursday, May 9
12:15 PM – 1:15 PM
Moscone Center, Room 3
Heart Rhythm Bowl 2019 Finals

Electrophysiology Fellows-in-Training from across the globe participate in a friendly, non-CME competition. Come cheer them on in Room 3, directly across from the Exhibit Hall entrance.

This non-CME activity is sponsored by:
Biosense Webster, Inc.
Boston Scientific
Medi-Lynx

Heart Rhythm 2020
San Diego, CA
May 6-9
SHUTTLE SERVICE
Shuttle service is provided between Moscone Center and the hotels listed below. Shuttles run approximately every 10-15 minutes during peak times and 25-30 minutes during nonpeak times.

WEDNESDAY, MAY 8
6:30 AM – 9:30 AM Peak Shuttle begins from hotels in morning.
9:30 AM – 2:30 PM Nonpeak
2:30 PM – 7:00 PM Peak Last shuttle departs Moscone Center at 7:00 PM.

THURSDAY, MAY 9
7:00 AM – 9:30 AM Peak Shuttle begins from hotels in morning.
9:30 AM – 4:00 PM Nonpeak
4:00 PM – 6:30 PM Peak Last shuttle departs Moscone Center at 6:30 PM.

FRIDAY, MAY 10
7:00 AM – 9:30 AM Peak Shuttle begins from hotels in morning.
9:30 AM – 4:00 PM Nonpeak
4:00 PM – 6:30 PM Peak
6:30 PM – 7:30 PM Nonpeak Last shuttle departs Moscone Center at 7:30 PM.

SATURDAY, MAY 11
7:00 AM – 12:30 PM Nonpeak Shuttle begins from hotels in morning.
Last shuttle departs Moscone Center at 12:30 PM.

LEARN WITH US

HEART RHYTHM 2019
RHYTHM THEATER PRESENTATIONS
Located in Rhythm Theater 1 on the Exhibit Hall Floor

WEDNESDAY, MAY 8
3:30-4:30 p.m.
The Fundamentals of Creating an AF Clinic
Sanjaya Gupta, M.D., FACC, FHRS
Andre Gauri, M.D.
Amber Seiler, M.S.N., NP-C, FHRS, CCDS, CEPS

THURSDAY, MAY 9
9:30–10:30 a.m.
The Care Continuum from Detecting to Treating Paroxysmal Atrial Fibrillation
Ilyas K. Colombowala, M.D., FHRS
Arash Aryana, M.S., M.D., FACC, FHRS
12:15–1:15 p.m.
Innovations in Pacemakers: What are the latest therapies available for my patients?
George Crossley, M.D., FHRS, FACC, FAHA
Moeen A. Saleem, M.D.
3:15–4:15 p.m.
Improving Heart Failure Outcomes across the Care Continuum
Steven Zweibel, M.D., FACC, FHRS, CCDS
Thomas Heywood, M.D.
Anne B. Curtis, M.D., FACC, FHRS, MACP, FAHA

FRIDAY, MAY 10
9:30–10:30 a.m.
Latest Evidence on Infection Prevention Strategies and WRAP-IT Study Results
Khaldoun Tarakji, M.D.
12:15–1:15 p.m.
Emerging New Catheter Ablation Technologies
Frank Pelosi, M.D.
Tom McElderry, M.D.
Andrea Natale, M.D.
LISTEN CAREFULLY AND UNLOCK THE BEST-KEPT SECRET IN CARDIAC MONITORING

Stop by the MediLynx booth #1725 and discover the only cardiac monitoring solution with continuous detection, classification and transmission of every heartbeat – and the highest diagnostic yield.