Paul Varosy, MD, FHRS
Denver, CO, USA
Joined in 2006

Jihye Jang, MS
Boston, MA, USA
Joined in 2017

Paul Varosy, MD, FHRS
Denver, CO, USA
Joined in 2006
EXPERIENCE THE REVEAL LINQ™ ADVANTAGE

Reveal LINQ™
Insertable Cardiac Monitoring System with TruRhythm™ Detection

EXCLUSIVE ALGORITHMS DELIVER HIGHEST PUBLISHED AF DETECTION ACCURACY

99.7%
AF Episode Detection Accuracy

Learn more at Medtronic.com/TruRhythm
Ballroom Level 3

Wednesday
• Opening Plenary
• VT/VF Summit (West)
• CIEDS Summit (East)

Friday
• Awards & Recognition Ceremony (West)
• Presidents’ Reception (Grand Ballroom Foyer)

KEY
- Session Rooms
- Exhibits & Posters
- Lounges & Services
- Escalator
- Elevators
- Restrooms

Level 3 Session Rooms
- Grand Ballroom East
- Grand Ballroom West
Stop by the Medtronic booth for information on the benefits and risks of our products.

References

Brief Statement
Reveal LINQ™ Insertable Cardiac Monitor and Reveal LINQ™ Mobile Manager System

Indications: The Reveal LINQ insertable cardiac monitor (ICM) is an implantable patient-activated and automatically-activated monitoring system that records subcutaneous ECG and is indicated in the following cases:
- Patients with clinical syndromes or situations at increased risk of cardiac arrhythmias
- Patients who experience transient symptoms such as dizziness, palpitation, syncope, and chest pain, that may suggest a cardiac arrhythmia

The device has not been tested specifically for pediatric use.

Reveal LINQ Mobile Manager System
The Reveal LINQ Mobile Manager app is intended for programming and interrogating the Reveal LINQ ICM. The Medtronic 24965 patient connector is a portable electronic device using low frequency inductive telemetry to communicate with the Reveal LINQ ICM. The patient connector uses Bluetooth® technology to transmit implantable heart device data to the Reveal LINQ Mobile Manager app for further processing. The patient connector is intended to be used by healthcare personnel only in a clinical or hospital environment.

Contraindications: There are no known contraindications for the implant of the Reveal LINQ ICM or for the Reveal LINQ Mobile Manager system. However, the patient’s particular medical condition may dictate whether or not a subcutaneous, chronically implanted device can be tolerated.

Warnings/Precautions
Reveal LINQ Insertable Cardiac Monitor
Patients with the Reveal LINQ ICM should avoid sources of diathermy, high sources of radiation, electrosurgical cautery, external defibrillation, lithotripsy, therapeutic ultrasound, and radiofrequency ablation to avoid electrical reset of the device, and/or inappropriate sensing as described in the Medical procedure and EMI precautions manual. MRI scans should be performed only in a specified MR environment under specified conditions as described in the Reveal LINQ MRI Technical Manual.

Reveal LINQ Mobile Manager System
Before inserting the Reveal LINQ ICM, verify that the patient connector and mobile device are fully charged. The patient connector and mobile device may run out of power during the insertion procedure if they are not fully charged. You will not be able to program or interrogate the patient’s Reveal LINQ ICM until the patient connector and the mobile device have power.

Only use the patient connector to communicate with the intended implanted device. Do not use the patient connector to communicate with other implanted devices. Using the patient connector to communicate with other implanted devices can interfere with those devices, potentially affecting the other implanted device’s functionality or therapy delivery.

Use of wireless devices — The patient connector incorporates radiofrequency (RF) communications components which may affect other devices and equipment in the medical environment. The use of wireless devices in the medical environment must be evaluated and authorized by the responsible organization. RF interference may affect device performance. Electromagnetic Compliance (EMC) testing shows that the patient connector provides reasonable protection against harmful interference and provides EMC immunity in a typical medical installation. The use of wireless devices in the medical environment must be evaluated and authorized by the responsible organization. However, there is no guarantee that interference will not occur in a particular installation. If the patient connector does cause harmful interference to other devices or is negatively impacted by other devices, correct the interference by one or more of the following measures: reorient or relocate the patient connector and other devices; increase the separation between the patient connector and other devices by at least two meters (approximately 6 feet); and/or turn off any interfering equipment.

Radiofrequency (RF) interference — Portable and mobile RF communications equipment can interfere with the operation of the patient connector. There is no guarantee that it will not receive interference or that any particular transmission from this system will be free from interference. To avoid interference, do not use the patient connector and mobile device within 2 m (6 feet) of other wireless communications equipment. Using the patient connector near these devices could interfere with communication between the Reveal LINQ ICM and the patient connector.

Security — Maintain adequate physical security of the patient connector to prevent unauthorized use that could lead to harm to patients. Bluetooth communication in the patient connector is encrypted for security. Medtronic inductive telemetry uses short-range communication to protect patient information. If the patient connector should fail, there is no risk of patient harm.

Environmental precautions — To ensure safe and effective operation, use the device with care to avoid damage to the patient connector from environmental factors that may impair its function. Care is exercised in design and manufacturing to minimize damage to devices under normal use. However, electronic devices are susceptible to many environmental stresses. Specifically, the patient connector may be affected by electrostatic discharge (ESD). In an environment likely to cause ESD, such as a carpeted floor, discharge any charge collected on your body before touching the device.

Potential Complications: Potential complications of the Reveal LINQ device include, but are not limited to, device rejection phenomena (including local tissue reaction), device migration, infection, and erosion through the skin.

See the device manuals for detailed information regarding the implant procedure, indications, contraindications, warnings, precautions, and potential complications/adverse events. For further information, please call Medtronic at 1-800-328-2518 and/or consult the Medtronic website at medtronic.com.

Caution: Federal law (USA) restricts these devices to sale by or on the order of a physician.

Medtronic and the Medtronic logo are trademarks of Medtronic.

“Third party brands are trademarks of their respective owners. All other brands are trademarks of a Medtronic company.
ACKNOWLEDGEMENT OF SUPPORT
Appreciation is expressed to the following companies for educational grants in support of the Scientific Sessions:

EDUCATION SESSION SUPPORT
The core curricula, case-based tutorial, debate, and how-to sessions in the Catheter Ablation specialty track and Clinical Electrophysiology specialty track are supported by an unrestricted educational grant provided by Biosense Webster, Inc.

The how-to sessions in the Cardiovascular Implantable Electronic Devices specialty track and the Heart Failure specialty track are supported by an unrestricted educational grant provided by Abbott.

The mini-board review sessions are supported by an unrestricted educational grant provided by Biosense Webster, Inc.

The mini-course session Anticoagulation for AF in 2018: Current Status and Unresolved Issues is supported by an unrestricted educational grant provided by Bristol-Myers Squibb and Pfizer Alliance.

Sessions focused on mapping, CRT, and SICD are supported by unrestricted educational grants provided by Boston Scientific.

SUMMIT SUPPORT

AF SUMMIT
Supported by unrestricted educational grants provided by Abbott, Biosense Webster, Inc., and Boston Scientific.

CARDIOVASCULAR IMPLANTABLE ELECTRONIC DEVICE MANAGEMENT SUMMIT
Supported by unrestricted educational grants provided by Abbott, Biosense Webster, Inc., Boston Scientific, and Spectranetics.

VT/VF SUMMIT
Supported by unrestricted educational grants provided by Abbott, Biosense Webster, Inc., and Boston Scientific.

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This online course includes 18 information-packed modules based on IBHRE’s Certified Cardiac Device Specialist (CCDS) Exam Blueprint.*

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info@ibhre.org

*Completing this online course does not guarantee successful completion of the CCDS exam. The course does not cover all topics included in the CCDS Exam Blueprint.
# SHUTTLE SERVICE TO THE BOSTON CONVENTION & EXHIBITION CENTER

Shuttle service is provided between the hotels listed below and the Boston Convention & Exhibition Center (BCEC). Shuttle information signs will be posted in the lobby of each shuttle hotel. If you have questions about the shuttle or if you need to make a reservation for a wheelchair-accessible vehicle, please see the supervisor at the BCEC or call our official shuttle provider, Kushner & Associates at +1-310-562-0606 during shuttle hours.

Shuttles should arrive every 10-15 minutes during Peak times and every 25-30 minutes during Non-Peak times.

## WEDNESDAY, MAY 9

<table>
<thead>
<tr>
<th>Time</th>
<th>Type</th>
<th>Location</th>
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<tr>
<td>6:30 – 9:30 a.m.</td>
<td>Peak</td>
<td>Shuttles begin from hotels in morning</td>
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<td>9:30 a.m. – 2:30 p.m.</td>
<td>Non-Peak</td>
<td>Last shuttle departs BCEC at 7 p.m.</td>
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<tr>
<td>2:30 – 7 p.m.</td>
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## THURSDAY, MAY 10

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<td>Last shuttle departs BCEC at 7 p.m.</td>
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<tr>
<td>4 – 6:30 p.m.</td>
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## FRIDAY, MAY 11

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</tr>
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<td>4 – 6:30 p.m.</td>
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## SATURDAY, MAY 12

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<td>Non-Peak</td>
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## HOTELS LISTED IN ORDER OF PICKUP

### Route #1
- InterContinental Boston
- Omni Parker House
- Hyatt Regency Boston

### Boarding Location
- Atlantic Avenue
- Tremont St., across from hotel in front of Citizens Bank
- Across from hotel, on Chauncy St.

### Route #2
- Envoy Hotel
- Boston Marriott Long Wharf
- Hilton Boston Downtown/
  Faneuil Hall

### Boarding Location
- Curbside on Sleeper St.
- Front entrance
- Curbside on Broad St.

### Route #3
- Boston Park Plaza
- Taj Boston
- Revere Hotel Boston Common
- Courtyard by Marriott Boston Downtown
- DoubleTree by Hilton Boston Downtown
- W Boston Downtown

### Boarding Location
- Curbside on Columbus Ave.
- At Boston Park Plaza
- Curbside on Stuart St.
- Curbside on Tremont St.
- At Courtyard by Marriott
- At Courtyard by Marriott

### Route #4
- Boston Marriott Copley Place
- Colonnade Hotel
- Fairmont Copley
- Westin Copley Place Boston

### Boarding Location
- Front Entrance
- At Boston Marriott Copley Place
- At Boston Marriott Copley Place
- At Boston Marriott Copley Place

### Route #5
- Sheraton Boston Hotel
- Hilton Boston Back Bay

### Boarding Location
- Curbside on Dalton St.
- At Sheraton Boston Hotel

### Hotels within walking distance to the Boston Convention & Exhibition Center:
- Aloft Boston Seaport
- Element Seaport Boston
- Renaissance Boston Waterfront
- Seaport Hotel
- Westin Boston Waterfront

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Shuttle Videos provided by:

- Medtronic
- ScottCare®
- :implicity

Heart Rhythm 2018
By attending the 2018 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
- 21 American Board of Pediatrics (ABP) Maintenance of Certification points
- 40.5 American Society of Radiologic Technologists (ASRT)/American Registry of Radiologic Technologists (ARRT) Category A+ CE credits
- An application for approval of credit has been made to the National Society of Genetic Counselors

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 Credit(s)™ 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 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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 21 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.

ASRT CREDIT STATEMENT
Approved by the ASRT for Category A+ continuing education credit.

NSGC CEUs
This event is pending approval by the National Society of Genetic Counselors (NSGC) for Category 1 CEUs. The American Board of Genetic Counseling (ABGC) accepts CEUs approved by NSGC for purposes of recertification.
CLAIM YOUR CREDIT AND PARTICIPATION CERTIFICATES

Attendees can access their Heart Rhythm 2018 certificates beginning Thursday, May 10, 2018. Please follow these quick and easy steps:

1. Log in from the “Online Itinerary Planner” link at www.HRSonline.org/Navigate with your Badge ID and your Last Name. Your badge number is printed on your badge.
2. Go to “My Credit Cart.” Some sessions will be pre-populated using Beacon data. After importing sessions from “My Itinerary” or the Mobile App, review for accuracy. Add missing sessions (find sessions by searching for sessions from the Home screen) or remove any sessions you did not attend.
3. Complete the required Overall Meeting Evaluation and the optional session evaluations.
4. Generate and print/email your certificate.
5. To claim MOC points, complete the ABIM or ABP assessment.

You will receive notification of points submitted by HRS no later than June 29, 2018.

For onsite assistance, go to the CME Counters in Registration, North Lobby beginning Wednesday, May 9 at 4 p.m. After the meeting, email us at scientific.sessions@HRSonline.org.

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

DISCLOSURES

HRS is committed to the provision of Continuing Medical Education (CME) that is balanced, objective, and evidence based. The Heart Rhythm Society 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 a special exception from the HRS Chief Learning Officer that is granted only in specific circumstances that meet stringent ACCME requirements.

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 hrsonline.org/COI or submit an email message to scientific.sessions@HRSonline.org.

AMERICANS WITH DISABILITIES ACT

The Heart Rhythm Society supports the Americans with Disabilities Act (ADA). Should you require specific aids or other services to accommodate your participation at the Heart Rhythm Scientific Sessions, please notify Heart Rhythm Society staff to determine what special arrangements may be made.
LEARNING OBJECTIVES

PROGRAM OVERVIEW

The sessions described in this program are organized by the Heart Rhythm Society Scientific Sessions Program Committee by world-renowned faculty who have been invited to speak at the 39th Annual Scientific Sessions.

Upon 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 pharmacological and non-pharmacological therapies 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 inter-professional teams, care coordination, patient engagement, and enhanced communication to optimize patient-and family-centered care.

6. Assess the impact of health care reform on the care delivered to patients with heart rhythm disorders.

Heart Rhythm Society is the only organization that brings together the world’s leading clinicians, 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

Samuel J. Asirvatham, MD, FHRS
Rochester, MN, USA
Joined in 2002

BECOME A MEMBER TODAY
HRSonline.org/Join
### SESSION TYPES

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBT</td>
<td><strong>Case-Based Tutorials</strong> Teaching groups encouraging audience discussion with faculty, select cases will utilize an Audience Response System (ARS).</td>
</tr>
<tr>
<td>CT</td>
<td><strong>Complication Theater</strong> These 90-minute sessions are case-based learning sessions featuring complicated cases and the resulting learning opportunities.</td>
</tr>
<tr>
<td>CC</td>
<td><strong>Core Curricula</strong> Didactic sessions in all major categories that provide comprehensive, timely information relevant to the care of patients or to research.</td>
</tr>
<tr>
<td>DB</td>
<td><strong>Debates</strong> Spirited debate sessions on controversial issues.</td>
</tr>
<tr>
<td>SY</td>
<td><strong>Featured Symposia</strong> Cross discipline showcase sessions with subject matter experts.</td>
</tr>
<tr>
<td>HP</td>
<td><strong>Hyde Park Corner</strong> A freestanding, slideless session where an appointed speaker introduces new or controversial ideas or techniques.</td>
</tr>
<tr>
<td>HT</td>
<td><strong>How-To</strong> Didactic sessions that teach how high-level clinical procedures are performed.</td>
</tr>
<tr>
<td>MBR</td>
<td><strong>Mini Board Review</strong> Held on Saturday morning, these didactic sessions will review complex questions from the board exam or IBHRE exam.</td>
</tr>
<tr>
<td>MC</td>
<td><strong>Mini-Courses</strong> Didactic courses providing in-depth updates on hot, new topics followed by a question and answer period.</td>
</tr>
<tr>
<td>ME</td>
<td><strong>Meet-the-Experts</strong> These 60 minute “brown bag” lunchtime sessions provide a scholarly exchange of information between experts and interested clinicians.</td>
</tr>
<tr>
<td>PU</td>
<td><strong>Pioneers Unplugged</strong> Pioneers in the field of EP highlighting the history, technical changes, and evolution of modern practice and patient care. Held in the EPicenter located in the Exhibit Hall.</td>
</tr>
<tr>
<td>RF</td>
<td><strong>Rapid Fire Cases</strong> These 90-minute case-based learning sessions feature 4-6 case presentations followed by an expert panel discussion and Q&amp;A.</td>
</tr>
<tr>
<td>TE</td>
<td><strong>Translational Electrophysiology Sessions</strong> 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.</td>
</tr>
<tr>
<td>AB/PO/MP</td>
<td><strong>Oral/Poster/Moderated Poster Abstracts</strong> Presentations in oral and poster format that provide the most up-to-date scientific research.</td>
</tr>
<tr>
<td>SP</td>
<td><strong>Special Sessions</strong> Examples include: Opening Plenary Session; Allied Professionals Orientation and networking lunchtime session, Women in EP Networking Luncheon, Young Investigator Awards Competition, Awards Recognition Ceremony and Presidents’ Reception.</td>
</tr>
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### SPECIALTY TRACKS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Specialty</th>
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<tbody>
<tr>
<td>AP</td>
<td><strong>Allied Professionals</strong></td>
</tr>
<tr>
<td>BS</td>
<td><strong>Basic/Translational Science</strong></td>
</tr>
<tr>
<td>CIED</td>
<td><strong>Cardiovascular Implantable Electronic Devices</strong></td>
</tr>
<tr>
<td>CA</td>
<td><strong>Catheter Ablation</strong></td>
</tr>
<tr>
<td>CEP</td>
<td><strong>Clinical Electrophysiology</strong></td>
</tr>
<tr>
<td>HF</td>
<td><strong>Heart Failure</strong></td>
</tr>
<tr>
<td>Peds</td>
<td><strong>Pediatric and Adult Congenital Heart Disease</strong></td>
</tr>
<tr>
<td>PPP</td>
<td><strong>Policy, Payment, and Practice</strong></td>
</tr>
<tr>
<td>SP</td>
<td><strong>Special Session</strong></td>
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</table>

### SESSION TAGS

- **Premier Session**
- **Fellows-in-Trainning**
- **Practice Management**
- **Quality Improvement**
## WEDNESDAY, MAY 9

### 7 – 7:45 a.m.

**B-SP01**  
**SP**  
Special Session  
First Time Attendee Orientation  
*Limited Seating*

### 8 – 9 a.m.

**B-SP02**  
**SP**  
Special Session  
Opening Plenary with Sherry Turkle, Abby Rockefeller Mauzé  
Professor of the Social Studies of Science and Technology in the  
Program in Science, Technology and Society at MIT.

### 10 a.m. – Noon

**B-MC01**  
**CA**  
Mini-Course  
VT Ablation: Defining the Substrate  
*Room 156*

**B-MC02**  
**CEP**  
Mini-Course  
Anticoagulation for AF in 2018: Current Status and Unresolved Issues  
*Room 157*

**B-MC03**  
**HF**  
Mini-Course  
Heart Failure: What’s Everyone Talking About?  
*Room 160*

**B-MC04**  
**Peds**  
Mini-Course  
Sudden Death in the Young: Over the Horizon  
*Room 153*

**B-SP09**  
**SP**  
Special Session  
Crash Course in Syncope for Arrhythmia Experts  
*Room 252*

### 10 a.m. – 4 p.m.

**B-AP01.1-3**  
**AP**  
Allied Professionals Forum  
Cardiac Rhythm Device Patient and Clinic Management, Parts I-III  
*Room 204*

**B-AP02.1-3**  
**AP**  
Allied Professionals Forum  
State-of-the-Art Review of Mapping and Ablation of Cardiac Arrhythmias, Parts I-III  
*Room 210C*

**B-AP03.1-3**  
**AP**  
Allied Professionals Forum  
Multidisciplinary Care of the Arrhythmia Patient for the Advanced Practice Provider, Parts I-III  
*Room 205B*

### 10 a.m. – 4:30 p.m.

**B-BS01-03**  
**BS**  
Basic/Translational Science Forum  
From Gene to Channel: Biogenesis of the Ion Channel Network and Arrhythmogenesis  
*Room 107*

### 10 a.m. – 5 p.m.

**B-AF01-03**  
**SP**  
AF Summit  
AF Summit ★  
*West Ballroom*

### 10 a.m. – 5 p.m.

**B-VT01-03**  
**SP**  
VT/VF Summit  
VT/VF Summit ★  
*East Ballroom*

### 11 a.m. – 2 p.m.

**B-SP03**  
**SP**  
Special Session  
Hands-On Educational Session  
*Room 210A*

### Noon – 1 p.m.

**B-SP04**  
**SP**  
Special Session  
Society Leadership Lunch Forum  
*Limited Seating*

### 1 – 3 p.m.

**B-MC05**  
**CIED**  
Mini-Course  
Cardiac Monitors in Heart Rhythm Disorders — ILR, Smart Phones, Smart Watches and More...  
*Room 252*

**B-MC06**  
**CA**  
Mini-Course  
Extra-cardiac Targets to Improve AF Outcomes  
*Room 156*

**B-MC07**  
**CEP**  
Mini-Course  
Sudden Cardiac Death Prevention — State of the Art  
*Room 157*

**B-MC08**  
**HF**  
Mini-Course  
Arrhythmia and Pacing Induced Cardiomyopathy: A 2018 Update  
*Room 160*

*Program is subject to change, check the Mobile App for the most current listing

Summit attendance limited to Premier Registrants or Wednesday Summit-Only Registrants
The Future is Now: What Electrophysiologists Should Know About Emerging Technology and Cutting Edge Research

3 – 6:30 p.m.
Exhibit Hall Open

5 – 6 p.m.
EP01 EPicenter
Heart Rhythm Bowl: Semi-Finals

5 – 6:30 p.m.
B-PO01 Poster
Featured Poster Session & Reception

TOGETHER WE MAKE BREAKTHROUGHS

The Heart Rhythm Society’s Infinity Circle acknowledges year-round supporters for their significant contributions. Infinity Circle members help fund a wide range of Heart Rhythm Society initiatives and programs, which ultimately lead to improved patient diagnosis, treatment, and care. The Heart Rhythm Society gratefully acknowledges the companies in the 2017 Infinity Circle.

Thank you!
## THURSDAY, MAY 10

### 8 – 9:30 a.m.

<table>
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<td>AM</td>
<td>Allied Professional Abstracts — Teaching Case Reports</td>
</tr>
<tr>
<td>B-AB02</td>
<td>BS</td>
<td>New Concepts for Treating and Modeling Atrial and Ventricular Arrhythmia</td>
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<td>B-AB03</td>
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<td>New Insights Into AF Pathogenesis</td>
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<td>B-AB04</td>
<td>CIED</td>
<td>Cardiovascular Implantable Electronic Devices: Novel Implantation Approaches and Techniques</td>
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<td>Contemporary Outcomes With Device Therapy and Lead Extraction</td>
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<td>His Bundle Pacing: When to Use it, How to Do it, Does it Work?</td>
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<td>Risk Stratification and Patient Selection for Device Therapy in Cardiomyopathy</td>
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<td>The Pulmonary Veins and Beyond as Targets in Catheter Ablation of AF</td>
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<td>Esophageal Injury and Protection During Catheter Ablation of AF</td>
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<td>VT Ablation: Novel Approaches and Indications</td>
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### 8 – 10 a.m.

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<td>B-SP06</td>
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**CME Credit:** 1.5

**Room:**
- 210A
- 160
- 258A
- 252
- 253
- 254
- 151
- 153
- 256
- 257
- 107
- 205A
- 162
- 109
- 206
- 210B
- 210C
- 205B
- 204
- 206
- Ballroom East, BCEC
- Ballroom West, BCEC
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<td>The Totally Subcutaneous ICD is Not Just a “Niche” Device</td>
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<td>Atrial Fibrillation Ablation Should Be First Line Therapy for Young Patients Without Structural Heart Disease</td>
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<td>Non-ischemic Cardiomyopathy Patients Benefit from Primary Prevention ICD</td>
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<td>Anticoagulation Can Safely Be Discontinued After Successful Ablation of AF</td>
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<td>EP Jeopardy: Devices, Antiarrhythmic Drug Use, Intracardiac Electrograms, and Clinical Decision Making</td>
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<td>Pathophysiology and Treatment of Atrial Arrhythmias in 2018</td>
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<td>Special Considerations in Pediatric and Adult Congenital Electrophysiology</td>
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<td>Translational Electrophysiology</td>
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<td>Arrhythmogenic Cardiomyopathy (AC): Nature vs. Nurture</td>
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<td>B-005</td>
<td>Pacemaker and Defibrillator-Related Infection: Making Sure it Does Not Happen to Your Patient!</td>
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<td>How I Manage My Most Difficult Primary Electrical Disease Cases</td>
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<td>Efficient Diagnostic Maneuvers for Wide and Narrow Complex Tachycardias</td>
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<td>Management of Arrhythmias and Heart Failure in Populations Underrepresented in Clinical Trials</td>
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<td>Atrial Fibrillation Around the World</td>
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10:40 – Noon

B-SP07 Special Session
CME Credit: 1.5
Room 258A
CES Program Part I — The Cardiac Conduction System

10:45 – 11:45 a.m.

B-139 Joint Session
CME Credit: 0
Room 153
Improving Patient Safety: Clinicians, FDA, and AAMI/Industry Working Together

B-017 Debate
CME Credit: 0.75
Room 257
This House Believes That Asymptomatic Paroxysmal Atrial Fibrillation Should Be Treated by Catheter Ablation

B-018 Debate
CME Credit: 0.75
Room 210B
Mapping AF Mechanisms Is Required for Successful Ablation of Persistent AF

 Noon – 2 p.m.

B-SP13 Special Session
CME Credit: 0
Room 258B
Cardiac Electrophysiology Society Luncheon and Poster Session Limited to CES Members

12:15 – 1:15 p.m.

B-019 Meet-the-Experts
CME Credit: 1
Room 160
How to Do Super-Resolution Imaging of Cardiac Ion Channels and Membrane Transporters

 Noon – 2 p.m.

B-SP13 Special Session
CME Credit: 0
Room 258B
Cardiac Electrophysiology Society Luncheon and Poster Session Limited to CES Members

12:15 – 1:15 p.m.

B-019 Meet-the-Experts
CME Credit: 1
Room 160
How to Do Super-Resolution Imaging of Cardiac Ion Channels and Membrane Transporters
Persistent Atrial Fibrillation: What Are the Targets for Ablation Beyond the PV Sleeves?

Deciphering Complex SVT

How to Improve the Overall Success Rate of Paroxysmal AF Ablation Result

Effective Management of Cardiovascular Autonomic Disorders

Accessory Pathways: Atypical in Location or Physiology

A Day in Device Clinic: Practical Considerations in CRT Management

Optimizing the CRT Patient: Science and Strategies

A Double Hit Hurts More

Early Postoperative Arrhythmias: When Should Worry Be Replaced by Action?

Neural Control of the Heart—Bedside to the Bench

Arrhythmias and Heart Failure: The Role of a Multi-Disciplinary Approach

Pioneers Unplugged

Cardiac Genetic Testing: Maximizing Value and Minimizing Harms

FDA Hot Topic 1: ICD Risk Stratification and Coverage

Meet the Trialists: The Latest in Atrial Fibrillation Ablation

How I Manage Athletes With Arrhythmias: Case Studies That Illustrate Critical Management Issues

How I Manage Athletes With Arrhythmias: Case Studies That Illustrate Critical Management Issues

FDA Hot Topic 2: Heart Failure Devices and Clinical Trial Design: Are We Asking the Right Questions?

Patients With Nonischemic Cardiomyopathy Should Still Undergo Primary Prevention ICD Implantation if LVEF Is Less Than or Equal to 35%

Novel Therapies for Heart Failure

Fellows-In-Training Round Table

Device-Based Cases

The Evolving Roles of Advanced Practice Clinicians in the Care of EP Patients
B-041  Translational Electrophysiology  CME Credit: 1.5
BS
Room 258A
Custom-Tailoring Ablation Procedures Based on Cardiac Imaging

B-042  Joint Session  CME Credit: 1.5
BS
Room 253
Post-operative Atrial Fibrillation: New Insights Into Mechanisms and Management

B-043  Core Curriculum  CME Credit: 1.5
CIED
Room 210C
Subcutaneous ICD from A to Z

B-044  Complication Theatre  CME Credit: 1.5
CIED
Room 252
This Is a Bad Extraction Day

B-045  Case Based Tutorial  CME Credit: 1.5
CA
Room 153
LAA Arrhythmogenesis and Electrical Isolation

B-046  Core Curriculum  CME Credit: 1.5
CA
Room 151
Strategies for Addressing Arrhythmias Arising From the Left Ventricular Summit

B-047  Core Curriculum  CME Credit: 1.5
CEP
Room 157
Can We Prevent Atrial Fibrillation?

B-048  How-To  CME Credit: 1.5
CEP
Room 156
How to Manage Cardiac Sarcoidosis

B-049  Joint Session  CME Credit: 1.5
CEP
Room 205A
Syncope & Autonomic Disorders for the Cardiac Electrophysiologist

B-050  Joint Session  CME Credit: 1.5
CEP
Room 162
Localization Insights From the Electrocardiogram

B-051  Joint Session  CME Credit: 1.5
CEP
Room 107
Management of SADS Conditions: What’s New & What’s Coming?

B-052  Case Based Tutorial  CME Credit: 1.5
HF
Room 257
Too Fast or Too Slow? The Importance of Heart Rate in Heart Failure Patients

B-053  Complication Theatre  CME Credit: 1.5
HF
Room 254
OMG! What Do I Do Now?

B-054  Core Curriculum  CME Credit: 1.5
PEDS
Room 204
The Marriage of ACHD and Electrophysiology: A Lifetime Together

B-055  Core Curriculum  CME Credit: 1.5
PEDS
Room 205B
Biochem 101: A Must for Your Major

B-056  Featured Symposia  CME Credit: 1.5
SP
Ballroom East, BCEC
Innovations in Cardiac Implantable Electronic Devices

B-057  Joint Session  CME Credit: 1.5
SP
Room 259
Mapping and Ablation of Ventricular Arrhythmia in NICM: Special Considerations

B-058  Special Session  CME Credit: 1.5
SP
Room 160
China Cases of Excellence

B-059  Special Session  CME Credit: 1.5
SP
Room 109
Want to Have a Flourishing Early Career EP Practice? You Need to Know These Top 5’s

B-060  Special Session  CME Credit: 1.5
PPP
Room 206
Global Humanitarian Session: Logistical, Practical, and Regulatory Considerations
Visit the EPicenter at Booth 538
An area dedicated to interactive learning, discovery, and networking.

Heart Rhythm Society
Membership & FHIRS Information
Educational Resources & Programs
HRS Partnerships
IBHRE

Networking
Presentations
Pioneers Unplugged
Heart Rhythm Bowl

Wednesday | 3 — 6:30 p.m.
Thursday | 9 a.m. — 4:30 p.m.
Friday | 9 a.m. — 4:30 p.m.
FRIDAY, MAY 11

8 – 9:30 a.m.

B-AB22  
AP  
Abstract Plus  
Allied Professional Abstracts — Clinical Research

B-AB23  
BS  
Abstract Plus  
Applied Omics to Study Heart Rhythm

B-AB24  
BS  
Abstract  
Personalized and Biophysically-Detailed Simulations of Human Cardiac Electrophysiology

B-AB25  
CIED  
Abstract  
Novel Devices and Techniques: Implants, Extractions and Expanding the Utilization

B-AB26  
CIED  
Abstract Plus  
CIED Monitoring and Diagnostic Nuances

B-AB27  
CIED  
Abstract Plus  
What Have We Learned From the Real World Data on Subcutaneous ICDs?

B-AB28  
CIED  
Abstract Plus  
Atrial Fibrillation Screening Using Smartphone Apps or Implantable Monitors

B-AB29  
CA  
Abstract  
Novel Techniques to Improve Outcomes in AF Ablation

B-AB30  
CA  
Abstract Plus  
Innovative Strategies for Mapping and Ablation of Challenging Ventricular Substrate

B-AB31  
CA  
Abstract Plus  
Mapping Non-pulmonary Vein Sources of Atrial Fibrillation

B-AB32  
CA  
Abstract  
Atrial Tachycardia After AF Ablation — Predictors, Approach and Implications

B-AB33  
CEP  
Abstract Plus  
Clinical EP—All Things POTS and Syncope

B-AB34  
CEP  
Abstract  
How to Apply Anticoagulation Trial Data to Your Clinic Patient

B-AB35  
CEP  
Abstract Plus  
Novel Noninvasive Technology for Arrhythmia Detection and Sudden Death Risk Stratification

B-AB36  
CEP  
Abstract  
Device Closure of Left Atrial Appendage: Techniques, Outcomes and Complications

B-AB37  
HF  
Abstract  
Advances in the Delivery of Resynchronization Therapy to Improve Outcomes in the Failing Heart

B-AB38  
HF  
Abstract  
The Intersection Between Atrial Fibrillation, Cardiomyopathy and Heart Failure

B-AB39  
HF  
Abstract Plus  
Arrhythmia and Pacing Induced Heart Failure: Mechanistic Insights and Prognosis

B-AB40  
HF  
Abstract  
Predicting CRT Outcomes: Unresolved Questions

B-AB41  
PEDS  
Abstract  
The Complex Atrium in Pediatric and Congenital Heart Disease: Grandma’s Atrial Fibrillation Is Boring

B-AB42  
SP  
Abstract Plus  
Ablation for Ventricular Arrhythmias: Navigating Uncharted Territory

B-LBCT02  
SP  
Late-Breaking Clinical Trials  
Late-Breaking Updates From Clinical Trials and Registries

8 – 10 a.m.

B-SP22  
SP  
Special Session  
Heart Rhythm Society’s Research Fellowship Awards Breakfast
<table>
<thead>
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<th>Event</th>
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<tr>
<td>9 a.m. – 4:30 p.m.</td>
<td>Exhibit Hall Open</td>
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</table>
| 9:30 – 9:45 a.m.    | B-HP04  
Hyde Park Corner  
All Patients With Subclinical AF of Less Than 24 Hours Duration Should Be Enrolled in a Clinical Trial |
| 9:30 – 10:30 a.m.    | B-MP03  
CA  
Moderated Posted  
Exploring the Ventricular Substrate |
| 9:30 a.m.– Noon     | B-PO04  
CA  
Poster  
Poster Session IV |
| 9:45 – 10 a.m.       | B-HP05  
CA  
Hyde Park Corner  
Registries Are Essential in Monitoring Real-Life Outcomes of Invasive Procedures |
| 10 – 11 a.m.        | B-SP48  
CA  
Special Session  
Coffee With the HeartRhythm Journal Editors |
| 10:30 – 11:15 a.m.  | B-CEP  
HF  
Debate  
Vigorous Exercise Is Unsafe for Patients With ARVC |
|                      | B-071  
PEDS  
Debate  
SUBQ ICD — Great Technology That Is Here to Stay |
|                      | B-SP25  
PPP  
Special Session  
FDA Hot Topic 3: AF Detection |
| 10:30 a.m. – noon   | B-058  
AP  
Core Curriculum  
Pathophysiology and Treatment of Ventricular Arrhythmias in 2018 |
|                      | B-059  
AP  
Core Curriculum  
Everything CRT: Evidence Based Information for Informed Decisions |
|                      | B-SP23  
SP  
Special Session  
The Road Less Traveled: Non-traditional Career Paths in EP |
**10:45 – 11:45 a.m.**

- **B-SP24**
  - Special Session
  - Global Humanitarian: Stories & Experiences From the Field
  - CME Credit: 1.5
  - Room 206

- **B-SP26**
  - Special Session
  - Live Case Presentations: Brigham and Women’s Hospital
  - CME Credit: 1.5
  - Ballroom West, BCEC

**11:30 a.m. – 12:15 p.m.**

- **B-075**
  - HF Debate
  - Managing Ventricular Arrhythmias in Advanced Heart Failure: Ablation Not Transplant Is the Better Choice
  - CME Credit: 0.75
  - Room 156

- **B-076**
  - PEDS Debate
  - Clinical SVT: No Jump. No Echo. No Question. Ablation!
  - CME Credit: 0.75
  - Room 205B

- **B-SP27**
  - Special Session
  - FDA Hot Topic 4: Digital Health and Mobile Medical Applications
  - CME Credit: 0
  - Room 205A

**12:15 – 1:15 p.m.**

- **B-077**
  - BS Meet-the-Experts
  - Stem Cell Models of Cardiac Arrhythmias
  - CME Credit: 1
  - Room 157

- **B-078**
  - CA Meet-the-Experts
  - AF Ablation Consensus Unlocked
  - CME Credit: 1
  - Room 151

- **B-079**
  - HF Meet-the-Experts
  - Heart Failure and Devices: A Peek Into the Future
  - CME Credit: 1
  - Room 254

- **B-SP28**
  - AP Special Session
  - Psychological Care in the EP World
  - CME Credit: 1
  - Room 107

- **B-SP30**
  - SP Special Session
  - HeartRhythm Journal Presents — Basic Mechanisms of Cardiac Arrhythmias
  - CME Credit: 1
  - Room 204

- **B-SP31**
  - SP Special Session
  - Female EPs for Female Patients: Do We Need Women’s Health Centers?
  - CME Credit: 1
  - Room 259

**1:30 – 2:15 p.m.**

- **B-080**
  - AP How-To
  - How to Differentiate Tachycardia Mechanisms: From ECG to Intracardiac Electrograms
  - CME Credit: 1.5
  - Room 210A

- **B-081**
  - AP How-To
  - How to Develop a Comprehensive AF Program — Prevention to Procedure
  - CME Credit: 1.5
  - Room 210B

- **B-082**
  - BS Core Curriculum
  - Mechanistic Insights Informing AF Ablation Strategies
  - CME Credit: 1.5
  - Room 160

- **B-083**
  - CIED Debate
  - The LifeVest Should Be Prescribed for Patients With Newly Diagnosed Systolic Dysfunction
  - CME Credit: 0.75
  - Room 252

**1:30 – 2:30 p.m.**

- **B-PU03**
  - SP Pioneers Unplugged
  - Pioneers in Regenerative Medicine
  - CME Credit: 0
  - EPicenter

**1:30 – 3 p.m.**

- **B-085**
  - CA How-To
  - Epicardial VT Ablation — How to Get in Safely and Perform Effective Ablation
  - CME Credit: 1.5
  - Room 153

- **B-084**
  - CA Core Curriculum
  - Fibrosis, the Atrium, and Atrial Fibrillation: Can We Tailor the Procedure to the Pathology?
  - CME Credit: 1.5
  - Room 151
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<td><strong>Case Based Tutorial</strong></td>
<td>Case Based Tutorial: How I Manage Patients With PMVT/VF: Cases From the Trenches</td>
<td>Room 157</td>
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<td><strong>How-To</strong></td>
<td>How to Use the 12-Lead ECG to Effectively Plan Your Procedures: Real-World Case Studies</td>
<td>Room 156</td>
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<td>Masterful Dissection of Vexing Diagnostic Dilemmas in the EP Lab</td>
<td>Room 253</td>
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<td><strong>Joint Session</strong></td>
<td>Management Approaches for Atrial Arrhythmias Across the Globe</td>
<td>Room 107</td>
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<td><strong>Case Based Tutorial</strong></td>
<td>Controversial Issues in CRT Indication</td>
<td>Room 254</td>
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<td>Case Based Tutorial: Patient-Centric Care for the CRT Patient</td>
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<td><strong>Joint Session</strong></td>
<td>Does Heart Failure Necessarily Mean Rhythm Failure?</td>
<td>Room 107</td>
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<tr>
<td><strong>Joint Session</strong></td>
<td>Trials Challenging Current Guidelines for Primary Prevention ICD in Heart Failure</td>
<td>Room 162</td>
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<tr>
<td><strong>Core Curriculum</strong></td>
<td>Learning and Sharing: Pediatric Electrophysiology Across the Pond and Across Borders</td>
<td>Room 205B</td>
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<tr>
<td><strong>Complication Theatre</strong></td>
<td>Nightmare Cases in Pediatric and Adult Congenital Electrophysiology</td>
<td>Room 204</td>
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<td><strong>Featured Symposium</strong></td>
<td>Current Status of Left Atrial Appendage Occlusion: Who, When and How?</td>
<td>Ballroom East, BCEC</td>
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<td><strong>Joint Session</strong></td>
<td>Global Citizenship: Current State, Challenges &amp; Opportunities for Cardiac Pacing in Africa</td>
<td>Room 258B</td>
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<td><strong>Special Session</strong></td>
<td>Insights From Precision Autopsies: How Postmortem Genetic Testing Can Help Serve Patients With a Family History of Sudden Death</td>
<td>Room 109</td>
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<td><strong>Special Session</strong></td>
<td>LAA I — Left Atrial Appendage Closure: Anatomy, Patient Selection, and Update on the Evidence</td>
<td>Room 205A</td>
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<td><strong>Special Session</strong></td>
<td>Professional Development for Women in EP</td>
<td>Room 259</td>
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<td><strong>Poster Session V</strong></td>
<td>The S-ICD Should Be the Default Device for Primary Prevention in Patients Without Pacing Indications</td>
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<td><strong>Poster Session V</strong></td>
<td>Do We Really Need So Many Guidelines on the Same Topic? A Call for More Multi-National Consensus Documents</td>
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<td><strong>Moderated Poster</strong></td>
<td>Clinical Trials That Address Critical Management Issues for AF Patients</td>
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<td><strong>Case Based Tutorial</strong></td>
<td>Rapid Fire Cases: Clinical EP From Lab to Floor and Beyond</td>
<td>Room 210B</td>
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<td>Evaluation of Sudden Cardiac Death Risk</td>
<td>Room 210A</td>
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<td>Illuminating the Way Forward With Cardiac Optogenetics</td>
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<td>B-102</td>
<td>CIED</td>
<td>Case Based Tutorial: Making Great Devices Even Better: The Role of Post-implant Optimization of ICD Programming</td>
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<td>B-103</td>
<td>CIED</td>
<td>How-To: CIED Detected Subclinical Atrial Fibrillation: How to Monitor and How to Treat?</td>
<td>Room 205B</td>
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<td>B-104</td>
<td>CIED</td>
<td>Joint Session: Management of CIED Infections: Differences Between Western and Eastern Countries</td>
<td>Room 107</td>
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<td>B-105</td>
<td>CIED</td>
<td>Joint Session: Controversies in Device Therapy: The Experts Clinical Decisions</td>
<td>Room 259</td>
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<td>B-106</td>
<td>CA</td>
<td>Core Curriculum: Arrhythmias Arising From the His-Purkinje System</td>
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<td>B-107</td>
<td>CA</td>
<td>Rapid Fire Cases: PVI Non-Responders After Repeat Procedures: How to Deal With Symptomatic Patients</td>
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<td>B-108</td>
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<td>Joint Session: Catheter Ablation of Ventricular Arrhythmias in Unusual Scenarios</td>
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<td>B-109</td>
<td>CEP</td>
<td>Case Based Tutorial: How I Map Atrial Fibrillation: Cases to Illustrate Competing Approaches</td>
<td>Room 157</td>
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<tr>
<td>B-110</td>
<td>CEP</td>
<td>Complication Theatre: Preventing Sudden Death and Latrogenic Complications in Patients With Inherited Arrhythmia Syndromes</td>
<td>Room 156</td>
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<td>B-111</td>
<td>CEP</td>
<td>Joint Session: Atrio-Esophageal Fistula: From Recognition to Therapeutic Intervention</td>
<td>Room 258B</td>
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<tr>
<td>B-112</td>
<td>HF</td>
<td>Master Class: Would I Give This Patient an ICD?</td>
<td>Room 254</td>
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<td>B-113</td>
<td>HF</td>
<td>Rapid Fire Cases: Challenging Clinical Cases: Is There One Right Choice?</td>
<td>Room 257</td>
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<td>B-114</td>
<td>PEDS</td>
<td>Core Curriculum: Device Therapy for the Future: A Joint Session Pediatrics and CIED</td>
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<td>B-115</td>
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<td>Master Class: Oh Captain, My Captain</td>
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<tr>
<td>B-116</td>
<td>SP</td>
<td>Joint Session: Diagnostic Challenges and Risk Stratification in Arrhythmogenic Cardiomyopathy</td>
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<tr>
<td>B-117</td>
<td>SP</td>
<td>Late-Breaking Clinical Trials: Late-Breaking Clinical Innovations</td>
<td>Ballroom East, BCEC</td>
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<td>B-118</td>
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<td>Special Session: What You Didn't Learn About in Fellowship!</td>
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<td>B-119</td>
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<td>Special Session: LAA II — Closure: Evolving Evidence &amp; Regulatory Considerations</td>
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<td>B-120</td>
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<td>Special Session: HRS Clinical Documents Process Evolution</td>
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<td>B-121</td>
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<td>Special Session: Awards and Recognition Ceremony</td>
<td>Ballroom West, BCEC</td>
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<td>B-122</td>
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<td>Special Session: Presidents’ Reception</td>
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6:15 – 7:15 p.m.

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7:15 – 8:15 p.m.

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### SATURDAY, MAY 12

#### 8 – 9:30 a.m.

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<td>Preparing for the IBHRE Cardiac Device Therapy Exam — Part I</td>
<td>Room 151</td>
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<td>How to Implant Devices via Less Typical Routes and Techniques</td>
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<td>Disasters in Device Therapy: How to Recognize, Manage, and Prevent?</td>
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<td>Optimal Force, Power, Duration, and Irrigation Flow Rate During Radio-Frequency Left Atrial Ablation</td>
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<td>Magnetic Resonance-Guided Electrophysiological Intervention: Challenges and Opportunities</td>
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<td>Advanced Cardiac Imaging for Electrophysiologists</td>
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<td>Preparation for ABIM and EHRA Examination</td>
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<td>Arrhythmias in Advanced Heart Failure</td>
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<td>B-126</td>
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<td>How-To</td>
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<td>Programming for Success: How to Optimize Response in CRT Once the LV Lead Is in?</td>
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<td>Rapid Fire Pediatric and Adult Congenital Cases</td>
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<td>CMR in Electrophysiology: From Investigational Tool to Clinical Application</td>
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#### 9:30 a.m. – Noon

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#### 10:30 a.m. – Noon

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<td>Novel Roles for an Old Actor: Connexins and the Control of Heart Rhythm</td>
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<td>How to Place Ventricular Leads to Optimize Outcomes</td>
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<td>Esophageal Injury: How to Avoid, Recognize, and Treat This Potentially Deadly Complication</td>
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<td>Preventing Sudden Cardiac Death in Special Heart Failure Populations</td>
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<td>Treating Heart Failure Patients: Diversity in Patient Populations</td>
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<td>How to Deal</td>
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- **Premier Session**  
- **Fellows-in-Training**  
- **Practice Management**  
- **Quality Improvement**
2018 BOARD REVIEW COURSE
Clinical Cardiac Electrophysiology

COURSE DIRECTOR
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INDUSTRY-EXPERT PRESENTATIONS IN RHYTHM THEATERS

Industry-Expert Presentations in Rhythm Theaters provide valuable opportunities for attendees to learn about new data and advances on products and services as well as hear from industry experts on the latest clinical information and innovation. Visit the Mobile App or Online Itinerary Planner for more details on presentations and participating speakers or visit: HRSsessions.org/RhythmTheaters.

RHYTHM THEATER 1 – EXHIBIT HALL, BOOTH 386

Wednesday, May 9
3:30 – 4:30 p.m.  
Sponsored by Medtronic

5:15 – 6:15 p.m.  
Contemporary Controversies and Innovative Solutions in Clinical Electrophysiology  
Sponsored by Biotronik

Thursday, May 10
9:30 – 10:30 a.m.  
The Growing Prevalence of AF in CIED Patients: Is There a Need for Devices that Detect, Reduce, and Respond to AF?  
Sponsored by Medtronic

12:15 – 1:15 p.m.  
Cryoballoon Ablation in 2018: Continued Advances  
Sponsored by Medtronic

3:15 – 4:15 p.m.  
Stroke and AF: From High Risk to Secondary Prevention  
Sponsored by Medtronic

Friday, May 11
9:30 – 10:30 a.m.  
Reducing CIED Complications: Current and Future State  
Sponsored by Medtronic

12:15 – 1:15 p.m.  
AdaptivCRT® Algorithm Outcomes: What’s New and What’s Coming?  
Sponsored by Medtronic

RHYTHM THEATER 2 – EXHIBIT HALL, BOOTH 1287

Wednesday, May 9
3:30 – 4:30 p.m.  
Optimizing Treatment to Improve Outcomes: Implementing the New Guideline for Managing Heart Failure with Reduced Ejection Fraction  
Sponsored by Novartis

5:15 – 6:15 p.m.  
Expert Conversations in Heart Failure: Connecting the Pieces  
Sponsored by Novartis

Thursday, May 10
9:30 – 10:30 a.m.  
HEARTLIGHT Endoscopically Guided Laser Balloon Ablation for the Treatment of Atrial Fibrillation (AF): Today, Tomorrow and Beyond  
Sponsored by CardioFocus

12:15 – 1:15 p.m.  
Role of the Left Atrial Appendage in AFib Beyond Stroke Prevention  
Sponsored by StertureHeart

3:15 – 4:15 p.m.  
Interventional CRT Implant Techniques  
Sponsored by Merit Medical

Friday, May 11
9:30 – 10:30 a.m.  
Patient Stands Up, Blood Pressure Goes Down: Diagnostic and Management Considerations for Symptomatic Neurogenic Orthostatic Hypotension  
Sponsored by Lumed

12:15 – 1:15 p.m.  
Robotics: Shaping the Future of Medicine  
Sponsored by Sternotaxis

*Note: The Industry-Expert Presentations are not approved for continuing education credit.
OFFICIAL EDUCATIONAL SATELLITE SYMPOSIA AND INDUSTRY EDUCATING PROFESSIONALS DAY

The following programs are not part of the Heart Rhythm 2018 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 8
7 a.m. – 4 p.m.
The 31st Annual Fellows Course — Interpreting the Unknown Electrogram
Supported by Medtronic
This activity is specific to the needs of Fellows-in-Training
Plaza Ballroom, Seaport Hotel
4:30 – 9 p.m.
Realizing Operational Efficiency with CARTO - Mapping, Workflow, Fluoroscopy Reduction
Sponsored by Biosense Webster, Inc.
This activity is specific to the needs of Fellows-in-Training, Future Leaders and Electrophysiologists
Lighthouse Ballroom, Seaport Hotel
6 – 9 p.m.
Accessing the Heart from Any Approach: Advanced Techniques for EP Procedures
Sponsored by Baylis Medical Company, Inc.
This activity is designed for the clinical electrophysiology fellow
Harbor Ballroom 1, The Westin Boston Waterfront
6:30 – 9 p.m.
Advanced EP Concepts: A Cleveland Clinic Perspective
Sponsored by The Cleveland Clinic Center for Continuing Education
Supported by unrestricted educational grants by multiple companies
Commonwealth Ballroom, The Westin Boston Waterfront

Wednesday, May 9
11:45 a.m. – 1:45 p.m.
15th Annual Learn from the Experts: Approach to the Unknown Tracing
Supported by Medtronic
This activity is specific to the needs of Fellows-in-Training, Electrophysiologists, and Allied Health Professionals
Harbor Ballroom, The Westin Boston Waterfront
11:45 a.m. – 1:45 p.m.
Achieving Optimal Outcomes for Persistent Atrial Fibrillation Patients through Hybrid Ablation
Joint-Providership by MediaSphere Medical LLC and Ciné-Med
Supported by AtriCure
Commonwealth Ballroom, The Westin Boston Waterfront
11:45 a.m. – 1:45 p.m.
Lunch & Learn: Leadless Cardiac Pacing with the Micra™ Transcatheter Pacing System (TPS)
Supported by Medtronic
Plaza Ballroom, Seaport Hotel
6:30 – 9:30 p.m.
Lead Management 2018: The Pursuit of Efficiency, Safety and Excellence
Sponsored by The Cleveland Clinic Center for Continuing Education
Supported by unrestricted educational grants from multiple companies
Commonwealth Ballroom, The Westin Boston Waterfront
6:30 – 9:40 p.m.
EP Cases for the Real World
Co-Sponsored by MediaSphere Medical, Ciné-Med and St. David’s Healthcare
Supported by unrestricted educational grants by multiple companies
Harbor Ballroom 1, The Westin Boston Waterfront
HANDS-ON EDUCATIONAL SESSION

**Wednesday, May 9**

11 a.m. – 2 p.m.
Room 210 AB, BCEC

The Hands-On Educational Session is a must-attend event for a complete curriculum. This session allows you the opportunity to supplement the Allied Professionals Forums with engaging, tactile training on industry’s latest technology and therapies. The case studies and topics discussed in Allied Professionals Forums correlate directly to the products on display in the Hands-On Educational Session to create a comprehensive experience.

The Hands-On Educational session allows allied professionals to meet with industry representatives and offers the opportunity for individual education on the latest technology and therapies in a less formal setting.

**Participating companies:**

- Abbott
- Biosense Webster, Inc.
- Invuity
- iRhythm
- Lundbeck

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**Thursday, May 10**

6:30 – 7:30 a.m

**New Tools for Electrophysiologists: The Treatment of Central Sleep Apnea in Heart Failure Patients**
*Supported by The Ohio State University Center for Continuing Medical Education*
*Supported in part by an educational grant from Respicardia*
Commonwealth Ballroom BC, The Westin Boston Waterfront

6:30 – 8:15 p.m.

**Clinical Implications of Innovation in Pulmonary Vein Isolation and Noninvasive Preprocedural Mapping**
*Sponsored by Medtronic*
Plaza Ballroom, Seaport Hotel

6:30 – 8:30 p.m.

**China Night**
*This event is organized by the Chinese Society of Pacing and Electrophysiology (CSPE), China Society of Arrhythmias (CSA) and China International Medical Foundation (CIMF), supported by Chinese American Heart Association (CNAHA), sponsored by Medtronic (Shanghai) Management Co., Ltd.*
Harbor Ballroom 2, The Westin Boston Waterfront

6:30 – 8:30 p.m.

**Early Ambulation for AF Ablation Patients: Opportunities, Challenges, and Economics**
*Educational Support by Cardiva Medical*
*Course Organizer: MediaSphere Medical*
Commonwealth Ballroom, The Westin Boston Waterfront

6:30 – 9 p.m.

**A Team Approach to Improving Efficiency in the EP Lab & Beyond**
*Course Organizer: MediaSphere Medical, LLC*
*Sponsored by Biosense Webster*
Grand Ballroom CD, The Westin Boston Waterfront

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**Friday, May 11**

6 – 7:30 a.m

**Contemporary S-ICD Implant Management**
*Sponsored by Boston Scientific*
Pacific Ballroom A-D, Renaissance Boston Waterfront Hotel
FELLOWS-IN-TRAINING ROUNDTABLE DISCUSSIONS

(Non-CME Activity)
Exhibit Hall, Booth 510
(Located in the front of the exhibit hall)

Thursday, May 10
3:15 – 4:15 p.m.

The Fellows-in-Training Roundtable offers a perfect 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. Light refreshments will be provided.

This non-CME activity is sponsored by ZOLL, LifeVest

Key Opinion Leaders & Roundtable topics include:

Ablations, Devices or Lead Extractions: Which One is the Best EP Track for Me?
Andrea Natale, MD, FACC, FHRS, FESC

Balancing Work and Life
Rakesh Gopinathannair, MD, MA, FACC, FHRS, FAHA

Getting Published
Vivek Reddy, MD

How to Work with Professional Societies
Rahul N. Doshi, MD, FACC, FHRS

Job Hunting Strategies
Joshua Cooper, MD, FACC, FHRS

Private vs Academic
Rodney Tung, MD

Research
Roger G. Carrillo, MD, FHRS, CCDS

Social Media
Luigi DiBiasi, MD, PhD, FACC, FHRS

What I Wish I Knew in Fellowship
John D. Day, MD, FACC, FHRS

Fellows can further personalize their experience by selecting from more than 130 sessions tagged Fellows-in-Training, including case-based tutorials, 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 10-23 of this program.
<table>
<thead>
<tr>
<th>EXHIBITORS</th>
<th>As of April 12, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>View the most up-to-date listing at: HRSsessions.org/Exhibitors or under the “Exhibitors” tab in the App.</td>
<td></td>
</tr>
</tbody>
</table>

| 202 | 3D Systems |
| 102 | Abbott |
| 169 | ABIM - American Board of Internal Medicine |
| 241 | Acutus Medical |
| 375 | Adagio Medical, Inc. |
| 662 | AliveCor, Inc. |
| 538b | AHA/Get with the Guidelines |
| 200 | AltaThera Pharmaceuticals |
| 976 | Ambyr Genetics |
| 1164 | American College of Cardiology |
| 1417 | American Heart Association Inc. |
| 1375 | Anthem Medical LLC |
| 869 | APN Health LLC |
| 167 | Arrhythmia Alliance |
| 779 | Asia Pacific Heart Rhythm Society |
| 1442 | AtriCure, Inc. |
| 686 | Aziyo Biologics, Inc. |
| 668 | BD / Bard Davol |
| 474 | Bardy Diagnostics |
| 586 | Bar-Ray Products |
| 1162 | Barrier Technologies |
| 128 | Baylis Medical |
| 1473 | Bio Digital |
| 1037 | Biosense Webster |
| 543 | BioTel Heart CardioNet / LifeWatch |
| 1028 | BIOTRONIK |
| 1272 | Blueprint Genetics |
| 1301 | BMS/Pfizer |
| 1414 | Boehringer Ingelheim Pharmaceuticals, Inc. |
| 511 | Boston Scientific |
| 1071 | Cardiac Insight Inc. |
| 370 | Cardiac RMS |
| 110 | CardioFocus, Inc. |
| 1470 | CARDIOTEXT PUBLISHING |
| 786 | Cardiovascular Business |
| 774 | Cardiva Medical, Inc. |
| 127 | Carrot Medical, LLC |
| 574 | Cascade Refining, Inc. |
| 1100 | Catheter Precision |
| 1273 | CathVision |
| 201 | Change Healthcare |
| 401 | CIRCA Scientific LLC |
| 580 | Cleveland Clinic |
| 763 | CNSystems Medizintechnik GmbH |
| 1400 | Conavi Medical |
| 236 | Cook Medical |
| 508 | Covenant HealthCare |
| 268 | Cura Surgical |
| 563 | dms-service llc |
| 271 | Dysautonomia International |
| 875 | Eagle Picher |
| 123 | EBR Systems Inc |
| 1476 | Elsevier, Inc. |
| 111 | EncaptureMD Flexible Informatics |
| 768 | Ensense Biomedical Technologies Shanghai |
| 1371 | EpiEp Inc. |
| 1320 | EPreward |
| 274 | European Heart Rhythm Association |
| 1363 | FIAB SpA |
| 1174 | Finapres Medical Systems B.V. |
| 1103 | Fischer Medical |
| 1462 | G Medical Innovations, USA, Inc. |
| 675 | Galgo Medical S.L. |
| 1418 | GE Healthcare |
| 1170 | GeneDx |
| 464 | Geneva Healthcare Inc. |
| 162 | Heartbeat International Foundation |
| 538 | Heart Rhythm Society EPicenter |
| 990 | Heartcor Solutions |
| 1263 | HMP Communications |
| 1474 | Human Telemetry |
| 538a | IAC (Intersocietal Accreditation Commission) and Cardiac EP Accreditation |
| 538c | IBHRE and CCDS, CEPS, CEPS-PC, CEPS-AC |
| 1177 | IIAM |
| 270 | Implicity |
| 685 | Impulse Dynamics |
| 1077 | Imricor |
| 242 | InfoBionic |
| 221 | inHEART |
| 782 | Innovative Health |
| 568 | Integer Holdings |
| 1421 | Invitae |
| 587 | Invuity, Inc. |
| 177 | iRhythm Technologies, Inc. |
| 1063 | ISLAA |
| 776 | Itamar Medical |
| 765 | Lindacare |
| 374 | LivaNova (formerly Sorin Group) |
| 528 | Lundbeck |
| 142 | Luxchath, LLC |
| 787 | Manual Surgical Sciences, LLC |
| 263 | MAVIG GmbH |
| 171 | MediaSphere Medical LLC |
| 673 | MEDICALgRaphics S.A./Medi-Lynx |
| 1312 | Medcomp, Inc. |
| 562 | Medcore Co., Ltd. |
| 879 | Meditek LTD |
| 175 | Medtronic |
| 512 | MentiQe |
| 1475 | Merit Medical |
| 1062 | Mogul Enterprises Inc. |
| 1300 | Muri, Inc. |
| 773 | My-Cardia (USA), Inc. |
| 676 | National Manufacturing Co. Inc. |
| 170 | National Society of Genetic Counselors |
| 462 | NewPace Ltd. |
| 680 | Nexus Pharmaceuticals |
| 1275 | Ninety One |
| 1076 | NorthEast Monitoring, Inc. |
| 1410 | Northwestern Medicine |
| 468 | Novartis Pharmaceuticals Corporation |
| 881 | NUUBO |
| 1372 | OBP Medical |
| 115 | Oscor Inc. |
| 1271 | Osypka AG |
| 1472 | Oxford University Press |
| 1270 | PaceMate |
| 527 | Philips |
| 770 | Phillips-Medisize, a Molex Company |
| 1201 | Pressure Products Medical Supplies Inc. |
| 1324 | Preventice Solutions |
| 974 | Progeny Genetics |
| 1101 | Quail Digital |
| 674 | Quest Diagnostics |
| 275 | Respicardia, Inc. |
| 1262 | RhythmMedix |
| 1373 | Rhythm Xience, Inc. |
| 163 | SADS Foundation |
| 368 | Sanofi |
| 1436 | ScottCare Cardiovascular Solutions |
| 1070 | SentreHEART, Inc. |
| 301 | Siemens Healthineers |
| 537 | Stereotaxis, Inc. |
| 302 | Stryker |
| 1264 | Synaptic Medical |
| 576 | Terumo Interventional Systems |
| 1105 | Texas Childrens Hospital |
| 369 | TZ Medical |
| 1376 | Vasomedical Inc. |
| 168 | Vermed, a Nissha Company |
| 785 | VivaLNK Inc. |
| 788 | VPatch Cardio Ltd. |
| 509 | WellStar Health System |
| 1477 | Wiley |
| 1471 | Wolters Kluwer |
| 1370 | World Society of Arrhythmias |
| 1424 | ZOLL Medical |
| 1274 | Zywie, Inc. |

**EXHIBIT HALL HOURS**

- **Wednesday, May 9** | 3 – 6:30 p.m.
- **Thursday, May 10** | 9 a.m. – 4:30 p.m.
- **Friday, May 11** | 9 a.m. – 4:30 p.m.
### EPICENTER PRESENTATIONS

**EPicenter THEATER, Booth 538**

### Wednesday, May 9

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>CME Credit</th>
</tr>
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<tbody>
<tr>
<td>5 – 6 p.m.</td>
<td>Heart Rhythm Bowl: Semi-finals</td>
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### Thursday, May 10

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>CME Credit</th>
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<tbody>
<tr>
<td>9:30 – 10:30 a.m.</td>
<td>Best in Show Case Reports</td>
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<tr>
<td>10:45 – 11:45 a.m.</td>
<td>Improving Patient Safety: Clinicians, FDA, and AAMI/Industry Working Together</td>
<td>0</td>
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<tr>
<td>12:15 – 1:15 p.m.</td>
<td>Heart Rhythm Bowl: Finals</td>
<td>0</td>
</tr>
<tr>
<td>1:30 – 2:45 p.m.</td>
<td>Pioneers in Basic Mechanisms</td>
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<tr>
<td>3:15 – 4:15 p.m.</td>
<td>Novel Therapies for Heart Failure</td>
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### Friday, May 11

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>CME Credit</th>
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<tbody>
<tr>
<td>9:30 – 10:30 a.m.</td>
<td>Exploring the Ventricular Substrate</td>
<td>0</td>
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<tr>
<td>10:45 – 11:45 a.m.</td>
<td>Pioneers in AFib</td>
<td>0</td>
</tr>
<tr>
<td>12:15 – 1:15 p.m.</td>
<td>Mainstream Media: Using Social Media to Find Your Voice Within HRS and Your Practice</td>
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### POSTER AREA, EXHIBIT HALL

### Wednesday, May 9

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>CME Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 – 6:30 p.m.</td>
<td>Featured Poster Session &amp; Reception</td>
<td>0</td>
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### Thursday, May 10

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>CME Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30 a.m. – Noon</td>
<td>Poster Session II</td>
<td>0</td>
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<tr>
<td>2 – 4:30 p.m.</td>
<td>Poster Session III</td>
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### Friday, May 11

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>CME Credit</th>
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</thead>
<tbody>
<tr>
<td>9:30 a.m. – Noon</td>
<td>Poster Session IV</td>
<td>0</td>
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<tr>
<td>2 – 4:30 p.m.</td>
<td>Poster Session V</td>
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### Saturday, May 12

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>CME Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30 a.m. – Noon</td>
<td>Poster Session VI</td>
<td>0</td>
</tr>
</tbody>
</table>
SAVE THE DATE

MAY 8-11 2019
SAN FRANCISCO

HEART RHYTHM
SCIENTIFIC SESSIONS

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Be sure to see Poster #9300 on the benefits of online vs offline monitoring methods to diagnose paroxysmal AF.
Learn more at Poster Session II, May 10th, 9:30 am – 12:00 pm.

pocketecg.com/HRS2018