CATHETER and SURGICAL THERAPIES for ATRIAL FIBRILLATION [CAST-AF]

August 16-17, 2019
Loews Chicago Hotel
Chicago, Illinois

COURSE DIRECTORS
James Cox, MD
Bradley Knight, MD
Patrick McCarthy, MD

THIS ACTIVITY HAS BEEN APPROVED FOR
14.75 AMA PRA CATEGORY 1 CREDITS™

SPONSORED BY
Bluhm Cardiovascular Institute of Northwestern Memorial Hospital
Northwestern University Feinberg School of Medicine
Office of Continuing Medical Education

CO-SPONSORED BY
AATS
Heart Rhythm Society

REGISTER TODAY! www.cme.northwestern.edu
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. A special invited plenary lecture will also be delivered by Professor Amiran Revishvili of Moscow, Russian Federation, who is both an interventional EP and a cardiac arrhythmia surgeon. Audience participation will be by electronic means at the end of the plenary roundtables and plenary debates.

LEARNING OBJECTIVES
After this activity, participants will be able to:

1. Discuss the electrophysiology of atrial fibrillation
2. 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
3. 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
6. Discuss the electrophysiological basis of catheter ablation for paroxysmal and non-paroxysmal atrial fibrillation
7. 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 fibrillation
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, 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.

CONFERENCE LOCATION
The program will be held at the Loews Chicago Hotel located at 455 N Park Dr, Chicago, IL 60611. Directions and parking information are available at www.loewshotels.com/chicago-downtown.

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

CREDIT DESIGNATION STATEMENT
The Northwestern University Feinberg School of Medicine designates this live activity for a maximum of 14.75 AMA PRA Category 1 Credit(s)™. 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)™ from organizations accredited by the ACCME.

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 The Northwestern University Feinberg School of Medicine 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: cvconferences@northwestern.edu or by phone at 312-664-3278.

CALL FOR ABSTRACTS
Trainees will be provided the opportunity to submit abstracts as part of our inaugural poster presentation. We are thrilled to foster a space where trainees can present their findings, interact with notable faculty and continue their education. Trainees can submit abstract presentations here: https://tinyurl.com/y64y7qtw.

DEADLINE FOR SUBMISSION: 11:00 PM Central Daylight Time on July 15, 2019. Notifications for abstract acceptance will be announced via e-mail.
FACULTY

COURSE DIRECTORS

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Assistant Professor of Medicine

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Jason Andrade, MD
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Vancouver, British Columbia, Canada

Vinay Badhwar, MD
West Virginia University
Morgantown, WV

Graydon Beatty, PhD
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Spedali Civili di Brescia
University Hospital Brescia, Italy

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Queen’s University
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Aalst, Belgium

Marek Ehrlich, MD
Vienna University General Hospital
Vienna, Austria

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Brussels, Belgium

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Atlanta, GA

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New Orleans, LA

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Stanford, CA

Andrea Natale, MD
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Texas Cardiac Arrhythmia Institute
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Baltimore, MD

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Richard Whitlock, MD, PhD
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Hamilton, Ontario, Canada

Uri Yaron
Biosense Webster
Brunswick, NJ

Catheter and Surgical Therapies for Atrial Fibrillation [CAST-AF]
PLENARY SESSION

FRIDAY, AUGUST 16, 2019

7:00 am  BREAKFAST
         and ABSTRACT JUDGING (Non-CME)

7:45 am  Opening Comments
         James Cox, MD; Bradley Knight, MD

8:00 am  PLENARY LECTURES
         MODERATORS:
         Patrick McCarthy, MD; Robert Bonow, MD, MS

8:00 am  Anatomy Pertinent to Intervention for Atrial Fibrillation
         James Cox, MD

8:30 am  Electrophysiology Pertinent to Intervention for Atrial Fibrillation
         Richard Schuessler, PhD

9:00 am  Anatomy and Physiology of the LAA
         Manuel Castella, MD

9:35 am  PLENARY ROUNDTABLE
         Should the LAA be Closed in All Patients with Atrial Fibrillation?
         MODERATORS:
         Moussa Mansour, MD; Stefano Benussi, MD, PhD
         PANELISTS:
         Sacha Salzberg, MD, PhD; Richard Whitlock, MD; Randall Lee, MD, PhD;
         S. Chris Malaisrie, MD; Rodney Horton, MD

10:10 am  Proposals and Audience Voting

PLENARY DEBATE

What is the Optimal Treatment for Drug-Refractory Long-Standing
Persistent Atrial Fibrillation?

MODERATORS:
James Cox, MD; Andrea Russo, MD

10:25 am  Medical Rate Control
         Annabelle Santos Volgman, MD

10:30 am  Catheter Ablation
         Amin Al-Ahmad, MD

10:35 am  Hybrid Procedure
         Mark La Meir, MD

10:40 am  Surgical Ablation
         Niv Ad, MD

10:45 am  LAA Closure
         Steven Bolling, MD

10:50 am  Group Discussion

11:00 am  Proposals and Audience Voting
SESSION I

ELECTROPHYSIOLOGY
WHAT IS THE BEST TOOL TO ISOLATE THE PULMONARY VEINS?

MODERATOR: Rod Passman, MD

11:15 am Point-by-Point RF Catheter Ablation
Larry Chinitz, MD

11:30 am Cryoballoon Device
Jason Andrade, MD

11:45 am Other Balloon-Based Devices Beyond Cryoballoon
Amin Al-Ahmad, MD

12:00 pm Electroporation
David Haines, MD

12:15 pm Panel Discussion

12:30 pm LUNCH

SESSION II

ELECTROPHYSIOLOGY
WHAT SHOULD BE DONE DURING FIRST-TIME ABLATION FOR PERSISTENT AF?

MODERATORS: Rishi Arora, MD
Nishant Verma, MD, MPH

1:00 pm PVI only
Atul Verma, MD

1:15 pm Posterior Box Isolation Using Cryo-Catheter
Frank Pelosi, MD

1:30 pm Posterior Wall Ablation plus Triggers
Andrea Natale, MD

1:45 pm PVI plus Rotors
Sanjiv Narayan, MD, PhD

2:00 pm PVI plus LAA ligation
Al Lin, MD

2:15 pm Minimally Invasive Maze Surgery
Niv Ad, MD

2:30 pm PVI plus Targeting Scar
Nasir Marrouche, MD

2:45 pm Panel Discussion

SURGERY
SURGICAL MANAGEMENT OF THE LAA

MODERATORS: Sacha Salzberg, MD, PhD
Vinay Badhwar, MD

11:15 am Effect of LAA Closure on Left Atrial Function
Vera Rigolin, MD

11:30 am Neurohormonal Consequences of Epicardial LAA Closure
Manuel Castella, MD

11:45 am Long-Term Results of LAA Closure with the Epicardial AtriClip
Sacha Salzberg, MD, PhD

12:00 pm How I do it: Thoracoscopic Closure of LAA
Stefano Benussi, MD, PhD

12:15 pm Results of the LAIAOS-III Trial
Richard Whitlock, MD, PhD

12:30 pm LUNCH
Energy Sources for Performing AF Surgery (Non-CME)
Syd Gaynor, MD

SURGERY
SURGICAL TECHNIQUES FOR AF ABLATION

MODERATORS: James Cox, MD
Ralph Damiano, MD

1:00 pm Pearls on the Lesions of the Maze Procedure
Manuel Castella, MD

1:15 pm How I do it: CryoMaze-III Procedure
Niv Ad, MD

1:30 pm How I do it: Technical Modification of the CryoMaze-III Procedure
Patrick McCarthy, MD

1:45 pm How I do it: Maze-IV Procedure
Ralph Damiano, MD

2:00 pm How I do it: TT Maze Procedure
Armin Kiankhooy, MD

2:15 pm How I do it: Robotic Maze Procedure
Harold Roberts, MD

2:30 pm How I do it: Convergent Procedure
Omar Lattouf, MD, PhD

2:45 pm How I do it: Joint Hybrid Procedure for AF
Mark La Meir, MD
3:00 pm  **PLENARY ROUNDTABLE**

*How Should Failure be Defined and Reported Following Catheter or Surgical Ablation for Atrial Fibrillation?*

**MODERATORS:**
Annabelle Santos Volgman, MD; Gianluigi Bisleri, MD

**PANELISTS:**
Stefano Benussi, MD, PhD; Andrea Russo, MD; Manuel Castella, MD; HF Tse, MD, PhD

3:35 pm  **Proposals and Audience Voting**

3:45 pm  **PLENARY LECTURES**

**MODERATORS:**
Annabelle Santos Volgman, MD; Manuel Castella, MD

3:45 pm  **A Comparison of the Current Medical and Surgical Guidelines for the Treatment of Atrial Fibrillation**
Andrea Russo, MD

4:15 pm  **Atrial Fibrillation in TAVR and SAVR Patients**
Charles Davidson, MD

4:45 pm  **The Future of Long-Term Monitoring Following Catheter and Surgical Intervention for Atrial Fibrillation**
Rod Passman, MD

5:15 pm:  **COCKTAILS ON THE ROOF**
Streeterville Social | Loews Chicago Hotel Rooftop Bar
PLENARY SESSION

SATURDAY, AUGUST 17, 2019

7:30 am  BREAKFAST

8:00 am  PLENARY LECTURES

MODERATORS:
Amiran Revishvili, MD, PhD; Fred Morady, MD

8:00 am  Atrial Fibrillation and Valvular Heart Disease
Robert Bonow, MD, MS

8:30 am  Ultralow Cryoablation for AF: Early Clinical Experience
Tom De Potter, MD

9:00 am  Effect of Catheter Ablation and Maze Procedures on LA Function
James Thomas, MD

9:35 am  PLENARY ROUNDTABLE

After 2-3 Failed Catheter Ablations, What Next?

MODERATORS:
Niv Ad, MD; Susan Kim, MD

PANELISTS:
Amiran Revishvili, MD, PhD; Fred Morady, MD; Steven Bolling, MD;
Vinay Badhwar, MD; Ralph Damiano, MD; David Haines, MD

10:10 am  Proposals and Audience Voting

10:25 am  PLENARY DEBATE

Optimal Off-Pump Closure of the LAA

MODERATORS:
Ralph Damiano, MD; Vera Rigolin, MD

10:25 am  Percutaneous Endocardial Devices
Rodney Horton, MD

10:30 am  Percutaneous Epicardial LARIAT
Randall Lee, MD, PhD

10:35 am  Thoracoscopic Epicardial AtriClip
Stefano Benussi, MD, PhD

10:40 am  Group Discussion

11:00 am  Proposals and Audience Voting
SIMULTANEOUS SESSIONS

SESSION I

ELECTROPHYSIOLOGY
LEFT ATRIAL APPENDAGE CLOSURE

MODERATORS:
Bradley Knight, MD
Al Lin, MD

11:15 am  Optimal Watchman and Amulet Implant Techniques
Rodney Horton, MD

11:30 am  Closing Post-Surgical LAA Leaks
Christopher Ellis, MD

11:45 am  LACC using Suture Snare
Randall Lee, MD, PhD

12:00 pm  Future LAAC Devices
Andrea Natale, MD

12:15 pm  Panel Discussion
12:30 pm  LUNCH

SESSION II

ELECTROPHYSIOLOGY
MAPPING AND IMAGING SYSTEM FOR AF ABLATION PROCEDURES (Non-CME)

MODERATORS:
Kaustubha Patil, MD
Bradley Knight, MD
Gregory Michaud, MD

1:00 pm  CARTO/Biosense
Nader Ghaly, MD, MSc

1:15 pm  NavX/Abbott/Topera
Industry Representative

1:30 pm  Rhythmia/BSCI
Bradley Horst

1:45 pm  AcQMap/Acutus
Graydon Beatty, PhD

2:00 pm  CardioInsight
Marek Ehrlich, MD

SESSION II

ELECTROPHYSIOLOGY
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12:00 pm  Future LAAC Devices
Andrea Natale, MD

12:15 pm  Panel Discussion
12:30 pm  LUNCH

SURGERY
CONCOMITANT AF SURGERY – I

MODERATOR:
Patrick McCarthy, MD

11:15 am  Surgical Options for Patients with AF Undergoing Primary CABG, AVR, or MVR
James Cox, MD

11:30 am  Long-term Results of the Maze Procedure for Atrial Fibrillation
Ralph Damiano, MD

11:45 am  Long-term Benefits of Concomitant AF Ablation during Cardiac Surgery
Andrei Churyla, MD

12:00 pm  Concomitant AF Ablation in Patients Undergoing Mitral Valve Surgery
Patrick McCarthy, MD

12:15 pm  Concomitant AF surgery in Patients Undergoing Coronary Artery Bypass Surgery
Steven Bolling, MD

12:30 pm  LUNCH
Concomitant AF Surgery in Patients Undergoing Aortic Valve Surgery (Non-CME)
Timo Weimar, MD

SURGERY
CONCOMITANT AF SURGERY – II

MODERATOR:
Patrick McCarthy, MD

1:00 pm  Disparate Epicardial and Endocardial Maps Following AF Ablation
Gianluigi Bisleri, MD

1:15 pm  Results of Staged Hybrid Procedures for Persistent and L-S Persistent AF
Gianluigi Bisleri, MD

1:30 pm  Results of Joint Hybrid Procedures for Persistent and L-S Persistent AF
Mark La Meir, MD

1:45 pm  Hybrid Procedures vs Minimally Invasive CryoMaze Procedure for Persistent and L-S Persistent AF
Niv Ad, MD

2:00 pm  Late Atrial Fibrillation Arising de novo Following Mitral Valve Surgery
S. Chris Malaisrie, MD

REGISTER TODAY! www.cme.northwestern.edu
2:15 pm **SPECIAL INVITED LECTURE**

**INTRODUCTION:**
James Cox, MD

How I Treat Long-Standing Persistent AF as both an Interventional Electrophysiologist and a Cardiac Arrhythmia Surgeon
Amiran Sh. Revishvili, MD, PhD

3:00 pm **INDUSTRY ROUNDTABLE (Non-CME)**

The Role of Industry in the Diagnosis and Treatment of Atrial Fibrillation

**MODERATORS:**
Patrick McCarthy, MD; Andrea Natale, MD

**ABBOTT**
Michael Dale, President of Structural Heart

**ATRICURE**
Michael Carrel, CEO

**SENTREHEART**
Russ Seiber, CEO

**BIOSENSE-WEBSTER**
Uri Yaron, Worldwide President

**BOSTON SCIENTIFIC**
Bradley Horst, Vice-President

**MEDTRONIC**
Mark Stewart, Sr. Prin. Scientist

**PHILIPS**
Industry Representative

4:00 pm **ADJOURN**
CATHETER and SURGICAL THERAPIES for ATRIAL FIBRILLATION [CAST-AF]
HOW TO REGISTER

ONLINE – Please visit cme.northwestern.edu
MAIL – Mail the registration form with a check made payable to Northwestern University
Attn: Department of Medicine, CAST-AF
Northwestern University
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 July 15, 2019.

QUESTIONS
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.

REGISTRATION FEE

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8th Annual Chicago Cardiovascular Update  
July 18-20, 2019 | Chicago, Illinois

4th Annual Advances in Pulmonary Hypertension  
August 2, 2019 | Chicago, Illinois

Cardiothoracic Nursing Symposium  
September 5-6, 2019 | Chicago, Illinois

41st Annual Echo Northwestern Program  
September 20-22, 2019 | Chicago, Illinois

(New!) Heart Team Summit  
October 18-19, 2019 | Chicago, Illinois

15th Annual Heart Failure Holiday Symposium  
December 6-7, 2019 | Chicago, Illinois

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