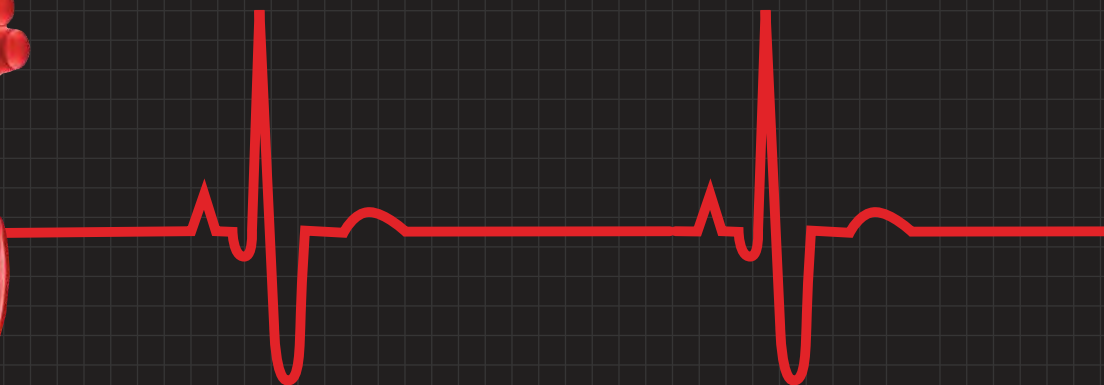
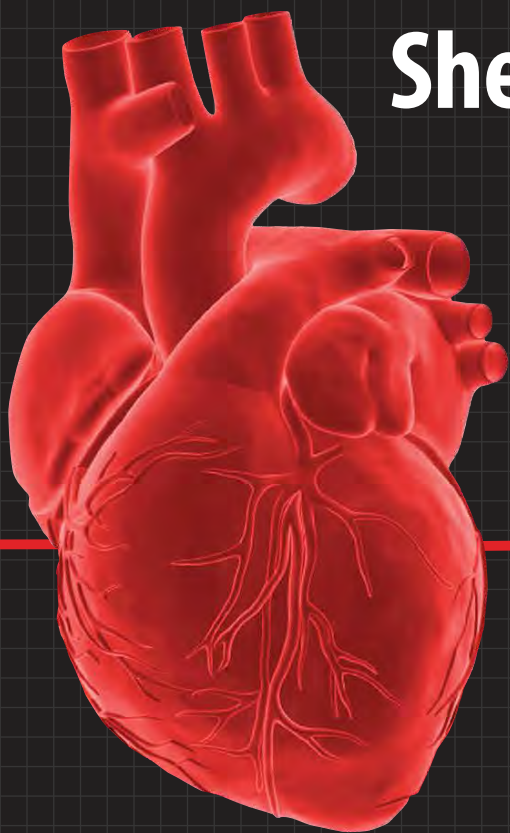


# KANSAS CITY HEART RHYTHM SYMPOSIUM 2024

Sheraton Overland Park Hotel

August 17-18, 2024



Course Director:

Dhanunjaya Lakkireddy, MD, FACC, FHRS

Kansas City Heart Rhythm Institute, Overland Park, KS

Free CME/CE Credit

Co-Sponsored by:



[www.kchrs.com](http://www.kchrs.com)



# KANSAS CITY HEART RHYTHM SYMPOSIUM 2024

August 17-18, 2024 | Sheraton Overland Park Hotel | [www.kchrs.com](http://www.kchrs.com)

## CONFERENCE OVERVIEW

The Kansas City Heart Rhythm Symposium is an electrophysiology-focused medical education event for the neighboring four state regions. A variety of topics will provide specialists and generalists an update on the evolution of disease processes, diagnostic tools, therapeutic strategies and ethical issues in the advancement of patient care.

The purpose of this symposium is to update medical practitioners in the greater Midwest region as well as nationally on the future of cardiac electrophysiology (EP), and on new diagnosis and treatment guidelines in the care and management of patients with arrhythmias, heart failure and other issues impacting the electrical system of the body. Participants will learn about advances in ablation techniques, device management, appropriate use criteria, and survey new developments in guidelines and recommendations. A review of clinical trials that have helped change the clinical practice of EP will also be held. Participants in this symposium will examine the latest trends in Left Atrial Appendage (LAA) treatment options and gain a greater understanding of anticoagulation and stroke prophylaxis.

This activity is designed for physicians, advanced practice nurses, registered nurses and allied health professionals in the fields of electrophysiology, interventional cardiology, interventional radiology, and vascular surgery.

## LEARNING OBJECTIVES

Upon completion of this activity, learners will be able to:

- Discuss types of devices used for monitoring and treating arrhythmias.
- Demonstrate the use of imaging techniques to improve procedural outcomes.
- Apply guideline-endorsed, clinically applicable strategies to help resolve device-related issues.
- Summarize clinical trial results that can be applied to improving the safety and efficacy of electrophysiology (EP) procedures.
- Explain anticoagulation treatment and stroke prophylaxis options for cardiac patients.
- Examine clinical evidence for the latest trends in LAA treatments.

## CME/CE INFORMATION – PHYSICIANS AND NURSES

### ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the Academy for Continued Healthcare Learning (ACHL) and the Kansas City Heart Rhythm Symposium (KCHRS). ACHL is accredited by the ACCME to provide continuing medical education for physicians.

### CREDIT DESIGNATION

The Academy for Continued Healthcare Learning designates this live activity for a maximum of **12.5 AMA PRA Category 1 Credit(s)**<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Provider approved by the California Board of Registered Nursing, Provider Number 17273 for 12.5 contact hours.

Physician assistants, nurse practitioners, and nurses may participate in this educational activity and earn a certificate of completion as AAPA, AANP, and ANCC accept **AMA PRA Category 1 Credits**<sup>™</sup> through their reciprocity agreements.

### DISCLOSURES

The Academy for Continued Healthcare Learning (ACHL) requires that the faculty participating in an accredited continuing education activity disclose all affiliations or other financial relationships within 24 months (1) with the manufacturers of any commercial product(s) and/or provider(s) of commercial services discussed in an educational presentation and (2) with any ineligible companies. All relevant financial relationships have been mitigated prior to this activity.

### DISCLAIMER

The content for this activity was developed independently of any ineligible company. All materials are included with permission. The opinions expressed are those of the faculty and are not to be construed as those of the publisher or grantor(s).

This educational activity was planned and produced in accordance with the ACCME Standards for Integrity and Independence in Accredited Continuing Education. Recommendations involving clinical medicine in a continuing medical education (CME/CE) activity must be based on evidence that is accepted within the profession of medicine as adequate justification for their indications and contraindications in the care of patients. All scientific research referred to, reported, or used in CME/CE in support or justification of a patient care recommendation must conform to the generally accepted standards of experimental design, data collection, and analysis.

This CME/CE activity might describe the off-label, investigational, or experimental use of medications and/or devices that may exceed their FDA-approved labeling. Physicians should consult the current manufacturers' prescribing information for these products. ACHL requires the speaker to disclose that a product is not labeled for the use under discussion.ional activity.

Provided by the Academy for Continued Healthcare Learning (ACHL) in partnership with the Kansas City Heart Rhythm Symposium.



# KANSAS CITY HEART RHYTHM SYMPOSIUM 2024

August 17-18, 2024 | Sheraton Overland Park Hotel | [www.kchrs.com](http://www.kchrs.com)

## 2024 PIONEER IN ELECTROPHYSIOLOGY AWARD RECIPIENT AND KEYNOTE SPEAKER



**Michael R. Gold, MD, PhD**  
MUSC Health - University Medical Center  
Charleston, SC

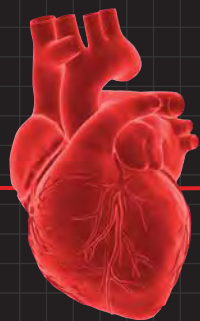
A native of New York, Dr. Michael R. Gold graduated from SUNY at Stony Brook in 1975. He received his medical degree from the University of Colorado in 1985 and his PhD degree from the University of Virginia in 1979. He completed his residency and cardiology fellowship at Massachusetts General Hospital in 1991.

Immediately thereafter, Dr. Gold joined the faculty of University of Maryland where he was the director of the cardiac electrophysiology service and assistant professor of medicine and physiology. In 2001, he became professor of medicine in the Department of Medicine.

From 2002 to 2015, Dr. Michael R. Gold was the chief of cardiology, Michael E. Assey professor of medicine and medical director of the Heart and Vascular Center at the Medical University of South Carolina in Charleston, South Carolina.

Dr. Gold is the author of over 250 publications. He is board certified by the American Board of Internal Medicine, in cardiovascular disease and clinical cardiac electrophysiology.

His special interests include electrophysiology, adult cardiology and arrhythmias and he is a pioneer in the development of new defibrillation techniques and pacing for congestive heart failure.



# KANSAS CITY HEART RHYTHM SYMPOSIUM 2024

August 17-18, 2024 | Sheraton Overland Park Hotel | [www.kchrs.com](http://www.kchrs.com)

## FACULTY

**Dr. Rizwan Afzal**  
Ohio State University  
Columbus, OH

**Dr. Amin Al-Ahmad**  
Texas Cardiac Arrhythmia Institute  
Austin, TX

**Dr. Sana Al-Khatib**  
Duke Health  
Durham, NC

**Mrs. Patricia Blake**  
Heart Rhythm Society  
Washington, DC

**Dr. Jared Bunch**  
University of Utah Hospital  
Salt Lake City, UT

**Dr. Jie Cheng**  
Texas Heart Institute  
Houston, TX

**Dr. Mina Chung**  
Cleveland Clinic  
Cleveland, OH

**Dr. Douglas Darden**  
Kansas City Heart Rhythm Institute  
Overland Park, KS

**Dr. Thomas Deering**  
Piedmont Heart Institute  
Atlanta, GA

**Dr. Luigi Di Biase**  
Montefiore Medical Center  
Bronx, NY

**Dr. Kenneth Ellenbogen**  
VCU  
Henrico, VA

**Dr. Christopher Ellis**  
Vanderbilt University Medical Center  
Nashville, TN

**Dr. Jalaj Garg**  
Loma Linda University Medical School  
Loma Linda, CA

**Dr. Michael Gold**  
Medical University of South Carolina  
Charleston, SC

**Dr. Nora Goldschlager**  
University of California, San Francisco  
San Francisco, CA

**Dr. Rakesh Gopinathannair**  
Overland Park, KS

**Dr. Henry Huang**  
Rush University Medical Center  
Chicago, IL

**Dr. Jodie Hurwitz**  
Medical City Heart Hospital  
Dallas, TX

**Ms. Courtney Jeffery**  
Kansas City Heart Rhythm Institute  
Overland Park, KS

**Dr. Rajesh Kabra**  
Kansas City Heart Rhythm Institute  
Overland Park, KS

**Dr. Bradley Knight**  
Northwestern University  
Chicago, IL

**Dr. Scott Koerber**  
Kansas City Heart Rhythm Institute  
Overland Park, KS

**Dr. Anne Kroman**  
Medical University of South Carolina  
Charleston, SC

**Dr. Dhanunjaya Lakkireddy**  
Kansas City Heart Rhythm Institute  
Overland Park, KS

**Dr. Miguel Leal**  
Cleveland Clinic  
Cleveland, CA

**Dr. S. Chris Malaisrie**  
Northwestern University  
Chicago, IL

**Dr. Moussa Mansour**  
Massachusetts General Hospital  
Boston, MA

**Dr. Nassir Marrouche**  
Tulane University School of Medicine  
New Orleans, LA

**Dr. Suneet Mittal**  
Valley Health System  
Paramus, NY

**Dr. Daniel Morin**  
Ochsner Clinic Foundation  
New Orleans, CA

**Dr. Devi Nair**  
St. Bernards  
Jonesboro, AR

**Dr. Andrea Natale**  
Texas Cardiac Arrhythmia Institute  
Austin, TX

**Dr. Brian Olshansky**  
University of Iowa Health Care  
Iowa City, IA

**Dr. Douglas Packer**  
Intermountain Medical Center  
Highland, UT

**Dr. Rod Passman**  
Northwestern University  
Chicago, IL

**Dr. Jayasree Pillarisetti**  
Cardiology Clinic of San Antonio  
San Antonio, TX

**Dr. Krishna Pothineni**  
Kansas City Heart Rhythm Institute  
Overland Park, KS

**Dr. Andrea Russo**  
Cooper University Health Care  
Voorhees, NJ

**Dr. Sanjeev Saksena**  
RWJ Barnabas Health  
Warren, NJ

**Dr. Prashanthan Sanders**  
Royal Adelaide Hospital  
Adelaide, Australia

**Dr. Robert Schaller**  
Hospital of the University of Pennsylvania  
Gladwyne, PA

**Dr. Win Kuang Shen**  
Mayo Clinic Arizona  
Phoenix, AZ

**Dr. Stephen Shorofsky**  
University of MD, School of Medicine  
Owings Mills, MD

**Dr. Harikrishna Tandri**  
Vanderbilt University Medical Center  
Nashville, TN

**Dr. Venkat Tholakanahalli**  
University of MN, VA Medical Center  
Minneapolis, MN

**Dr. Oussama Wazni**  
Cleveland Clinic Foundation  
Cleveland, OH

**Dr. Jeffrey Winterfield**  
Medical University of South Carolina  
Charleston, SC



# KANSAS CITY HEART RHYTHM SYMPOSIUM 2024

August 17-18, 2024 | Sheraton Overland Park Hotel | [www.kchrs.com](http://www.kchrs.com)

## COURSE PROGRAM

### SATURDAY, AUGUST 17, 2024 (ALL CENTRAL DAYLIGHT TIME)

0755-0800 **Opening Remarks** – Dr. Dhanunjaya Lakkireddy

**Session 1: Exploring the Post COVID Electrophysiologic Disorders – Living the Fallout** – Moderators: Dr. Rakesh Gopinathannair and Dr. Devi Nair

0800-0810 Heart Rhythm Society – Front and Center of Advocacy, Education and Self Reliance – Dr. Kenneth Ellenbogen

0810-0820 State of the State of Cardiovascular Dysautonomias, Long COVID and Exploring the Viral Connection – Dr. Brian Olshansky

0820-0830 COVID-Related Cardiac Arrhythmias and Myocarditis – Diagnosis, Management, and Risk – Dr. Christopher Ellis

0830-0835 Case Based Learning – Dr. Rajesh Kabra

**Session 2: Thinking Outside the Box for Heart Failure, Defibrillation & Pacing** – Moderators: Dr. Steve Shorofsky and Dr. Henry Huang

0835-0845 Role of Cardiac Contractility and Vagal Nerve Stimulation in Managing Patients with Heart Failure – Dr. Rizwan Afzal

0845-0855 Subcutaneous and Substernal ICDs – Current Status – Dr. Robert Schaller

0855-0905 Where Do We Stand with Leadless Pacing – Single, Dual and CRT Systems – Dr. Bradley Knight

0905-0915 Advances in Physiologic Pacing – State of the State in 2024 – Dr. Win Kuang Shen

0915-0925 Cardiac Contractility Modulation & Vagal Stimulation in HF – Evidence for Widespread Clinical Adaptation – Dr. Anne Kroman

0925-0935 Novel Hemodynamic Sensing in ICDs – Dr. Jie Cheng

0935-0950 **Panel Discussion**

**Session 3: EP Pioneer Award** – Moderators: Dr. Dhanunjaya Lakkireddy, Dr. Sanjeev Saksena and Dr. Scott Koerber

0950-0955 Award Recitation – Dr. Douglas Packer

0955-1015 Pioneer in Cardiovascular Electrophysiology – Dr. Michael Gold

1015-1025 **Panel Discussion**

1025-1040 **Break**

**Session 4: Managing Oral Anticoagulation in Non-Valvular AF** – Moderators: Dr. Rod Passman and Dr. Jodie Hurwitz

1040-1050 Pharmacological Stroke Prophylaxis in AF Journey Through the Last 5 Decades – Dr. Mina Chung

1050-1100 Settling the Debate – Choosing DOACs – Dr. Andrea Russo

1100-1110 2023 Guidelines and OCA – Dr. Sana Al-Khatib

1110-1120 Emerging Evidence on Factor XI Inhibitors – Dr. Daniel Morin

1120-1125 Case Based Learning – Dr. Steve Shorofsky

1125-1145 **Panel Discussion**

**Session 5: Innovations in 3D Mapping and Imaging** – Moderators: Dr. Jalaj Garg and Dr. Douglas Darden

1145-1155 Non-Conventional Mapping for Improved Success of Arrhythmias Ablation – Volta, Vivo and More – Dr. Dhanunjaya Lakkireddy

1155-1205 Novel Mapping Methods for PFA Ablation – Dr. Andrea Natale

1205-1215 3D/4D Intracardiac Echocardiography in EP Procedures – Dr. Amin Al-Ahmad

1215-1300 **Lunch**



# KANSAS CITY HEART RHYTHM SYMPOSIUM 2024

August 17-18, 2024 | Sheraton Overland Park Hotel | [www.kchrs.com](http://www.kchrs.com)

## COURSE PROGRAM

### SATURDAY, AUGUST 17, 2024 (CONTINUED)

#### **Session 6: State of the State in Pulse Field Ablation in 2024** – Moderators: Dr. Sana Al-Al-Khatib and Dr. Prashanthan Sanders

- 1300-1310 Biophysics of PFA and Foundational Differences from RF and Cryo – Dr. Douglas Packer
- 1310-1320 Current Data on PFA for AF Therapy - Dr. Moussa Mansour
- 1320-1330 Novel Catheter Technologies in PFA – Dr. Andrea Natale
- 1330-1340 What it is That We Don't Know About PFA – Dr. Jared Bunch
- 1340-1350 PFA Impact on Health Economics – Dr. Thomas Deering
- 1350-1355 Case Based Learning – Dr. Luigi DiBiase
- 1355-1410 **Panel Discussion**

#### **Session 7: Improving the Efficacy of Ablation – Strategies to Move the Needle** – Moderators: Dr. Anne Kroman and Dr. Miguel Leal

- 1410-1420 Does LAA Electrical Isolation/Elimination Have an Adjudicative Role in Treatment of Non-Paroxysmal AF – Deep Dive Into the Amaze Data – Dr. Suneet Mittal
- 1420-1430 Identification and Modification of Left Atrial Scar as a Treatment Strategy in Advanced AF Patients – A Critical Appraisal – Dr. Nassir Marrouche
- 1430-1440 Hybrid Ablation – Who, When and How – Dr. S. Chris Malaisrie
- 1440-1450 Autonomic Modulation in AF Management – Dr. Prashanthan Sanders
- 1450-1500 Role of Catheter Ablation in Patients with AF and HF – Data Driven Management Strategies – Dr. Sanjeev Saxena
- 1500-1505 Case Based Learning – Dr. Henry Huang
- 1505-1515 **Panel Discussion**
- 1515-1530 **Break**

#### **Session 8: Lifestyle Medicine and Electrophysiology** – Moderators: Dr. Thomas Deering and Dr. Win Kuang Shen

- 1530-1540 Exercise and Mind Body Modulation in Arrhythmia Management – Dr. Jayashree Pillarisetti
- 1540-1550 Weight Loss in AF Management – Gastric Bypass and Semaglutide Phenomenon – Dr. Prash Sanders
- 1550-1600 Social Determinants of Health and Strategies for Improving Health Equity in Arrhythmia Care – Dr. Jodie Hurwitz
- 1600-1610 Managing Sleep Apnea & Heart Failure in Patients with Atrial Fibrillation – Dr. Rod Passman
- 1610-1615 Case Based Learning – Impact of Remote Sleep Apnea Therapy on AF Burden – Courtney Jeffery, NP
- 1615-1630 **Panel Discussion**

#### **Session 9: Practical Issues in Arrhythmia Management** – Moderators: Dr. Kenneth Ellenbogen and Dr. Rajesh Kabra

- 1630-1640 Advances in Pharmacotherapy of Arrhythmias – Novel Molecules & Methods – Dr. Bradley Knight
- 1640-1650 Practical Issues in Genetic Screening in the Practice of Clinical Electrophysiology – Dr. Mina Chung
- 1650-1700 Vascular Closure Devices for EP Procedures – Plugs, Sutures and Other Novel Compression Devices – Dr. Rajesh Kabra
- 1700-1720 **Debate:** Should Complex Procedures Be Done in the Outpatient Setting – **Pro:** Dr. Jodie Hurwitz / **Con:** Dr. Douglas Packer
- 1720-1730 What is New in Catheter Ablation – Updates From 2023 AF Guidelines – Dr. Miguel Leal
- 1730 **Adjourn**



# KANSAS CITY HEART RHYTHM SYMPOSIUM 2024

August 17-18, 2024 | Sheraton Overland Park Hotel | [www.kchrs.com](http://www.kchrs.com)

## COURSE PROGRAM

### SUNDAY, AUGUST 18, 2024

#### **Session 10: LAA and Stroke – Moderator:** Dr. Bradley Knight

- 0750-0800 Updates from HRS – Mrs. Pat Blake
- 0800-0810 Stroke Prophylaxis and LAA Epicardial and Endocardial Occluders – Where Are We Today – Dr. Moussa Mansour
- 0810-0820 Mitigating Intra-Procedural Complications During LAAO Procedures – Dr. Devi Nair
- 0820-0830 Practical Issues After LAAO (Peri-Device Leaks & Device Related Thrombus) and Management Strategies – Dr. Luigi Di Biase
- 0830-0840 Do you Still Need LAA Closure After AF Ablation – Who, When and How? – Dr. Oussama Wazni
- 0840-0850 Treatment of Subclinical Atrial Fibrillation in 2024 – Dr. Michael Gold
- 0850-0855 Case Based Learning – Dr. Jared Bunch
- 0855-0900 **Panel Discussion**

#### **Session 11: Digital Health & Innovations in Electrophysiology – Moderators:** Dr. Sanjeev Saksena and Dr. Mina Chung

- 0900-0920 Trail Blazer Award and Presentation – Dr. Nora Goldschlager
- 0920-0930 Managing AF Through Implantable Cardiac Monitors: Monitor AF and More – Dr. Sana Al-Khatib
- 0930-0940 Remote Cardiac Device Monitoring – For Effective Patient Management and Impact on Climate Change – Dr. Andrea Russo
- 0940-0950 Innovations in Wearable External Defibrillators – Dr. Kenneth Ellenbogen
- 0950-1000 **Panel Discussion**

1000-1010 **Break**

#### **Session 12: Managing Ventricular Arrhythmias – Moderators:** Dr. Henry Huang and Dr. Andrea Natale

- 1010-1020 What is the Most Practical Approach to Performing VT Ablation? – Dr. Venkat Tholakanahalli
- 1020-1030 Innovations in VT Ablation and Imaging – Dr. Jeffery Winterfield
- 1030-1040 “Finding Myocarditis” – Upstream Opportunity to Prevent Downstream Disasters – Dr. Dhanunjaya Lakkireddy
- 1040-1050 Tackling Difficult Anatomic Substrates in VT/PVC Ablation – ETOH, Bipolar Ablation and More – Dr. Hari Tandri
- 1050-1055 Case Based Learning – Dr. Krishna Pothineni
- 1055-1110 **Panel Discussion**

#### **Session 13: Electrophysiology Practice Concepts – Moderators:** Dr. Dan Morin and Dr. Robert Schaller

- 1110-1120 Sudden Cardiac Death and Societal Engagement – Dr. Douglas Darden
- 1120-1130 Maude Database – Lessons to the EP World – Dr. Jalaj Garg
- 1130-1140 Future of the Practice of EP – Opportunities and Challenges – Dr. Suneet Mittal
- 1140-1150 Advances in the Management of POTS & IST – Dr. Krishna Pothineni
- 1150-1200 Cardioneural Ablation or Pacing for VVS? – Dr. Rakesh Gopinathannair
- 1200-1205 Case Based Learning – Dr. Scott Koerber
- 1205-1225 **Panel Discussion**

1225-1230 **Adjourn**



# KANSAS CITY HEART RHYTHM SYMPOSIUM 2024

August 17-18, 2024 | Sheraton Overland Park Hotel | [www.kchrs.com](http://www.kchrs.com)

## ACKNOWLEDGEMENTS

### COMMERCIAL SUPPORTERS

This symposium is supported through educational grants from

Abbott  
Biosense Webster  
Boston Scientific  
Medtronic

### EXHIBITORS

We wish to acknowledge and sincerely thank the following organizations for exhibiting.

#### PLATINUM TIER

Abbott  
Biosense Webster  
Medtronic

#### PREMIERE TIER

AltaThera Pharmaceuticals  
AtriCure  
Boston Scientific  
Bristol Myers Squibb

Catheter Precision  
GE Health  
Haemonetics  
Kiniksa Pharmaceuticals

Octagos Health  
React DX  
Vektor Medical  
Volta Medical

#### OTHER

AME  
JAFIB-EP  
Kansas City Heart Rhythm Institute



# Locket

Suture Retention Device

A cost-effective solution for access site closure, ensuring efficient hemostasis while prioritizing patient comfort.



Allows for Same Day Hospital Discharge



Close multiple adjacent access sites with one device



Suitable for a wide range of catheter sizes up to 27F



Patient Comfort



Cost Effective



100% Immediate Hemostasis

# Introducing Mac-Lab | CardioLab BT22



## Introducing a wing-to-wing digitized experience. Accelerating workflows. Elevating outcomes.

### Prucka 3 Digital Amplifier, introduces a fully a digital platform

- 10X reduction in environmental noise with improved CMRR = 120dB
- Visualize the smallest signals with 4uV smallest resolvable signal
- Maintain high signal fidelity with minimized noise across all acquisition modes
- Prepare for future innovation with maximum signal resolution, increased sampling rate, and increased processing power

### ClearView, an enhanced user experience

- Independently display dual Real time for enhanced clinical visualization
- A new machine learning algorithm provides Cycle Length on signal
- Tag morphology of interest and display in Multiple Review Windows
- Overlay morphology of interest through ClearMatch with percent match
- Simplify cath workflow through Integrated DFR™

### DirectConnect, a tighter connection with CVIS and EMR

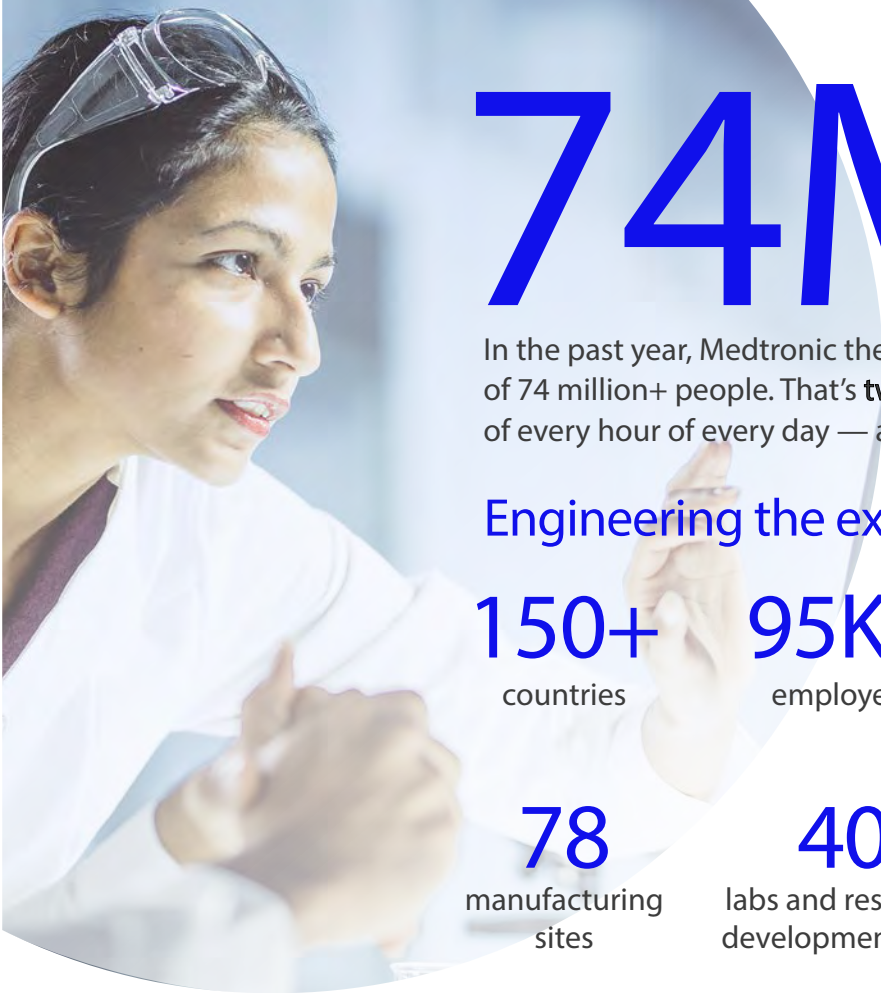
- Support of enhanced HL7 v7.1 and introduction of MLLP
- Configurable modality and increased search criteria through Search Schedule updates
- Automatic or manual population of total dose (mGy)
- Minimize keyboard and mouse needs with Workspace Integrator
- Procedure report export in .pdf or Word formats

### DirectAssist, applications to increase documentation and help improve workflow

- Real time lab status available on demand with DirectSight
- 'Snap' a photo and include in the procedure report with DirectSnap

**Security**, an in depth strategy that incorporates Windows® 10 hardening , Microsoft® Security Baselines, increased options for support of Antivirus solutions, data encryption, and enhanced user tracking to ensure maximum protection, keep your network safe and your data private.





# 74M+

In the past year, Medtronic therapies improved the lives of 74 million+ people. That's **two people every second** of every hour of every day — and counting.

## Engineering the extraordinary

**150+**  
countries

**95K+**  
employees

**214**  
active clinical trials  
last year

**\$2.7B**  
in R&D investments  
last year

**78**  
manufacturing  
sites

**40**  
labs and research  
development sites

**12.4K+**  
scientists  
and engineers

**46K+**  
active  
patent matters

## Our dedication to transforming lives starts here

**Better  
outcomes for  
our world**

**Life-  
transforming  
technologies**

**Experiences  
that put  
people first**

**Insight-driven  
care**

### Beyond products: Integrated health solutions (IHS)

We partner with hospital management and medical leaders to transform care pathways and clinical operations, with a shared goal of:

- Improving efficiency and outcomes
- Increasing patient and staff satisfaction
- Optimizing cost

With our extensive experience across and within regions, we provide proven and highly effective solutions that can be quickly tailored to providers' specific needs and generate value now — and for the future.

In 2023, IHS celebrates a decade of transforming healthcare, delivering value for patients and healthcare professionals, and improving access to high-quality care while optimizing costs and capacity.

**Medtronic**  
Engineering the extraordinary

### Positive impact on complex and challenging conditions

**70+**  
**conditions** in the human body  
treated with our therapies

**2**  
**people every second** have their  
lives improved — and counting

### Public-private partnerships

Increasing patient access in multiple communities aligns with the core of our Mission. These public private partnerships — with outcome-oriented business models — create mutual benefits by making the most of Medtronic skills, expertise, and assets through the appropriate transfer of risk. They drive our globalization strategy and actively contribute to the international push for universal health coverage. With jointly defined objectives, they address health system challenges efficiently by increasing access to therapy innovation, raising quality, and delivering improved outcomes.

Learn more at [Medtronic.com](https://www.Medtronic.com)

©2023 Medtronic. Medtronic, Medtronic logo, and Engineering the extraordinary are trademarks of Medtronic. All other brands are trademarks of a Medtronic company. UC202206905b EN

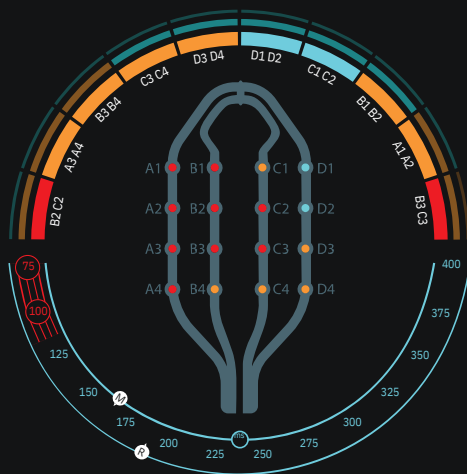


# VOLTA

MEDICAL

TRANSFORMING EP DATA INTO AI SOLUTIONS

Volta Medical is a **data-inspired, AI solutions EP company** whose mission is to aid in the assessment of **complex arrhythmia pathologies**.



ELECTROGRAMS

MAPPING  
HD GRID

ABLATION

END PROCEDURE

BOOSTER  
START

BOOSTER OFF



# VOLTA

AF-Xplorer™

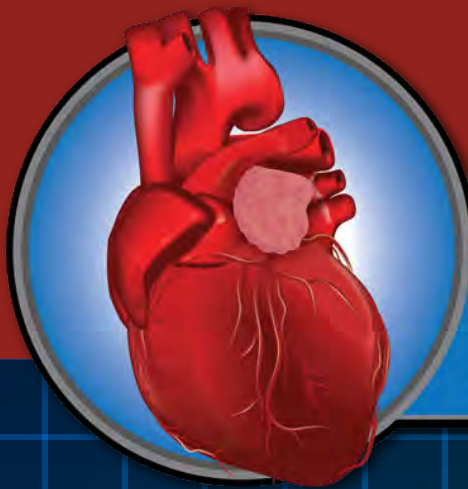
AI Companion Designed for the Assessment of  
Complex AF & AT During Ablation Procedure

[volta-medical.com](http://volta-medical.com)

[volta-medical](#)

[sales@volta-medical.com](mailto:sales@volta-medical.com)

CAUTION: Federal (United States) law restricts this device to sale by or on the order of a physician. See User Manual/Instructions for Use for full prescribing information, including indications, contraindications, warnings, precautions and adverse events. • TM Indicates a trademark of SUBSTRATE HD SAS. • ©2024 Volta Medical, Inc. All rights reserved. Reproduction or transmission of this document or part of this document in any format or by any means without written permission from Volta Medical is not authorized.



# ISLAA

International Symposium  
*on* Left Atrial Appendage

## 2025

13<sup>TH</sup> Annual

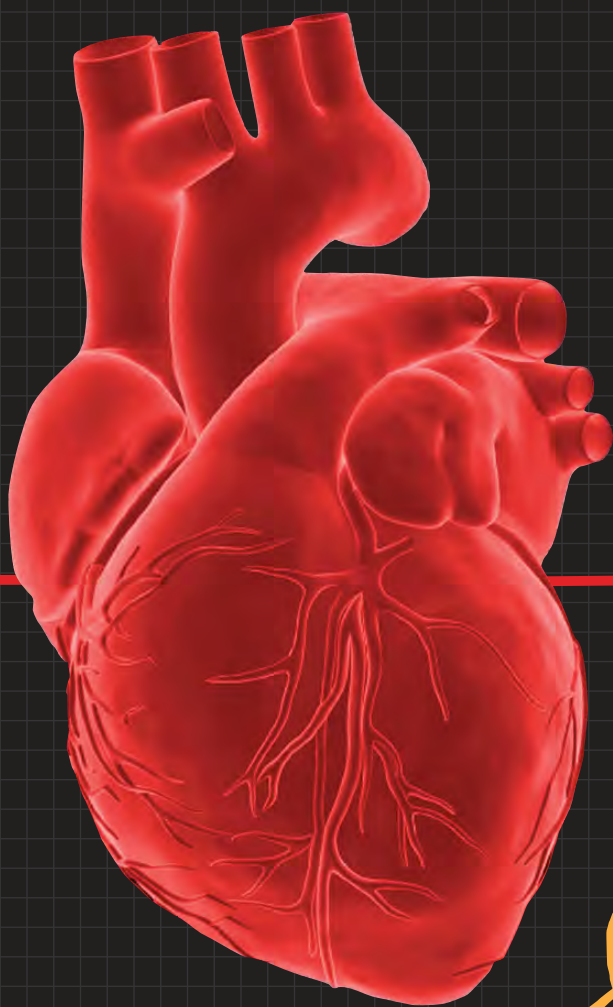
# International Symposium on Left Atrial Appendage

February 7-8, 2025

Austin, TX

[www.islaasymposium.com](http://www.islaasymposium.com)

# KANSAS CITY HEART RHYTHM SYMPOSIUM 2025



*Save the Date*

**August 16-17, 2025**

[www.kchrs.com](http://www.kchrs.com)