



Penn Medicine

Continuing Medical and
Interprofessional Education

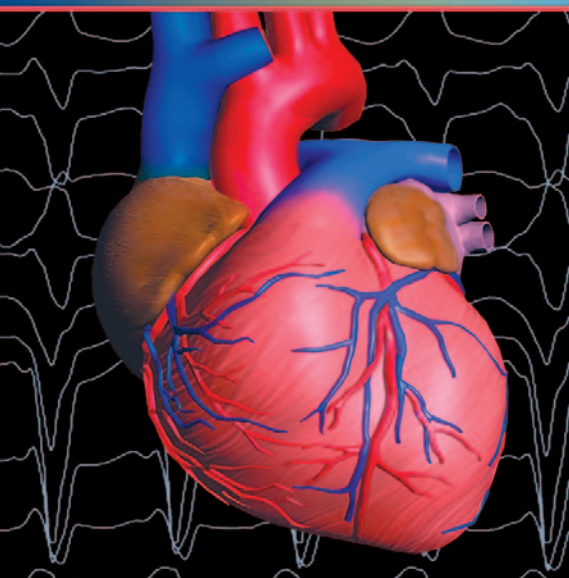
LIVELY DISCUSSIONS AND LIVE EP CASES

18th International Symposium on

VENTRICULAR ARRHYTHMIAS:

Pathophysiology & Therapy

www.vtsymposium.com



A CME-ACCREDITED SYMPOSIUM

**Friday & Saturday
October 13-14, 2023**

Co-hosted by:

**Hospital of the
University of Pennsylvania
The Mount Sinai Hospital**

Recognized by:



Heart Rhythm SocietySM
SYNCHRONY PROGRAM

COURSE DIRECTORS

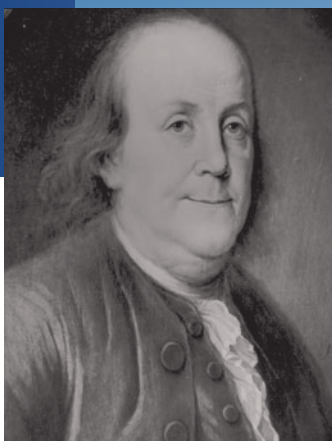
Francis Marchlinski, MD

David Callans, MD

Vivek Reddy, MD

Andre d'Avila, MD, PhD

Srinivas Dukkipati, MD



PROGRAM OVERVIEW

This is the 18th year for the *International Symposium on Ventricular Arrhythmias: Pathophysiology & Therapy*. Using a combination of didactic presentations, panel discussions, and question and answer sessions, our goal is to educate the participants in state-of-the-art information regarding the pathophysiology and treatment of ventricular arrhythmias. The structure of the symposium is meant to be highly interactive. There will also be VT ablation cases streamed live from the Hospital of the University of

Pennsylvania and Mount Sinai Hospital during which a moderated panel discussion and question and answer session will occur to educate and demonstrate to the audience members the most up-to-date mapping and ablation techniques for complex ventricular arrhythmias.

Hosting Organizations

The 18th *International Symposium on Ventricular Arrhythmias: Pathophysiology & Therapy* is hosted by the Department of Medicine, Division of Cardiology, University of Pennsylvania Health System, Philadelphia, PA and the Division of Cardiology, The Mount Sinai Hospital, New York, NY.

Target Audience

This course has been developed to meet the educational needs of electrophysiologists, cardiologists and other physicians and associated professionals with an interest in the pathophysiology and management of ventricular arrhythmias.

Program Objectives

At the conclusion of this symposium, participants should be able to:

- Provide a review of new information on the basic pathophysiology of ventricular arrhythmias
- Provide an in-depth understanding of current and state-of-the-art/future management strategies used for the treatment of ventricular arrhythmias in various disease states, including non-pharmacological therapies such as implantable device and catheter ablation techniques
- Discuss strategies to improve treatment outcome in patients with ventricular arrhythmias and structural heart disease, including new ablation techniques and technologies
- Discuss the current status and future role for device therapy in the management of sudden cardiac death and heart failure
- Discuss the role of new techniques for VT substrate assessment including high density mapping, MRI and use of artificial intelligence
- Describe risk stratification for sudden death and treatment including VF ablation in patients with VF due to various substrates and syndromes
- Identify the challenges related to treatment of PVCs and idiopathic VT
- Describe the status of ongoing multicenter VT-related trials and discuss future directions and questions to be answered

Accreditation



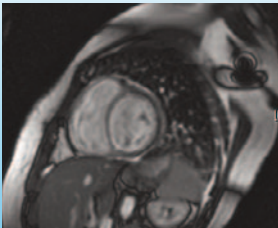
In support of improving patient care, Penn Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare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



Designation of Credit

Physicians: Penn Medicine designates this live activity for a maximum of 20.0 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Physician Assistants: AAPA accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credit*[™] from organizations accredited by ACCME or a recognized state medical society. PAs may receive a maximum of 20.0 Category 1 credits for completing this activity.



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.

Symposium

The 18th International Symposium on Ventricular Arrhythmias: Pathophysiology & Therapy will be held Friday & Saturday, October 13-14, 2023 at the Bellevue Philadelphia Hotel, 200 S. Broad Street, Philadelphia, PA 19106

Registration

Please register online at www.vtsymposium.com.

In-Person Registration Fees

Category	On/Or Before 9/15	After 9/15
Physicians	\$500.00	\$675.00
Biomedical, Pharmaceutical, or Medical Device Employees	\$500.00	\$675.00
Fellows, Residents, and Allied Healthcare Professionals	\$375.00	\$425.00

Virtual Registration Fees

Category (United States Attendance)	On/Or Before 9/15	After 9/15
Physicians	\$500.00	\$675.00
Biomedical, Pharmaceutical, or Medical Device Employees	\$500.00	\$675.00
Fellows, Residents, and Allied Healthcare Professionals	\$300.00	\$350.00

International Virtual Attendance* \$100.00

*Includes ONLY Physicians, Fellows, Residents, Allied Healthcare Professionals, and Biomedical/Pharmaceutical/ Medical Device Employees working outside of the United States.

In-person Attendees will receive access to the symposium, program handout, continental breakfast, lunch, breaks and the reception. Registration also includes access to view the presentations online for one year. Walk-ins are discouraged. Please be sure to register in advance.

Virtual Attendees will receive a confirmation email issued upon registration, which will include the registrant’s Unique Live-Stream Digital Pass and instructions on accessing the Symposium as a virtual attendee. The Unique Live-Stream Digital Pass provides access to the real-time stream across the registrant’s multiple devices. Prior to the symposium, the registrant will also receive a digital copy of the program handout.

LIVELY DISCUSSIONS AND LIVE EP CASES

18th International Symposium on VENTRICULAR ARRHYTHMIAS: Pathophysiology & Therapy

A CME-ACCREDITED SYMPOSIUM

Friday & Saturday, October 13-14, 2023

www.vtsymposium.com

All registrations will be confirmed by email as long as your registration is received no later than October 11, 2023.

Please save our Penn Medicine email
(penncmc@upenn.cloud-cme.com) to prevent
our emails from going to spam.

Meeting Location and Parking

The symposium will take place at the Bellevue Philadelphia Hotel located at 200 South Broad Street, Philadelphia, PA 19102. Visit the Bellevue website at https://www.hyatt.com/en-US/hotel/pennsylvania/the-bellevue-hotel/phlph?src=corp_lclb_gmb_seo_phlph for directions and additional information.

Parking: The Bellevue Philadelphia Hotel offers valet services and a self-parking garage. Parking and associated fees are not included in the registration fee and will not be validated.

Overnight Room Block

Hyatt at the Bellevue: A limited number of rooms have been reserved at a special group rate of \$269 per night single/double occupancy. Please click this link to secure your overnight room: <https://www.hyatt.com/en-US/group-booking/PHLPH/G-PNM3>. We recommend you make a reservation as soon as possible as there are a limited number of rooms. This room block is available until September 23, 2023 or until the block is full, whichever comes first.

Alternate Overnight Options Walkable to the Bellevue:

*no discounted room rate available.
Room availability is not guaranteed.

The Warwick at Rittenhouse Square
220 S. 17th St., Philadelphia, PA 19103 • 215-735-6000
<http://www.warwickrittenhouse.com/>

Club Quarters Hotel
1628 Chestnut St., Philadelphia, PA 19103
<https://clubquartershotels.com/locations/club-quarters-hotel-philadelphia>

DoubleTree by Hilton Hotel Philadelphia Center City
237 S Broad St., Philadelphia, PA 19107 • 215-893-1600
https://www.hilton.com/en/hotels/phlbldt-doubletree-philadelphia-center-city/?SEO_id=GMB-AMER-DT-PHLBLDT&cy_source=1_MTM3MjczNS03MTUtbG9jYXRpb24ud2Vic2l0ZQ%3D%3D

W Philadelphia
1439 Chestnut St., Philadelphia, PA 19102 • 215-709-8000
<https://www.marriott.com/en-us/hotels/phlwh-w-philadelphia/overview/?scid=f2ae0541-1279-4f24-b197-a979c79310b0>

Element Philadelphia Downtown
1441 Chestnut St., Philadelphia, PA 19102 • 215-709-9000
<https://www.marriott.com/en-us/hotels/phlel-element-philadelphia-downtown/overview/?scid=f2ae0541-1279-4f24-b197-a979c79310b0>

Cancellation

In order to process refunds for course withdrawals, cancellations must be received in writing by September 29, 2023 and are subject to a service charge equal to 10% of the registration fee but no less than \$25. No refunds will be issued thereafter.

The University reserves the right to cancel or postpone any course due to unforeseen circumstances. In the event of cancellation or postponement, the University will refund registration fees, but is not responsible for related costs or expenses to participants, including cancellation fees assessed by hotels, airlines, and travel agencies.





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Hiroshi Nakagawa, MD, PhD Cleveland Clinic Cleveland, OH	Kalyanam Shivkumar, MD, PhD UCLA Cardiac Arrhythmia Center Los Angeles, CA	Katja Zeppenfeld, MD, PhD University of Leiden Leiden, Netherlands

AGENDA | FRIDAY, OCTOBER 13, 2023

All times are Eastern Daylight Time (EDT)

6:45 – 7:20 AM Registration and Breakfast

7:20 – 7:30 AM
Welcome/Introductions/Opening Remarks
Francis Marchlinski, MD

SESSION I
Sudden Cardiac Death Risk Assessment
Moderators: Larry Chinitz, MD and
Kalyanam Shivkumar, MD, PhD

7:30 – 7:40 AM
12 lead ECG: Targeting the Base of SCD
Iceberg with a Little Help from AI
Samuel Asirvatham, MD

7:40 – 7:50 AM
Sudden Cardiac Death and Cardiac Proteomics
Rajat Deo, MD

7:50 – 8:00 AM
Polygenic Risk Scores as Risk Stratification Tools
Christine Albert, MD, MPH

8:00 – 8:10 AM
How to Assess Arrhythmia Risk in Patients with MVP
Marc Miller, MD

8:10 – 8:20 AM
Prediction of SCD in HCM
Natalia Trayanova, PhD, MS

8:20 – 8:30 AM
Biomarkers for Sudden Death Risk Assessment
Marmar Vaseghi, MD, PhD

8:30 – 8:50 AM
Panel Discussion with Q&A Session

SESSION II
Rapid Fire: New Trials/Registry Updates
(7 minute presentations)
Moderators: Francis Marchlinski, MD and
Vivek Reddy, MD

8:50 – 8:57 AM
IVTCC 3.0 Update (VT Ablation Registry)
Jason Bradfield, MD

8:57 – 9:04 AM
LESS VT in NICM
(ENDO-EPI VT Ablation Approval of Tacticath)
Harikrishna Tandri, MBBS, MD

9:04 – 9:11 AM
SMART DEF Trial
(RCT – Post MI MRI Based ICD Implantation)
Christian de Chilliou, MD, PhD

9:11 – 9:18 AM
RADIATE VT
(SBRT After Catheter Ablation Failure)
Phillip Cuculich, MD

9:18 – 9:25 AM
VELVET Trial (Venous Alcohol Ablation)
Miguel Valderrábano, MD

9:25 – 9:32 AM
STALL-VT
(RCT-Transcutaneous Neuro Stimulation in VT Storm)
Timothy Markman, MD

9:32 – 9:39 AM
PIVATAL Trial
(Prophylactic VT Ablation at Time of LVAD Implant)
Joshua Moss, MD

9:39 – 9:49 AM
Commentary (10 minutes):
Are We on the Right Track with Our Studies?
Karl-Heinz Kuck, MD

9:49 – 10:10 AM Coffee Break
(To Discuss Trials and Visit Exhibits)

SESSION III
Novel Substrate Mapping/Ablation Techniques
Moderators: Andre d’Avila, MD, PhD and
William Sauer, MD

10:10 – 10:20 AM
VT and Repolarization Heterogeneity
Within the Infarct Scar
Kevin Donahue, MD

10:20 – 10:30 AM
Frequency Analysis of Endocardial EgMs
to Detect Intramural Fibrosis
Usha Tedrow, MD, MS

10:30 – 10:40 AM
Characterization of VT Exit Sites: New Insights
Roderick Tung, MD

10:40 – 10:50 AM
How to Evaluate the Full Substrate in VT Ablation:
The Role of S2-S3 Maps
Ivo Roca, MD

10:50 – 11:00 AM
Endocardial and Epicardial Ablation in
All Post MI VT patients?
Andrea Natale, MD

11:00 – 11:20 AM
Panel Discussion with Q&A Session

11:20 – 11:30 AM Pick up Box Lunch

SESSION IV
LIVE CASES 1 with Working Lunch
11:30 AM – 1:30 PM
Live cases from the Hospital of the
University of Pennsylvania
Moderator: Francis Marchlinski, MD
Site Moderator: David Callans, MD

Panel: Srinivas Dukkkipati, MD, Karl-Heinz Kuck, MD,
John Miller, MD, Roderick Tung, MD, Wendy Tzou, MD
and William Whang, MD

EP Lab 1 – Ramanan Kumareswaran, MD,
Robert Schaller, DO and Gregory Supple, MD
EP Lab 2 – Fermin Garcia, MD, Gustavo Guandalini, MD
and David Lin, MD
EP Lab 3- David Frankel, MD, Matthew Hyman, MD, PhD
and Michael Riley, MD, PhD

SESSION V

Radiotherapy for VT

Moderators: Mohit Turagam, MD and Wendy Tzou, MD

1:30 – 1:40 PM

Impact of Cardiac SBRT on Infarcted Myocardium

Cory Tschabrunn, PhD

1:40 – 1:50 PM

Mechanism of Effect of Proton Beam Therapy

Douglas Packer, MD

1:50 – 2:00 PM

Efficacy and Safety of SBRT

Josef Kautzner, MD, PhD

2:00 – 2:10 PM

Optimizing SBRT Targeting –

Best EP Data + Radiation Delivery: Lessons Learned

Phillip Cuculich, MD

2:10 – 2:30 PM

Panel Discussion with Q&A Session

2:30 – 2:55 PM

Coffee Break

SESSION VI

Device Therapy

Moderators: Jeanne Poole, MD and Andrew Epstein, MD

2:55 – 3:05 PM

cMR Imaging of Conduction System Pacing

Kenneth Ellenbogen, MD

3:05 – 3:15 PM

Left Bundle Branch Area Pacing or Biventricular Pacing for CRT?

Pugazhendhi Vijayaraman, MD

3:15 – 3:25 PM

Subcutaneous and Extravascular ICDs: the Future of ICD Therapy?

Michael Gold, MD, PhD

3:25 – 3:35 PM

Wearable Then Implantable

Cardioverter Defibrillator Post MI

Christian de Chillou, MD, PhD

3:35 – 3:45 PM

Cardiac Contractility Modulation: Versus or with Drug Therapy?

Vivek Reddy, MD

3:45 – 3:55 PM

Optimizing SQ ICD Implantation: Important Considerations

Robert Schaller, DO

3:55 – 4:15 PM

Panel Discussion with Q&A Session

SESSION VII

Pulsed Field Ablation

Moderators: Srinivas Dukkipati, MD and Pasquale Santangeli, MD, PhD

4:15 – 4:25 PM

Biophysics of PFA in Scarred Myocardium

David Haines, MD

4:25 – 4:35 PM

How to Ensure Durable PFA Lesions

Hiroshi Nakagawa, MD, PhD

4:35 – 4:45 PM

Ventricular PFA: Benefits and Challenges

Jacob Koruth, MD

4:45 – 4:55 PM

Important Observations During PFA Application in the Ventricle

Atul Verma, MD

4:55– 5:05 PM

PFA Effect on Coronaries:

Deep Dive Into Pathophysiology and Prevention

Edward Gerstenfeld, MD, MS

5:05 – 5:15 PM

Initial Clinical Experiences for VT Ablation

Thomas Deneke, MD

5:15 – 5:40 PM

Panel Discussion with Q&A Session

SESSION VIII

Prerecorded Cases Highlighting

New Concepts/Techniques

(12 minute presentations/3-minute Q+A)

Moderators: David Callans, MD and Francis Marchlinski, MD

5:40 – 5:55 PM

LV Endocardial Access with Double Mechanical Valves

Pasquale Santangeli, MD, PhD

5:55 – 6:10 PM

CO2 Insufflation for Epicardial Access

Gregory Supple, MD

6:10 – 6:25 PM

Large Footprint Multielectrode Ablation: RF vs PFA

Elad Anter, MD

6:25 – 6:30 PM

1st Day Wrap up

Francis Marchlinski, MD

6:30 – 7:30 PM

Welcome Reception – All Attendees

AGENDA | SATURDAY, OCTOBER 14, 2023

All times are Eastern Daylight Time (EDT)

6:45 – 7:25 AM Breakfast

7:25 – 7:30 AM
Welcome – Day 2
David Callans, MD

SESSION IX
Imaging

Moderators: Andre d’Avila, MD, PhD and
Timm Dickfeld, MD, PhD

7:30 – 7:40 AM
Optimal CT and MR Image Integration for VT Ablation
Saman Nazarian, MD, PhD

7:40 – 7:50 AM
Substrate Imaging and Risk of
Acute Hemodynamic Decompensation
Jeffery Winterfeld, MD

7:50 – 8:00 AM
Is Imaging Better Than Mapping
for Substrate Assessment?
Andre d’Avila, MD, PhD

8:00 – 8:10 AM
InEurHeart Trial
Pierre Jaïs, MD

8:10 – 8:30 AM
Panel Discussion with Q&A Session

SESSION X
PVCs

Moderators: David Callans, MD and Roderick Tung, MD

8:30 – 8:40 AM
Mechanisms of Initiation and Propagation of PVCs
Kalyanam Shivkumar, MD, PhD

8:40 – 8:50 AM
IC AADs for PVC Related Cardiomyopathy
David Frankel, MD

8:50 – 9:00 AM
Venous Mapping for Intramural Arrhythmias
Fermin Garcia, MD

9:00 – 9:10 AM
Mapping and Ablation of Papillary Muscle PVCs
Frank Bogun, MD

9:10 – 9:20 AM
MRI if PVCs:
Which Patients/What Defines Increased Risk?
Daniele Muser, MD

9:20 – 9:40 AM
Panel Discussion with Q&A Session

9:40 – 9:55 AM Coffee Break

SESSION XI
Annual Mark E. Josephson Memorial Lecture
Moderators: David Callans, MD and
Francis Marchlinski, MD
Introduction

9:55 – 10:15 AM
Inherited Arrhythmias:
Approaching the Frontier of Molecular Therapies
Silvia Priori, MD, PhD

10:15 – 10:20 AM Q&A Session

SESSION XII
Ablation of Ventricular Fibrillation
Moderators: Gerhard Hindricks, MD and
Francis Marchlinski, MD

10:20 – 10:30 AM
Why are Purkinje Cells Arrhythmogenic?
Samuel Asirvatham, MD

10:30 – 10:40 AM
Pharmacologic Provocation of VF Triggers:
New Insights
Frédéric Sacher, MD, PhD

10:40 – 10:50 AM
Spectrum of Purkinje Involvement in Idiopathic VF
Mélèze Hocini, MD

10:50 – 11:00 AM
Long-term Outcomes of Brugada Substrate Ablation
Koonlawee Nadamane, MD

11:00 – 11:10 AM
Mid-term Results of Ablation for VF
in Long QT Syndrome
Carlo Pappone, MD, PhD

11:10 – 11:30 AM
Panel Discussion with Q&A Session

11:30 – 11:35 AM Pick Up Lunch

SESSION XIII
LIVE CASES 2 with Working Lunch

11:35 AM – 1:35 PM
Moderator: Vivek Reddy, MD

Panel: Elad Anter, MD, Paulo Della Bella, MD,
Luigi Di Biase, MD, PhD, Pierre Jaïs, MD,
Josef Kautzner, MD, PhD and Usha Tedrow, MD, MS

Live Case Operators: Srinivas Dukkupati, MD,
Jacob Koruth, MD, Marc Miller, MD,
Daniel Musikantow, MD, Mohit Turagam, MD and
William Whang, MD

SESSION XIV

Mark E. Josephson Abstract Competition & VT Innovation Award

Moderators: David Callans, MD, Andre d’Avila, MD, PhD, Francis Marchlinski, MD, Vivek Reddy, MD and Wendy Tzou, MD (Guest Judge)

Abstract Presentations from the 2 Finalists

1:35 – 1:47 PM **Presentation 1**
1:47 – 1:59 PM **Presentation 2**

1:59 – 2:05 PM
Judges Review and VT Innovation Award Presented for the Best Abstract

2:05 – 2:15 PM
Break and Visit Exhibits

SESSION XV

More Trials/Some Important Lessons Learned

Moderators: Vivek Reddy, MD and William Stevenson, MD

2:15 – 2:25 PM
Does Initial ATP/Shock Episodes Signal Heart Failure Progression?
Paolo Della Bella, MD

2:25 – 2:35 PM
Temporal Relationship Between VT and Mortality
John Sapp, MD

2:35 – 2:45 PM
Why Genetic Testing is Important for Ablation Planning (and Beyond)
Katja Zeppenfeld, MD, PhD

2:45 – 2:55 PM
Novel Therapies/Trials for Genetic Cardiomyopathy
Anjali Owens, MD

2:55 – 3:15 PM
Panel Discussion with Q&A Session

SESSION XVI

More Trials/Some Important Lessons Learned

Moderators: Francis Marchlinski, MD and Katja Zeppenfeld, MD, PhD

3:15 – 3:25 PM
What I Learned From all the Effort put Into PROFID?
Gerhard Hindricks, MD

3:25 – 3:35 PM
Impact of Anesthesia on Ablation Outcomes
Wendy Tzou, MD

3:35 – 3:45 PM
ICD Electrograms to Guide Ablation – AIDEG-VTA Study
Jesus Almendral, MD, PhD

3:45 – 3:55 PM
Have the Trials Shown That Early VT Ablation Improves Outcome?
David Callans, MD

3:55 – 4:05 PM
His Bundle Recordings During TAVR Implant: Important Lessons Learned
Alfred Buxton, MD

4:05 – 4:20 PM
Panel Discussion with Q&A Session

SESSION XVII

Novel VA Ablation/Mapping Techniques

Moderators: Andre d’Avila, MD, PhD and David Callans, MD

4:20 – 4:30 PM
Prolonged Duration RF Ablation for Intramural Arrhythmias
Sanjay Dixit, MD

4:30 – 4:40 PM
Overcoming Ablation Challenges Posed by Infiltrative Scar
William Sauer, MD

4:40 – 4:50 PM
Multi-vein, Multi-balloon Alcohol Substrate Ablation
Miguel Valderrábano, MD, PhD

4:50 – 5:00 PM
Needle Ablation: New Concepts and Considerations
William Stevenson, MD

5:00 – 5:10 PM
CryoCure VT study
Vivek Reddy, MD

5:10 – 5:20 PM
Epicardial Access: The Safer Study
Jorge Romero, MD

5:20 – 5:40 PM
Panel Discussion with Q&A Session

5:40 – 5:45 PM
Closing Comments
(Invitation to VT Symposium 2024)
Francis Marchlinski, MD

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Pathophysiology & Therapy

Friday & Saturday, October 13-14, 2023

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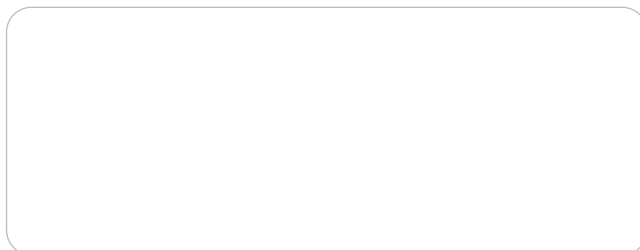
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