

# PROGRAM INFORMATION

# 2ND ANNUAL

# 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:

- **1.** 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.
- **4.** Apply the most advanced techniques for the catheter ablation of atrial fibrillation.
- 5. Describe the most advanced techniques for the surgical ablation of atrial fibrillation.
- 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 ablation for paroxysmal and non-paroxysmal atrial
- **9.** Discuss the current results of surgical ablation for non-paroxysmal atrial fibrillation.

- 10. Determine the limitations of the HRS definitions of success and failure for the interventional (catheter and surgical) treatment of atrial fibrillation.
- 11. 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.
- **15.** Discuss the current results of concomitant surgical ablation of atrial fibrillation during mitral valve, aortic valve, and/or coronary artery bypass surgery.

# TARGET AUDIENCE

This CME program has been designed to meet the educational needs of Cardiologists, Internists, Physician Assistants, Vascular Surgeons, ElectroPhysiologists, Physicians, Physician Assistants, Nurse Practitioners, Residents and Nurses and any other health care professionals who participate in the care of atrial fibrillation.

#### **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 <a href="https://www.radissonhotels.com/en-us/hotels/radisson-blu-chicago-aqua/meeting-events">https://www.radissonhotels.com/en-us/hotels/radisson-blu-chicago-aqua/meeting-events</a>.

#### **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.

#### ABIM MOC RECOGNITION STATEMENT

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 16 MOC points and patient safety MOC credit 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.

#### **CREDIT HOUR STATEMENT**

The Northwestern University Feinberg School of Medicine designates this live activity for a maximum of 16 *AMA PRA Category 1 Credit(s)*<sup>m</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

#### **OTHER CREDITS**

The American Academy of Nurse Practitioners and the American Nurses Credentialing Center accept *AMA PRA Category 1 Credit(s)*<sup>TIM</sup> from organizations accredited by the ACCME.

#### **FACULTY DISCLOSURE**

The Northwestern University FSM 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.

#### **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 the Office of CME at least one month prior to the conference date.

#### **ADDITIONAL INFORMATION**

Contact the Bluhm Cardiovascular Institute by email: <a href="mailto:cvconferences@northwestern.edu">cvconferences@northwestern.edu</a> or by phone at 312-664-3278.

# **CALL FOR ABSTRACTS**

Trainees are invited to submit abstracts for the poster presentation. A designated space will feature posters by trainees to present findings, interact with notable faculty, and further advance education. Trainees can submit abstract presentation online at: <a href="https://forms.feinberg">https://forms.feinberg</a>. <a href="https://forms.feinberg">northwestern.edu/view.php?id=887483</a>.

#### **DEADLINE FOR SUBMISSION: 11:00 PM**

Central Daylight Time on July 10, 2020.

Notifications for abstract acceptance will be announced via e-mail.

#### **COURSE DIRECTORS**

#### James Cox. MD

Surgical Director,
Center for Heart Rhythm Disorders
Director, Comprehensive Atrial
Fibrillation Program
Professor of Surgery
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#### Patrick McCarthy, MD

Executive Director,

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#### **PLANNING COMMITTEE**

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Lead Scientist for Ultrasound,
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#### Stefano Benussi, MD, PhD

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#### Carina Blomstrom-Lundqvist, MD

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#### Manuel Castella, MD

Clinic Hospital Barcelona University Barcelona, Spain

#### Aman Chugh, MD

University of Michigan Ann Arbor, MI

#### Ralph Damiano, MD

Washington University School of Medicine St. Louis St. Louis, MO

#### Emile Daoud, MD

Ohio State Univeristy Wexner Medical Center Wooster, OH

#### Natasja de Groot, MD

Erasmus Medical Center Rotterdam, Netherlands

#### David Delurgio, MD

Emory University School of Medicine Atlanta, GA

## Igor Efimov, MD

George Washington University Washington, DC

#### Kenneth Ellenbogen, MD

Viginia Commonwealth University Richmond, VA

#### Paul Friedman, MD

Mayo Clinic Rochester, MN

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Bordeaux University Hospital, Bordeaux, France

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#### Moussa Mansour, MD

Harvard University

Boston, MA

## Nassir Marrouche, MD

Tulane University
New Orleans, LA

#### Greg Michaud, MD

Vanderbilt University Nashville, TN

#### Suneet Mittal, MD

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Vishnevsky Institute Moscow, Russia

#### Harold Roberts, MD

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Cooper Medical School of Rowan University President of HRS Camden, NJ

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Heart and Rhythm Center Zurich, Switzerland

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Central Teaching Hospital of the Ministry of Interior Warsaw, Poland

#### Sabrina Tsao, MD, MBBS

University of Hong Kong Hong Kong, China

## HF Tse, MD, PhD

University of Hong Kong Hong Kong, China

#### Wendy Tzou, MD

University of Colorado Aurora, CO

#### Annabelle Santos Volgman, MD

Rush University Chicago, IL

# Oussama Wazni, MD

Cleveland Clinic Cleveland, OH

#### Richard Whitlock, MD, PhD

McMasters University
Hamilton, Ontario, Canada

#### Roger Winkle, MD

Silicon Valley Cardiology Palo Alto, CA



# PLENARY SESSION



FRIDAY, A	AUGUST 21, 2020
7:00 am	BREAKFAST
7:45 am	Welcome Patrick McCarthy, MD
7:45 am	Opening Comments James Cox, MD; Bradley Knight, MD
8:00 am	PLENARY LECTURES: Fundamentals of AF Intervention
	MODERATORS: Patrick McCarthy, MD; Robert Bonow, MD, MS; Susan Kim, MD
8:00 am	Anatomy and Physiology Pertinent to Intervention for Atrial Fibrillation James Cox, MD
8:15 am	Impact of Clinical Trials in AF Interventional Therapies Greg Michaud, MD
8:30 am	Importance of Disparate Endocardial and Epicardial Activation in the Clinical Mapping of Atrial Fibrillation Natasja de Groot, MD
8:45 am	Effect of Catheter Ablation and Maze Procedures on LA Function James Thomas, MD
9:00 am	The Future of Long-Term Monitoring Following Catheter and Surgical Intervention for Atrial Fibrillation Rod Passman, MD
9:15 am	Panel Discussion
9:30 am	BREAK
10:00 am	PLENARY ROUNDTABLE: How Should Success be Defined and Reported Following Catheter or Surgical Ablation for Atrial Fibrillation?
	MODERATORS: Meleze Hocini, MD; Rod Passman, MD; S. Chris Malaisrie, MD
	PANELISTS: Stefano Benussi, MD, PhD; Andrea Russo, MD; Piotr Suwalski, MD; Greg Michaud, MD
10:30 am	PLENARY LECTURES: LAA Closure: How I do it
	<b>Moderators:</b> DJ Lakkireddy, MD; Vera Rigolin, MD; Paul Friedman, MD
10:30 am	Anatomy and Physiology of the LAA Manuel Castella, MD
10:45 am	<b>How I do it: Thoracoscopic LAA Closure with an Epicardial AtriClip</b> Stefano Benussi, MD, PhD
11:00 am	How I do it: Endocardial LAA Closure with a Plug Rodney Horton, MD
11:15 am	How I do it: Epicardial LAA Closure with a LARIAT Device Randall Lee, MD, PhD
11:30 am	Results of the LAAOS-III Trial Richard Whitlock, MD, PhD
11:45 am	Panel Discussion
12:00 pm	LUNCH
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1:00 pm	PLENARY DEBATE: What is the Optimal Interventional Treatment Following Multiple Catheter Ablation Failures for Long-Standing Persistent AF?
	MODERATORS: Amiran Revishvili, MD, PhD; Carina Blomstrom-Lundqvist, MD; Vinay Badhwar, MD
L:00 pm	<b>His Bundle Ablation is the Best Option</b> Carina Blomstrom-Lundqvist, MD
1:10 pm	<b>A Joint Hybrid Procedure is the Best Option</b> Mark La Meir, MD
1:20 pm	The Convergent Procedure is the Best Option David Delurgio, MD
1:30 pm	<b>Minimally Invasive CryoMaze III is the Best Option</b> Niv Ad, MD
1:40 pm	Open Debate of the Best Option All Faculty
2:00 pm	PLENARY LECTURES: AF Management in Specific Clinical Scenarios
	MODERATORS: Stefano Benussi, MD, PhD; Annabelle Santos Volgman, MD; Robert Bonow, MD, MS
2:00 pm	Concomitant Treatment of Atrial Fibrillation during MVR Patrick McCarthy, MD
2:15 pm	Late Atrial Fibrillation Arising de novo Following MVR Christopher Mehta, MD
2:30 pm	Catheter Ablation of Atrial Tachycardias and Flutter following Surgery for Congenital Heart Disease Sabrina Tsao, MD, MBBS
2:45 pm	Concomitant Treatment of Atrial Fibrillation during CABG Andrei Churyla, MD
3:00 pm	Pre-Op Atrial Strain and Post-CABG Atrial Fibrillation Olga Kislitsina, MD, PhD
3:15 pm	Panel Discussion
3:30 pm	BREAK
4:00 pm	PLENARY LECTURES: Special Considerations During AF Interventions
	MODERATORS: Ralph Damiano, MD; Olga Kislitsina, MD, PhD; Manuel Castella, MD
4:00 pm	Heating and Cooling the Esophagus during AF Ablation Nishant Verma, MD
4:15 pm	Esophageal Deviation during AF Ablation Emile Daoud, MD
4:30 pm	Atrial Fibrillation and Atrial Cardiomyopathies Jane Wilcox, MD, MSc
4:45 pm	<b>Neurohormonal Consequences of Epicardial vs Endocardial LAA closure</b> DJ Lakkireddy, MD
5:00 pm	Anticoagulation and Intervention for Atrial Fibrillation Andrea Russo, MD
5:15 pm	Panel Discussion
5:30 pm	PLENARY ROUNDTABLE: When Should the LAA be Closed?
	MODERATORS: Stefano Benussi, MD, PhD; Piotr Suwalski, MD; Hung-Fat Tse, MD
	PANELISTS: Sacha Salzberg, MD, PhD; Richard Whitlock, MD, PhD; Randall Lee, MD, PhD; Andrea Russo, MI
5:00 pm	COCKTAILS ON THE TERRACE



# BREAKOUT SESSIONS



# SATURDAY, AUGUST 22, 2020

JATORDA	11, A00031 22, 2020
7:00 am	BREAKFAST
7:45 am	<b>Opening Comments</b> Patrick McCarthy, MD
8:00 am	PLENARY LECTURES: Results of Contemporary Interventional Procedures for AF Ablation
	MODERATORS: Carina Blomstrom-Lundqvist, MD; Bradley Knight, MD; Amiran Revishvili, MD, PhD
8:00 am	Results of Catheter Ablation for PAF Kenneth Ellenbogen, MD
8:15 am	Results of Catheter Ablation for Persistent and Long-Standing Persistent AF Meleze Hocini, MD
8:30 am	Results of Hybrid Procedures for Persistent and Long-Standing Persistent AF Mark La Meir, MD
8:45 am	Results of the Maze-IV Procedure for Persistent and Long-Standing Persistent AF Ralph Damiano, MD
9:00 am	Results of the Minimally Invasive CryoMaze III for Persistent and Long-Standing Persistent AF Niv Ad, MD
9:15 am	Panel Discussion
9:30 am	BREAK
10:00 am	PLENARY ROUNDTABLE: After 2-3 Failed Catheter Ablations, What Next?
	MODERATORS: Fred Morady, MD; Patrick McCarthy, MD; Susan Kim, MD
	PANELISTS: Amiran Revishvili, MD, PhD; Meleze Hocini, MD; Annabelle Santos Volgman, MD; Vinay Badhwar, MD; Andrei Churyla, MD; David Haines, MD
10:30 am	PLENARY LECTURES: Biophysics of Novel Catheter-Based AF Therapies
	MODERATORS: Bradley Knight, MD; Olga Kislitsina, MD, PhD; Meleze Hocini, MD
10:30 am	Catheter-Based Delivery of Gene Therapy for AF Rishi Arora, MD
10:45 am	Biophysics of Pulsed Electrical Field Ablation David Haines, MD

11:00 am Bioengineering of a Near-Critical Nitrogen Linear Cryoablation Catheter

11:30 am AF Ablation Technologies Beyond Electroporation and Ultra-Low Cryothermia

11:15 am High-Power, Short-Duration RF Catheter Ablation for AF

#### SESSION I

ELECTROPHYSIOLOGY OPTIMAL TECHNIQUE FOR PVI			SURGERY VARIATIONS OF THE MAZE PROCEDURE	
	MODERATORS: Oussama Wazni, MD; Andrea Natale, MD; Wendy Tzou, MD		MODERATORS: S. Chris Malaisrie, MD; Andrei Churyla, MD; Sacha Salzberg, MD, PhD	
1:00 pm	<b>Point-by-Point RF</b> Moussa Mansour, MD	1:00 pm	<b>Pearls on the Maze Lesions</b> Manuel Castella, MD	
1:10 pm	<b>Cryoballoon</b> Jason Andrade, MD	1:10 pm	<b>Technical Modification of Maze Procedure</b> Patrick McCarthy, MD	
1:20 pm	<b>Pulsed Electrical Field Ablation</b> David Hanies, MD	1:20 pm	Maze-IV Procedure - Surgical Technique Ralph Damiano, MD	
1:30 pm	LAA Closure Improves Results of CA DJ Lakkireddy, MD	1:30 pm	CryoMaze III Procedure - Surgical Technique Niv Ad, MD	
1:40 pm	<b>RF Balloon</b> Amin Al-Ahmad, MD	1:40 pm	Robotic Maze Procedure - Surgical Technique Harold Roberts, MD	
1:50 pm	Panel Discussion	1:50 pm	Panel Discussion	
2:00 pm	PLENARY LECTURES: Early and Lo	ong-Term Res	sults	
	MODERATORS:			

Mark La Meir, MD; Manuel Castella, MD; Wendy Tzou, MD

2:00 pm	Early Experience	with Low Energy	Multistage	Electrotherapy for A	F
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Igor Effimov, MD

2:15 pm Early Clinical Results with the Ultra-Low Linear Cryoablation Catheter

Suneet Mittal, MD

2:30 pm Long-Term Results of LAA Closure with the AtriClip

Sacha Salzberg, MD, PhD

2:45 pm Long-Term Results of the Maze-IV Procedure for Atrial Fibrillation

Ralph Damiano, MD

3:00 pm Long-Term Results of the Minimally Invasive CryoMaze III Procedure

for Atrial Fibrillation

Niv Ad, MD

3:15 pm **Panel Discussion** 

3:30 pm **BREAK** 

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James Cox, MD

Roger Winkle, MD

Andrea Natale, MD

11:45 am Panel Discussion

# BREAKOUT SESSIONS

# REGISTRATION

#### **SESSION II**

ELECTROPHYSIOLOGY CONTROVERSIES IN AF ABLATION		<b>SURGERY</b> <i>SURGICAL OPTIONS, RESULTS, AND GUIDELINES</i>	
	MODERATORS: Emile Daoud, MD; HF Tse, MD, PhD; Wendy Tzou, MD		MODERATORS: Patrick McCarthy, MD; S. Chris Malaisrie, MD; Harold Roberts, MD
4:00 pm	Preventing Life-Threatening Complications During AF Ablation Oussama Wazni, MD	4:00 pm	Surgical Options for Patients with AF Undergoing Primary CABG, AVR, or MVR James Cox, MD
4:10 pm	<b>Post Ablation LA Flutters</b> Aman Chugh, MD	4:10 pm	<b>Long-Term Benefits of</b> <b>Concomitant AF Surgery</b> Andrei Churyla, MD
4:20 pm	<b>AF Drivers</b> Sanjiv Narayan, MD	4:20 pm	Hybrid Procedures vs CryoMaze-III for LSpAF Niv Ad, MD
4:30 pm	<b>Adjunctive LAA Ligation</b> AI Lin, MD	4:30 pm	Convergent Procedure - Surgical Technique Omar Lattouf, MD
4:40 pm	<b>Imaging in AF Ablation</b> Nasir Marrouche, MD	4:40 pm	<b>Guidelines for AF Surgery</b> Vinay Badhwar, MD
4:50 pm	Panel Discussion	4:50 pm	Panel Discussion

5:00 pm	PLENARY LECTURES: Catheter and Surgical Therapies for AF -
	History and Future Directions

MODERATORS:

Ken Ellenbogen, MD; Susan Kim, MD

The Future of Catheter Ablation for AF

Bradley Knight, MD

5:15 pm The Future of Concomitant AF Ablation in Cardiac Surgery

Patrick McCarthy, MD

5:30 pm The History of Medical and Surgical Cooperation in AF Interventional Therapy

James Cox, MD

**Panel Discussion** 5:45 pm



# 2ND ANNUAL

# CATHETER AND SURGICAL THERAPIES FOR ATRIAL FIBRILLATION CAST-AF

AUGUST 21-22, 2020 | RADISSON BLU AQUA HOTEL | CHICAGO, ILLINOIS

REGISTRATION FEE	<b>Early Bird</b> Ends July 10, 2020 at 5:00 PM	<b>Regular Rate</b> Begins July 11, 2020
Physicians	□ \$450	□ \$550
Industry	□ \$500	□ \$600
Northwestern Medicine Physician	□ \$250	□ \$350
Nurse, Technician, or Fellow in Training	□ \$150	□ \$250
Northwestern Medicine Alumni	□ \$250	□ \$350

#### **HOW TO REGISTER**

ONLINE - Please visit cme.northwestern.edu/conferences

MAIL - Mail the registration form

with a check made payable to **Northwestern University** Office of CMF

Northwestern University's Feinberg School of Medicine 676 N. St. Clair St., Suite 2330 Chicago, Illinois 60611

#### **CANCELLATION POLICY**

Cancellations must be made in writing via email to the Office of CME: cme@northwestern.edu. The paid registration fee, minus a \$50 administrative charge, will be refunded. No refunds will be granted after August 1st, 2020.

#### **OUESTIONS**

Questions regarding registration should be directed to the Office of CME at cme@northwestern.edu or 312-503-8533. Registrations will not be accepted by telephone.

#### PLEASE TYPE OR PRINT

Last Name	First Name		
□MD □DO □PhD □RN	Other (please specify)		
Institution			
Address			
City	State ZIP Code		
<u>Daytime Phone</u>	Fax		
E-mail (Required)			
	Your registration confirmation will be e-mailed		
Specialty			
Please indicate any dietary needs			



676 North St. Clair Street Suite 2330 Chicago, Illinois 60611

# SAVE THE DATE!

Nutrition Science: From Populations to Plates May 3, 2020 | Chicago, Illinois

13th Annual Women's Cardiovascular Health Symposium May 12, 2020 | Chicago, Illinois 5th Annual Advances in Pulmonary Hypertension June 26, 2020 | Chicago, Illinois

9th Annual Chicago Cardiovascular Update July 23-25, 2020 | Chicago, Illinois

Northwestern Medicine Cardiothoracic Nursing Symposium September 3-4, 2020 | Chicago, Illinois 42<sup>nd</sup> Annual ECHO Northwestern September 11-13, 2020 | Chicago, Illinois

2nd Annual Heart Team Summit October 23-24, 2020 | St Louis, Missouri

Northwestern Snowbirds:

Northwestern Snowbirds:

Hot Topics in Cardiovascular Medicine
November 8-9, 2020 | Miami, Florida

The 16th Annual Heart Failure Holiday Symposium

December 10-12, 2020 | Chicago, Illinois

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transform medicine through quality healthcare, academic excellence, and scientific discovery.

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