



**Penn Medicine**  
Continuing Medical and  
Interprofessional Education

**LIVE VIRTUAL**

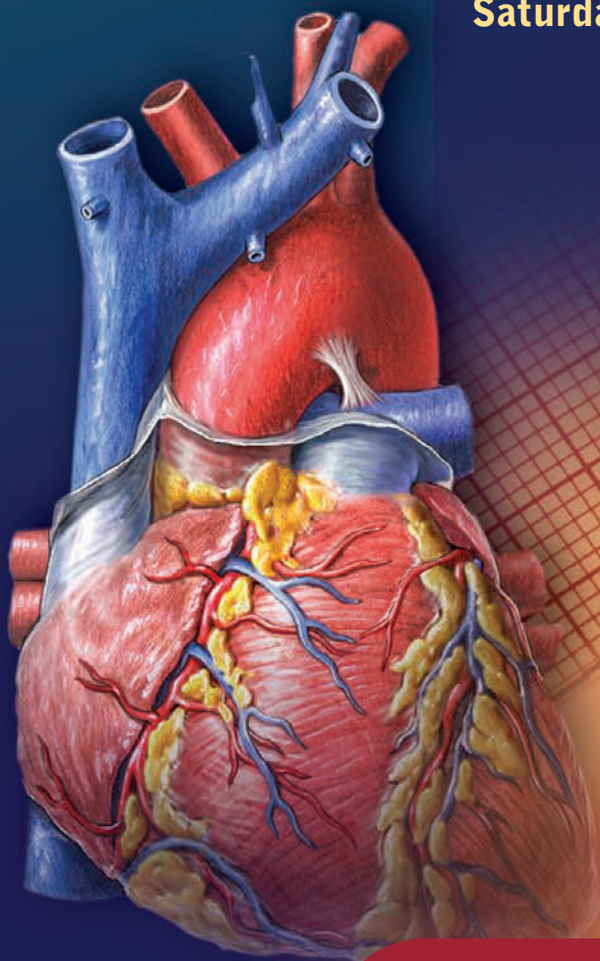
# **The Mark E. Josephson Twenty-Eighth Annual State-of-the-Art Arrhythmia Symposium**

**Arrhythmia Diagnosis & Treatment Standards 2021  
and Leonard N. Horowitz, MD  
Memorial Lecture**

**A CME/CNE-ACCREDITED SYMPOSIUM**

**Saturday, September 11, 2021**

**7:45 AM – 5:00 PM EST**



Co-sponsored with:



<https://upenn.cloud-cme.com/arrhythmia2021>

## PROGRAM OVERVIEW & TARGET AUDIENCE

This program is designed to provide electrophysiologists, cardiologists, internists, and associated professionals with state-of-the art information on invasive and non-invasive electrocardiographic and electrophysiologic tools used in the diagnosis, evaluation, and treatment of cardiac rhythm disorders. Attendees of the symposium will develop an understanding of the best practice approaches to diagnosing and treating patients with atrial fibrillation, other atrial and ventricular tachycardias, and risk factors of sudden death.

This symposium pays tribute to the scientific and clinical legacy of Dr. Mark E. Josephson who served as a mentor to many of the faculty.

The symposium is coupled with the Leonard N. Horowitz, MD Memorial Lecture. This annual lecture serves as an ongoing salute to a colleague and friend who dedicated his much too brief career successfully advancing the field of arrhythmia management.

### Learning Objectives

- Discuss the use and value of new techniques and technologies employed for complex EP device and ablation cases.
- Review and assess the differences in the various oral anticoagulants including appropriate use, dosing, risks, and contraindications.
- Discuss indications and use of new pacing techniques including His bundle (HBP) and left bundle pacing.
- Recognize ECG clues to detect patients at risk for sudden death.
- Describe the complexities regarding arrhythmia management in patients with congenital heart disease.
- Describe the appropriate evaluation and treatment for patients presenting with syncope.
- Discuss the evaluation of sudden death and arrhythmia risk and appropriate treatment in patients with hypertrophic cardiomyopathy.
- Apply into practice the newest information regarding evaluation and treatment of atrial arrhythmias including screening for episodes and ablation indications/techniques/endpoints.

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## Hosting Department

*The Mark E. Josephson Twenty-Eighth Annual State-of-the-Art Arrhythmia Symposium* is hosted by the Department of Medicine, Division of Cardiology, Electrophysiology Section, University of Pennsylvania Health System.

## Accreditation



JOINTLY ACCREDITED PROVIDER™  
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In support of improving patient care, Penn Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

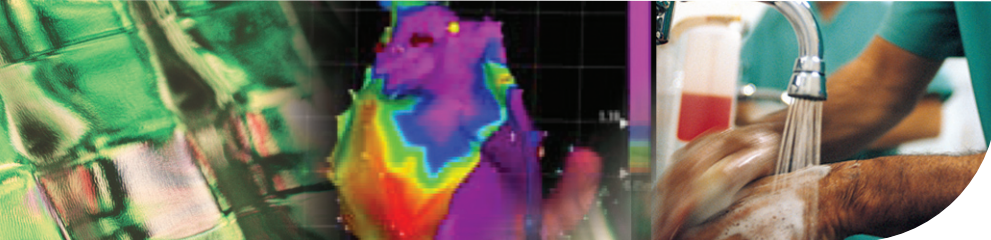
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**Physicians:** Penn Medicine designates this live activity for a maximum of 8.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Nurses:** This program provides 8.75 contact hours.

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**Certificates and Transcripts:** After the conference has concluded, all participants will receive a followup email with a link and instructions on how to claim their credit. Once participants submit the request for credit, the earned credits will be available for viewing on your transcript or available for printing at <https://upenn.cloud-cme.com>. Please note that the individual certificate will not be mailed.



## Meeting Location

*The Mark E. Josephson Twenty-Eighth Annual State-of-the-Art Arrhythmia Symposium* will be held Saturday, September 11, 2021 by live stream only. The virtual presentation will follow the scheduled agenda in real time (EST).

## Registration Fees

There is **no fee** to attend the *The Mark E. Josephson Twenty-Eighth Annual State-of-the-Art Arrhythmia Symposium* but registration is **required**. Please register online at <https://upenn.cloud-cme.com/arrhythmia2021>.

Your registration includes live stream access to the symposium and access to view the presentations (slides) online. In-person attendance is not permitted for this symposium. All pre-registered attendees will receive a link with instructions to sign-in and join the virtual conference by the Thursday preceding the symposium.

Please note: mailed registrations can take up to 5-10 business days before they are received. We are experiencing longer delays receiving mail due to the COVID-19 pandemic. We encourage all attendees to register online.

All registrations will be confirmed by email as long as your registration is received no later than September 10, 2021.

## Cancellation Policy

The University reserves the right to cancel or postpone any course due to unforeseen circumstances.

## Disclosures

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## Symposium Director

### Francis Marchlinski, MD

*Richard T. and Angela Clark President's Distinguished Professor  
Director, Cardiac Electrophysiology  
Director, Electrophysiology Laboratory  
University of Pennsylvania Health System  
Philadelphia, PA*

## Guest Faculty

### Sabine Ernst, MD, PhD

*Professor of Practice (Cardiology)  
National Heart & Lung Institute  
Imperial College  
London, UK*

### Valentin Fuster, MD, PhD

*Physician-in-Chief, Mount Sinai Hospital  
Director, Mount Sinai Heart  
New York, NY*

### Maully Shah, MBBS

*Professor of Pediatrics  
Children's Hospital of Philadelphia  
Philadelphia, PA*

### Katie Walsh, MBBCh BAO, MRCPI, MRCP UK

*Consultant Electrophysiologist  
Cork University Hospital  
Cork, Ireland*

### Peter J. Zimetbaum, MD

*Richard A. and Susan F. Smith Professor  
of Cardiovascular Medicine  
Beth Israel Deaconess Medical Center  
Harvard Medical School  
Boston, MA*

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## Faculty

All faculty are affiliated with the Perelman School of Medicine at the University of Pennsylvania Philadelphia, PA

### Jeffrey Arkles, MD

*Assistant Professor of Medicine  
Cardiac Electrophysiology*

### Trevor Bonney, PA-C

*Physician Assistant  
Cardiac Electrophysiology*

### John Bullinga, MD

*Clinical Associate Professor of Medicine  
Director, Cardiac Electrophysiology  
Penn Presbyterian Medical Center*

### David Callans, MD

*Professor of Medicine  
Cardiac Electrophysiology*

### Melissa Callans, CRNP

*Nurse Practitioner  
Cardiac Electrophysiology*

### Keith Cengel, MD, PhD

*Associate Professor of Radiation Oncology*

### Kirstan Clay-Weinfeld, CRNP

*Nurse Practitioner  
Cardiac Electrophysiology*

### Rajat Deo, MD

*Associate Professor of Medicine  
Cardiac Electrophysiology*

### Sanjay Dixit, MD

*Professor of Medicine  
Director, Electrophysiology Laboratory  
Philadelphia VA Medical Center*

### Andrew Epstein, MD

*Professor of Medicine  
Chief, Cardiology Section  
Philadelphia VA Medical Center*

**David Frankel, MD**

*Associate Professor of Medicine  
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**Fermin Garcia, MD**

*Associate Professor of Clinical Medicine  
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*Assistant Professor of Clinical Medicine  
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**Robert Hipp, PA-C, MS, MBA**

*Physician Assistant  
Cardiac Electrophysiology*

**Matthew Hyman, MD, PhD**

*Assistant Professor of Medicine  
Cardiac Electrophysiology*

**Yuli Y. Kim, MD**

*Associate Professor of Medicine and Pediatrics  
Medical Director, Philadelphia Adult  
Congenital Heart Center  
Fellowship Director  
Adult Congenital Heart Disease  
Penn Medicine and  
Children's Hospital of Philadelphia*

**Ramanan Kumareswaran, MD**

*Assistant Professor of Clinical Medicine  
Cardiac Electrophysiology*

**David Lin, MD**

*Associate Professor of Medicine  
Cardiac Electrophysiology*

**Jeffrey Luebbert, MD**

*Clinical Assistant Professor of Medicine  
Pennsylvania Hospital*

**Saman Nazarian, MD, PhD**

*Professor of Medicine  
Cardiac Electrophysiology*

**Tara Parham, CRNP**

*Nurse Practitioner  
Cardiac Electrophysiology*

**Emily Perovich, PA-C**

*Physician Assistant  
Cardiac Electrophysiology*

**Cynthia Ramos, CRNP**

*Nurse Practitioner  
Cardiac Electrophysiology*



**Michael Riley, MD, PhD**

*Associate Professor of Clinical Medicine  
Cardiac Electrophysiology*

**Pasquale Santangeli, MD, PhD**

*Associate Professor of Medicine  
Cardiac Electrophysiology*

**Robert Schaller, DO**

*Associate Professor of Clinical Medicine  
Cardiac Electrophysiology*

**Gregory Supple, MD**

*Associate Professor of Clinical Medicine  
Co-Director, Electrophysiology  
Fellowship Program*

**Steven Szablewski, CRNP**

*Nurse Practitioner  
Cardiac Electrophysiology*

**Cory Tschabrunn, PhD**

*Research Assistant Professor of Medicine  
Director, Translational  
Electrophysiology Program*

**Christian Yacono, PA-C**

*Physician Assistant  
Cardiac Electrophysiology*

**Amaryah Yaeger, RN**

*Registered Nurse  
Cardiac Electrophysiology*

**Erica Zado, PA-C**

*Physician Assistant  
Cardiac Electrophysiology*

## LIVE VIRTUAL

# The Mark E. Josephson Twenty-Eighth Annual State-of-the-Art Arrhythmia Symposium Saturday, September 11, 2021

ALL PRESENTATIONS ARE PRE-RECORDED UNLESS OTHERWISE INDICATED

7:00 – 7:30 AM

**Audience Connection and Review of  
Videoconferencing Guidelines**

7:30 – 10:40 AM

**Group Arrhythmia Session**

Moderator: Francis Marchlinski, MD

7:30 – 7:35 AM

**Welcome and Introduction**

Francis Marchlinski, MD

7:35 – 8:00 AM

**Josephson Keynote ECG Lecture:  
ECG Identification of Genetically Linked  
Arrhythmia Syndromes and VT/VF Risk**

- Long QT syndromes
- Brugada syndrome
- Arrhythmogenic RV cardiomyopathy
- Early repolarization
- Role of exercise testing and drug infusion

Rajat Deo, MD

8:00 – 8:15 AM

**LIVE Panel Discussion:  
ECG and Genetically Linked Syndromes**

Moderator: Francis Marchlinski, MD  
Panelists: Rajat Deo, MD, Pasquale Santangeli, MD,  
PhD, Matthew Hyman MD, PhD, Katie Walsh,  
MBBCh

8:15 – 9:15 AM

**Rapid-Fire Updates in the  
Management of Atrial Fibrillation –**

(12 minute presentations/20-minute panel discussion)  
Moderator: David Callans, MD

- Asymptomatic atrial fibrillation and late AF recurrence – when /how to treat  
Francis Marchlinski, MD
- Device detected AF and stroke risk  
David Lin, MD
- Latest technologies for safe and effective pulmonary vein isolation  
Gregory Supple, MD
- AF burden assessment –  
How important for tracking effect of therapy  
Katie Walsh, MBBCh
- Anticoagulation reversal agents –  
indications and risk  
Peter Zimetbaum, MD

9:15 – 9:35 AM

**LIVE Panel Discussion: Management of AFib**

Moderator: David Callans, MD  
Panelists: David Lin, MD, Francis Marchlinski, MD  
Gregory Supple, MD, Katie Walsh, MBBCh  
Peter Zimetbaum, MD

9:35 – 10:15 AM

**LAA Occlusion Will Replace Oral Anticoagulation  
in Non-valvular AF**

Pro: Pasquale Santangeli, MD, PhD (15 minutes)

Con: Peter Zimetbaum, MD (15 minutes)

LIVE Rebuttal: 5 minutes each

10:15 – 10:25 AM

**Challenges of VT Ablation in Structural Heart Disease**

- Overall experience
- Anatomic challenges: severe hypertrophy
- Prior surgery and epicardial substrate
- Too sick to ablate!

David Frankel, MD

10:25 – 10:40 AM

**Radiation Therapy for Refractory VT**

- Basic concepts
- Patient selection
- Preliminary results

Jeffrey Arkles, MD

10:40 – 11:00 AM

**LIVE Panel Discussion: Eliminating VT with Ablation**

Moderator: Francis Marchlinski, MD  
Panelists: David Frankel, MD, Jeffrey Arkles MD,  
Keith Cengel MD, PhD, David Callans MD,  
Sanjay Dixit MD

11:00 – 11:40 AM

**Leonard N. Horowitz MD**

**Memorial Lecture (LIVE) (LIVE)**

**Cardiac Manifestations of COVID-19 –  
Management Recommendations**

Valentin Fuster, MD, PhD

11:40 AM – 12:00 PM

**LIVE Panel Discussion: COVID and the Heart**

Moderator: Francis Marchlinski, MD  
Panelists: Valentin Fuster, MD, PhD,  
David Callans, MD, John Bullinga, MD,  
Peter Zimetbaum, MD

12:00 – 12:30 PM

**Lunch/Visit Exhibits**

12:30 – 2:45 PM

**General Cardiology**

**Afternoon Session – PART I**

Moderator: Andrew Epstein, MD

12:30 – 12:50 PM

**His Bundle (HB) Pacing, BiV with CS Lead and  
Left Bundle (LB) Pacing: Who, When, How and  
Expected Results?**

- Which patients are appropriate candidates?
- Technique and challenges
- Comparison of HB and LB pacing with BiV pacing
- Long term efficacy

Robert Schaller, DO

**12:50 – 1:10 PM**

**Hypertrophic Cardiomyopathy:  
Sudden Death Risk and More**

- HCM sudden death risk scores and new guideline recommendations
- Role of genetic testing
- Myomectomy: surgery/alcohol/catheter ablation
- Managing atrial fibrillation
- Role of Sub-Q ICD

*Michael Riley, MD, PhD*

**1:10 – 1:30 PM**

**ECG Clues to Identify Arrhythmia Mechanism  
and Improve Treatment**

- Bradyarrhythmias: nodal versus infranodal disease
- Tachyarrhythmias: SVT vs VT

*Ramanan Kumareswaran, MD*

**1:30 – 1:55 PM**

**LIVE Panel Discussion: Resynchronization Therapy/  
Hypertrophic CM and Diagnosis of VT**

*Moderator: Andrew Epstein, MD*

*Panelists: Robert Schaller, DO, Michael Riley, MD, PhD, Ramanan Kumareswaran, MD*

**1:55 – 2:45 PM**

**IN PERSON Case Presentations/Panel Discussion:  
Common Device Challenges:  
How to Recognize and Treat**

- Identifying infected pocket
- Inappropriate shocks for SVT/ST/AF
- Loss of BiV capture
- Recognizing common pacemaker pacing algorithms that look like dysfunction-when and how to image

*Moderator: Robert Schaller, DO*

*Panelists: David Lin, MD, Jeffrey Arkles, MD, Jeffrey Luebbert, MD, Gustavo Guandalini MD, Andrew Epstein, MD*

**2:45 – 3:00 PM Break/Visit Exhibits**

**3:00 – 5:00 PM**

**General Cardiology  
Afternoon Session – PART II**

*Moderator: David Lin, MD*

**3:00 – 3:20 PM**

**Cardiac Sarcoidosis**

- Defining the disease
- Role of PET, MR imaging and biopsy
- Role of EP evaluation
- When to give steroids, implant an ICD, and perform catheter ablation

*Saman Nazarian, MD, PhD*

**3:20 – 3:40 PM**

**Syncope: When to Worry and How to Evaluate**

- History
- ECG clues
- Imaging
- EP evaluation

*Matthew Hyman, MD, PhD*

**3:40 – 4:00 PM**

**LIVE Panel Discussion: Cardiac Sarcoidosis/Syncope**

*Moderator: David Lin, MD*

*Panelists: Saman Nazarian, MD, PhD, Matthew Hyman, MD, PhD, Sanjay Dixit, MD*

**4:00 – 5:00 PM**

**IN PERSON Case Presentations/Panel Discussion:  
ECG Abnormalities on Screening ECG and  
Evaluation of Post-Surgical Patients: Diagnosis and  
Clinical Implications**

- WPW syndrome
- Identifying phase 4 block and 2:1 block in the His-Purkinje system
- Drug induced long QT – How to recognize and manage
- Identifying slow atrial flutter that mimics sinus tachycardia
- When to pace after TAVR

*Moderator and Case Presentation: Sanjay Dixit, MD*

*Panelists: David Lin, MD, Ramanan Kumareswaran, MD, Jeffrey Luebbert, MD, Gustavo Guandalini, MD*

**12:30 – 2:30 PM**

**Advanced EP  
Afternoon Session – PART I**

*Moderators: Maully Shah, MBBS, Yuli Kim, MD*

**12:30 – 1:00 PM**

**Mapping and Ablation for  
Complex Atrial Arrhythmias in  
Congenital Heart Disease**

- Knowing the anatomy/pre-procedure imaging
- Value of remote navigation
- Best mapping and ablation strategies
- Expected outcomes

*Sabine Ernst, MD, PhD*

**1:00 – 1:30 PM**

**Overcoming Device Implantation Challenges  
in Adults with CHD**

- Anatomic challenges: dilatation/obstruction/no access
- Baffled by the baffle
- Epicardial pacing – new approaches

*Gregory Supple, MD*

**1:30 – 2:30 PM**

**IN PERSON Case Presentations and Panel Discussion:  
Arrhythmias in Congenital Heart Disease**

- Collaboration between pediatric and adult electrophysiologist
- Approaching the most challenging cases
- Understanding prior surgery/imaging/mapping and ablation

*Moderators and Case Presentations: Yuli Kim MD,*

*Maully Shah, MBBS*

*Panelists: Sabine Ernst, MD, PhD, Gregory Supple, MD*

**2:30 – 2:45 PM Break/Visit Exhibits**



# AGENDA

**2:45 – 5:00 PM**

## **Advanced EP**

### **Afternoon Session – PART II**

*Moderator: Katie Walsh, MBBCb*

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**2:45 – 3:05 PM**

## **Ablation of J wave and Brugada Syndromes**

- Defining the syndromes
- Endo/epi voltage correlation
- Endpoints and effectiveness of ablation

*Francis Marchlinski, MD*

**3:05 – 3:25 PM**

## **VF Trigger Mapping and Ablation**

- Common sites of origin
- Tricks for initiation
- Stabilizing the catheter

*Fermin Garcia, MD*

**3:25 – 4:15 PM**

## **Rapid Fire Technology Updates**

(10 minute presentations)

- Pulsed field ablation  
*Pasquale Santangeli, MD, PhD*
- High-power short-duration ablation techniques  
*Jeffrey Arkles, MD*
- Multielectrode mapping for AF, AT and VT  
*Cory Tschabrunn, PhD*
- Advances in cryoballoon technology  
*Gregory Supple, MD*
- Appendage closure with ICE guidance  
*Pasquale Santangeli, MD, PhD*

**4:15 – 5:00 PM**

## **LIVE Panel Discussion: VF, VT, AFib Ablation**

*Moderator: Katie Walsh, MBBCb*

*Panelists: Francis Marchlinski, MD, Fermin Garcia, MD, Jeffrey Arkles, MD, Cory Tschabrunn, PhD, Gregory Supple, MD, Pasquale Santangeli, MD, PhD*

**12:30 – 2:45 PM**

## **Associated Professional**

### **Afternoon Breakout Session – PART I**

*Moderator: Tara Parham, CRNP*

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**12:30 – 1:05 PM**

## **Nuts and Bolts of Cardiac Resynchronization and Physiologic Pacing**

- What is CRT, His bundle pacing (HB) and left bundle pacing?
- What's the evidence that they work?
- What to look for on ECG
- How to optimize pacing

*Trevor Bonney, PA-C*

**1:05 – 1:40 PM**

## **Arrhythmias Associated with Unusual Conditions: How to Evaluate and Manage**

- Myotonic dystrophy
- Cardiac amyloidosis
- Cardiac sarcoidosis

*Emily Perovich, PA-C*

**1:40 – 2:25 PM**

## **Anticoagulation Choice and Dosing in Special Circumstances**

- Obesity/malnutrition
- Following percutaneous coronary interventions
- Severe kidney or liver disease
- Valvular heart disease

*Robert Hipp, PA-C*

**2:25 – 2:45 PM**

## **LIVE Panel Discussion: Audience Q & A**

*Moderator: Tara Parham, CRNP*

*Panelists: Robert Hipp, PA-C, Emily Perovich, PA-C, Trevor Bonney, PA-C*

**2:45 – 3:00 PM**     **Break/Visit Exhibits**

**3:00 – 5:00 PM**

## **Associated Professional**

### **Afternoon Breakout Session – PART II**

*Moderator: Cynthia Ramos, CRNP*

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**3:00 – 3:35 PM**

## **Remote Monitoring of Devices in the Real World**

- The science behind the movement
- Best practices to handle alerts
- How to manage the mounds of data
- Incorporating data from “wearables”

*Amaryah Yaeger, RN*

**3:30 – 4:00 PM**

## **Managing EP Emergencies**

- Late cardiac tamponade
- Repetitive ICD shocks
- Lead dislodgement
- Post procedure neurological symptoms

*Kirstan Clay-Weinfeld, CRNP*

**4:00 – 4:15 PM**

## **LIVE Panel Discussion: Audience Q & A**

*Moderator: Cynthia Ramos, CRNP*

*Panelists: Amaryah Yaeger, RN, Kirstan Clay-Weinfeld, CRNP*

**4:15 – 5:00 PM**

## **IN PERSON Case Presentations/Audience Response: Every Day EP – Clinically Relevant Cases with a Twist**

- Look what I found on device interrogation!
- I thought that it was the right drug for the right patient, but...
- That can really happen after ablation?
- Well that's an interesting ECG!

*Moderator: Christian Yacono, PA-C*

*Panelists: Steven Szablewski, CRNP, Melissa Callans, CRNP, Erica Zado, PA-C*

**5:00 PM**

## **Thank You and Farewell**

*Francis Marchlinski, MD*

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### **Questions? Contact us at:**

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