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Bluhm Cardiovascular Institute of Northwestern Memorial Hospital Northwestern University Feinberg School of Medicine Office of Continuing Medical Education AUGUST 26-27, 2022

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RADISSON BLU AQUA HOTEL CHICAGO

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CATHETER AND SURGICAL THERAPIES FOR ATRIAL FIBRILLATION CAST-AF

This conference has attracted an international community of leading interventional electrophysiologists and cardiac arrhythmia surgeons, to present the contemporary and most advanced techniques for both the catheter and surgical treatment of atrial fibrillation. In addition, current recommendations for the management of the left atrial appendage will be presented and debated and the results of new LAA occlusion devices will be discussed. The format for the conference consists of plenary lectures, plenary roundtables, and plenary debates on topics of controversy as well as extensive specialty interventional EP and surgical breakout sessions.

LEARNING OBJECTIVES

After this activity, participants will be able to:

- Discuss the electrophysiology of atrial fibrillation.
- Cite the newest concepts of atrial electrophysiology, including differences in endocardial and epicardial conduction patterns and how they can impact the interpretation of electrophysiologic mapping.
- Identify the advantages and limitations of activation-time mapping, voltage mapping, and phase mapping for the analysis of the electrophysiology of atrial fibrillation.
- Demonstrate improved outcomes for the catheter ablation of atrial fibrillation using the most advanced techniques.
- Demonstrate improved outcomes for the surgical ablation of atrial fibrillation using the most advanced techinques.
- Discuss the electrophysiological basis of catheter ablation for paroxysmal and nonparoxysmal atrial fibrillation.
- Cite the current indications for catheter ablation of atrial fibrillation in paroxysmal and non-paroxysmal atrial fibrillation.
- 8. Explain the current results of catheter and surgical ablation for paroxysmal and non-paroxysmal atrial fibrillation.

- Implement a safe and effective left atrial appendage closure program using current percutaneous and surgical techniques to reduce the risk of stroke in patients with atrial fibrillation.
- 10. Determine the limitations of the HRS definitions of success and failure for the interventional (catheter and surgical) treatment of atrial fibrillation.
- Examine the differences in the electrophysiology of primary ("stand-alone") and secondary ("concomitant") atrial fibrillation.
- 12. Discuss the electrophysiological basis of concomitant surgical ablation for atrial fibrillation in patients undergoing valve surgery with or without coronary artery disease.
- 13. Review the surgical options for the treatment of atrial fibrillation in patients undergoing mitral valve, aortic valve, and/or coronary artery bypass surgery.
- 14. Restate the currently recommended surgical lesion patterns for the concomitant surgical treatment of atrial fibrillation in patients undergoing mitral valve, aortic valve, and/or coronary artery bypass surgery based on recent clinical trial results.
- 15. Improve the outcomes of patients undergoing catheter and surgical therapies for atrial fibrillation using lifestyle modifications targeting obesity and other risk factors.

TARGET AUDIENCE

This CME program has been designed to meet the educational needs of Cardiologists, Electrophysiologists, Cardiac Surgeons, Internists, Cardiology Trainees, Cardiac Surgery Trainees, Physician Assistants, Nurse Practitioners, Nurses and any other health care professionals who participate in the care of atrial fibrillation.

VIRTUAL PLATFORM

Information regarding access to our virtual platform will be emailed to those who registered for this year's program.

CONFERENCE LOCATION

The program will be held at Radisson Blu Aqua Hotel, 221 N Columbus Dr. Chicago, IL 60601. Directions and parking information are available at https://www.radissonhotels.com/en-us/hotels/radisson-blu-chicago-aqua/meeting-events.

ACCREDITATION STATEMENT

The Northwestern University Feinberg School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

SPECIAL NEEDS

The Northwestern University Feinberg School of Medicine intends to comply fully with the legal requirements of the Americans with Disabilities Act. If any participant of this conference needs accommodation please indicate those needs on the registration form or submit written requests to cvconferences@northwestern.edu at least two weeks prior to the conference date.

CREDIT DESIGNATION STATEMENT

The Northwestern University Feinberg School of Medicine designates this live activity for a maximum of 11 *AMA PRA Category 1 Credit(s)*^{rm}. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

MOC POINTS

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 11 MOC points in the American Board of Internal Medicine's (ABIM) 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 ABIM MOC credit.

FACULTY DISCLOSURE

The Northwestern University Feinberg School of Medicine requires course directors, speakers, instructors, planners and other individuals who are able to control the content of this activity to disclose any relevant financial relationships. All identified potential conflicts of interest, scientific objectivity of studies mentioned in the materials or used as the basis for content, and appropriateness of patient care recommendations are thoroughly vetted by Northwestern University FSM for fair balance. The faculty disclosures will be indicated in the course syllabus.

ADDITIONAL INFORMATION

Contact the Bluhm Cardiovascular Institute by email: cvconferences@northwestern.edu.

FACULTY





James Cox, MD
Surgical Director
Center for Heart Rhythm Disorders
Director, Comprehensive Atrial
Fibrillation Program
Professor of Surgery
Bluhm Cardiovascular Institute
Feinberg School of Medicine
Northwestern University



Susan Kim, MDAssociate Professor of Medicine
Feinberg School of Medicine
Northwestern University



Bradley Knight, MD
Medical Director
Center for Heart Rhythm Disorders
Director, Comprehensive Atrial
Fibrillation Program
Chester C. and Deborah M.
Cooley Distinguished Professor
of Cardiology
Professor of Medicine
Feinberg School of Medicine
Northwestern University



Patrick McCarthy, MD

Executive Director

Bluhm Cardiovascular Institute

Vice President

Northwestern Medical Group

Chief, Division of Cardiac Surgery

Heller-Sacks Professor of Surgery

Feinberg School of Medicine

Northwestern University



Rod Passman, MD
Jules J. Reingold Professor
of Electrophysiology
Professor of Medicine and
Preventive Medicine
Feinberg School of Medicine
Northwestern University
Director, Bluhm Cardiovascular
Center for Atrial Fibrillation
Northwestern Memorial Hospital

FEINBERG SCHOOL OF MEDICINE FACULTY NORTHWESTERN UNIVERSITY

Faraz Ahmad, MD, MSAssistant Professor of Medicine

Jessica Charron, RN Electrophysiology Nurse Practitioner

Andrei Churyla, MD
Assistant Professor of Surgery

Igor Efimov, PhDProfessor of Biomedical
Engineering

Albert Lin, MDAssociate Professor of Medicine

Chris Malaisrie, MD Professor of Surgery

Christopher Mehta, MDAssistant Professor of Surgery

Anna Pfenniger, MD, PhDAssistant Professor of Medicine

Jane Wilcox, MD, MSc Chief, Section of Heart Failure Assistant Professor of Medicine

EXTERNAL FACULTY

Jason Andrade, MD

Director of Electrophysiology Vancouver General Hospital Vancouver, Canada

Vinay Badhwar, MD

Professor and Chief Division of Cardiac Surgery West Virginia University Morgantown, WV

Steve Bolling, MD

Professor of Surgery Division of Cardiac Surgery University of Michigan Ann Arbor, MI

Ralph Damiano, Jr., MD

Professor and Chief Division of Cardiothoracic Surgery Washington University School of Medicine St. Louis, MO

David DeLurgio, MD

Director of Electrophysiology Emory University School of Medicine Atlanta. GA

David Haines, MD

Director, Heart Rhythm Center William Beaumont School of Medicine Oakland University Royal Oak, MI

Rodney Horton, MD

Cardiac Electrophysiologist St. David's Medical Center Austin, TX

Saibal Kar, MD

Clinical Professor of Medicine UCLA Geffen School of Medicine Los Angeles, CA

Armin Kiankhooy, MD

Cardiac Surgeon Adventist Health – Saint Helena Napa, CA

Peter Kistler, PhD

Head of Electrophysiology Research Baker Heart and Diabetes Institute Melbourne, Australia

DJ Lakkireddy, MD

Medical Director Kansas City Heart Rhythm Institute Kansas City, MO

Kevin Makati, MD

Assistant Professor University of South Florida Rhythm Chairperson BayCare Health Systems Tampa, FL

Moussa Mansour, MD

Director, Atrial Fibrillation Associate Professor in Medicine Harvard Medical School Boston, MA

Nassir Marrouche, MD

Director of Electrophysiology Professor of Medicine Tulane University School of Medicine New Orleans, LA

Devi Nair, MD

Director of Electrophysiology St. Bernard's Healthcare Jonesboro. AR

Annabelle Santos Volgman, MD

Director of Rush Heart Center for Women Professor of Cardiology Rush University Medical Center Chicago, IL

Atul Verma, MD

Chief of Electrophysiology Professor of Medicine McGill University School of Medicine Montreal, Canada

Peter Weiss, MD

Cardiac Electrophysiologist Banner University Phoenix, AZ



AGENDA

AGENDA FRIDAY, AUGUST 26, 2022 11:45 am LUNCH Welcome/Opening Comments 1:00 pm Patrick McCarthy, MD **SESSION 1: FUNDAMENTALS OF ATRIAL FIBRILLATION** MODERATORS: Bradley Knight, MD lames Cox, MD Patrick McCarthy, MD The Pandemic of AF Bradley Knight, MD 1:15 pm **Basic Mechanisms of AF** Anna Pfenniger, MD, PhD 1:25 pm **AF and Heart Failure** lane Wilcox, MD, MSc 1:35 pm PANEL DISCUSSION MODERATOR: Patrick McCarthy, MD PANEL: Bradley Knight, MD

	Anna Pfenniger, MD Jane Wilcox, MD, MSc James Cox, MD
1:45 pm	A More Efficient Approach to Concomitant Ablation and LAA Closure Patrick McCarthy, MD
1:55 pm	Wearable AF Detection Susan Kim, MD

Patient-directed Anticoagulation

2:15 pm PANEL DISCUSSION
MODERATOR:
Bradley Knight, MD

Rod Passman, MD

PANEL: Patrick McCarthy, MD Susan Kim, MD Rod Passman, MD James Cox, MD

SESSION 2: LAA MANAGEMENT AND CONCOMITANT AF SURGERY			
	MODERATORS: Patrick McCarthy, MD Saibal Kar, MD Bradley Knight, MD		
2:30 pm	LAAOS III and LeAAPS Trials Patrick McCarthy, MD		
2:40 pm	Thoracoscopic LAA Closure		

2:40 pm Thoracoscopic LAA Closure Armin Kiankhooy, MD
 2:50 pm Transcatheter LAA Closure Saibal Kar, MD
 3:00 pm PANEL DISCUSSION MODERATOR: Steve Bolling, MD

Armin Kiankhooy, MD Saibal Kar, MD Bradley Knight, MD

3:15 pm Side-effects of Endocardial vs Epicardial LAAO DJ Lakkireddy, MD

3:25 pm Update on LAA Closure Clinical Trials Devi Nair, MD

3:35 pm Surgical and Catheter Approaches to LAA; Time for a Change Steve Bolling, MD

PANEL DISCUSSION MODERATOR: DJ Lakkireddy, MD

3:45 pm

4:00 pm

PANEL: Devi Nair, MD Steve Bolling, MD Bradley Knight, MD

BREAK & EXHIBITS

SESSION 3: EPS AND SURGEONS TOGETHER AGAIN

MODERATORS: Rod Passman, MD Anna Pfenniger, MD, PhD Steve Bolling, MD

4:30 pm Selection of Patients for Hybrid Procedure Ablation
David DeLurgio, MD

4:40 pm Results of Convergent Hybrid Imaging Before AF Ablation or 8:00 am Procedure for AF Surgery - CT, MR, TEE Armin Kiankhooy, MD Nassir Marrouche, MD Results of Other Hybrid 8:10 am Robotic Maze Procedure for Procedures for AF Atrial Fibrillation Andrei Churyla, MD Vinay Badhwar, MD 5:00 pm PANEL DISCUSSION 8:20 am **Optimal Imaging Systems for** MODERATOR: **Hybrid Procedures** Rod Passman, MD Kevin Makati, MD PANEL: 8:30 am Advances in Mapping Systems David DeLurgio, MD for AF Ablation Armin Kiankhooy, MD David Haines, MD Andrei Churyla, MD 8:40 am PANEL DISCUSSION Steve Bolling, MD MODERATOR: Anna Pfenniger, MD, PhD Nassir Marrouche, MD 5:15 pm Best Catheter Approach in PANEL: **Convergent Procedure** Vinay Badhwar, MD Kevin Makati, MD Kevin Makati, MD David Haines, MD 5:25 pm Aortic Stenosis and Atrial Fibrillation Chris Malaisrie, MD Rod Passman, MD Susan Kim, MD Managing Post-Procedure Peri-Mitral Flutter 8:55 am **Anticoagulation Around the Time of Ablation** Peter Kistler, MD Rod Passman, MD 5:45 pm PANEL DISCUSSION MODERATOR: Use of 4-D ICE to Guide 9:05 am Steve Bolling, MD **AF Procedures** Bradley Knight, MD

PANEL:
Kevin Makati, MD
Chris Malaisrie, MD
Peter Kistler, MD
Rod Passman, MD
Anna Pfenniger, MD, PhD
6:00 pm RECEPTION

SATURDAY AUGUST 27, 2022

7:00 am **BREAKFAST**

SESSION 4: IMAGING AND RISK MITIGATION

MODERATORS: Susan Kim, MD Rod Passman, MD Kevin Makati, MD 9:35 am Reducing the Complications of Surgical Ablation

David DeLurgio, MD

Reducing the Complications

of Catheter Ablation

of Hybrid Procedures

Susan Kim, MD

9:25 am Reducing the Complications

Chris Mehta, MD

PANEL DISCUSSION

MODERATOR:

Susan Kim, MD PANEL:

Bradley Knight, MD Rod Passman, MD Chris Mehta, MD Kevin Makati, MD

10:00 am BREAK & EXHIBITS

9:45 am

11:45 am PANEL DISCUSSION MODERATOR:

PANEL:

Albert Lin, MD

Susan Kim, MD

Kevin Makati, MD Rodney Horton, MD

Jessica Charron, RN



AGENDA

EP BREAK	COUT	SURGICAL	SURGICAL BREAKOUT		
	MODERATORS: Susan Kim, MD Albert Lin, MD DJ Lakkireddy, MD		MODERATORS: Patrick McCarthy, MD Armin Kiankhooy, MD Andrei Churyla, MD		
10:30 am	Watchman vs. Amulet vs. AtriClip DJ Lakkireddy, MD	10:30 am	The Evidence Supporting Concomitant AF Ablation James Cox, MD		
10:40 am	Closing Leaks After Percutaneous and Surgical LAAC Rodney Horton, MD	10:40 am	Methods for Surgical Closure of LAA Vinay Badhwar, MD		
10:50 am	What to do at Time of Redo AF Ablation Moussa Mansour, MD	10:50 am	Mitral/Maze — How to do Both Patrick McCarthy, MD		
11:00 am	PANEL DISCUSSION MODERATOR: Rodney Horton, MD	11:00 am	PANEL DISCUSSION MODERATOR: Vinay Badhwar, MD		
	PANEL: DJ Lakkireddy, MD Moussa Mansour, MD Susan Kim, MD Kevin Makati, MD Albert Lin, MD		PANEL: James Cox, MD Patrick McCarthy, MD Andrei Churyla, MD Armin Kiankhooy, MD		
11:15 am	Vascular Closure Rodney Horton, MD	11:15 am	Convergent Procedure: How To Do It Armin Kiankhooy, MD		
11:25 am	Pericardial Access and Drainage Albert Lin, MD	11:25 am	Totally Thoracoscopic Maze Procedure: How To Do It Andrei Churyla, MD		
11:35 am	AADs After AF Ablation and IV Sotalol Jessica Charron, RN	11:35 am	Should Concomitant Ablation be an STS Quality Criterion? Steve Bolling, MD		

12:00 pm	LUNCH
	6: NEW TECHNOLOGIE CHES, AND ENERGY SO
	MODERATORS: Annabelle Volgman, MD James Cox, MD Moussa Mansour, MD
1:00 pm	Cryoballoons for AF Jason Andrade, MD
1:10 pm	Low-Voltage Multi-Pulse Therapy for AF Igor Efimov, PhD
1:20 pm	Devices for Surgical Abla for AF Ralph Damiano, MD
1:30 pm	PANEL DISCUSSION MODERATOR: Annabelle Volgman, MD
	PANEL: Igor Efimov, PhD Jason Andrade, MD Ralph Damiano, MD Moussa Mansour, MD
1:45 pm	Pulsed Field Ablation (P David Haines, MD
1:55 pm	Ultra-Low CryoAblation With and Without PFA Atul Verma, MD
2:05 pm	PANEL DISCUSSION MODERATOR: Moussa Mansour, MD
	PANEL: David Haines, MD Atul Verma, MD Annabelle Volgman, MD
	BREAK & EXHIBITS

MODERATORS: James Cox, MD Patrick McCarthy, MD Bradley Knight, MD

	6: NEW TECHNOLOGIES, CHES, AND ENERGY SOURCES MODERATORS:	3:00 pm
	Annabelle Volgman, MD James Cox, MD Moussa Mansour, MD	3:10 pm
m	Cryoballoons for AF Jason Andrade, MD	3:20 pm
m	Low-Voltage Multi-Pulse Therapy for AF Igor Efimov, PhD	3:30 pm
m	Devices for Surgical Ablation for AF Ralph Damiano, MD	
m	PANEL DISCUSSION MODERATOR: Annabelle Volgman, MD	
	PANEL: Igor Efimov, PhD Jason Andrade, MD Ralph Damiano, MD Moussa Mansour, MD	3:45 pm 3:55 pm
n	Pulsed Field Ablation (PFA) for AF David Haines, MD	
m	Ultra-Low CryoAblation for AF With and Without PFA Atul Verma, MD	4:05 pm
m	PANEL DISCUSSION MODERATOR: Moussa Mansour, MD	4:10 pm
	PANEL: David Haines, MD Atul Verma, MD Annabelle Volgman, MD	
m	BREAK & EXHIBITS	4:25 pm
ΩN	7. DEMAINING ISSUES	

2:50 pm	Al and AF Faraz Ahmad, MD
3:00 pm	Medical Device Innovation Consortium Early Feasibility Study Peter Weiss, MD
3:10 pm	Pacemakers After Concomitant AF Surgery Patrick McCarthy, MD
3:20 pm	Can Interventional Therapy for AF be Map-Guided? James Cox, MD
3:30 pm	PANEL DISCUSSION MODERATOR: Patrick McCarthy, MD
	PANEL: Peter Weiss, MD James Cox, MD Bradley Knight, MD Faraz Ahmad, MD
3:45 pm	Future Directions in LAA Management DJ Lakkireddy, MD
3:55 pm	Future Directions in Catheter Ablation of AF Bradley Knight, MD
4:05 pm	Future Directions in Surgical Ablation of AF and LAA Closure Patrick McCarthy, MD
4:10 pm	PANEL DISCUSSION MODERATOR: DJ Lakkireddy, MD
	PANEL: Bradley Knight, MD Patrick McCarthy, MD James Cox, MD
4:25 pm	CLOSING COMMENTS Patrick McCarthy, MD Bradley Knight, MD James Cox, MD

5:00 pm **RECEPTION ON THE TERRACE**

(3rd floor)

11:45 am PANEL DISCUSSION

PANEL:

MODERATOR:

Armin Kiankhooy, MD

Andrei Churyla, MD

Steve Bolling, MD

Chris Mehta, MD

Patrick McCarthy, MD

REGISTRATION

CATHETER AND SURGICAL THERAPIES FOR ATRIAL FIBRILLATION CAST-AF

AUGUST 26-27, 2022 | RADISSON BLU AQUA HOTEL | CHICAGO, ILLINOIS

REGISTRATION FEES¹

In-Person Attendance² ☐ \$200

In-Person Attendance (Fellows) ☐ \$50

VIRTUAL ATTENDANCE

U.S. Residents □ \$50

Non-U.S. Residents - Complimentary □ \$0

- $^{\scriptsize 1}$ Visit registration site for additional details that may apply.
- ² Maximum of 200 in person attendees will be allowed.

HOW TO REGISTER

ONLINE - Please visit cvconferences.com/castafib

CANCELATION POLICY

Cancellations must be made in writing to cvconferences@northwestern.edu. The paid registrations fee will be refunded if cancellation is received by **July 30, 2022**. No refunds will be issued after this date.

QUESTIONS

Questions regarding registration should be directed to <u>cvconferences@northwestern.edu</u>. Registrations will not be accepted by telephone. For more information please visit one porthwestern edu



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Northwestern Medicine® is the shared vision that joins Northwestern Memorial HealthCare and Northwestern University Feinberg School of Medicine in a collaborative effort to transform medicine through quality healthcare, academic excellence, and scientific discovery.

