



Symposium on Robotic Cardiac Surgery: Mitral Valve Repair, Coronary Bypass & More

March 23-24, 2018
Chicago, IL

Program Directors

T. Sloane Guy, New York, NY
Joseph A. Dearani, Rochester, MN
Husam H. Balkhy, Chicago, IL

Friday:

7:00 a.m. – 7:30 a.m. Registration & Breakfast

Session 1: Building a Foundation for Robotic Cardiac Surgery

Session Moderators: *Joseph A. Dearani, Rochester, MN, T. Sloane Guy, New York, NY, and Husam H. Balkhy, Chicago, IL*

7:30 a.m. – 7:35 a.m. Symposium Goals, Welcome and Introductions

7:35 a.m. – 7:50 a.m. Current Clinical & Economic Evidence for Robotic Cardiac Surgery
A. Marc Gillinov, Cleveland OH

7:50 a.m. – 8:05 a.m. Prerequisites for Successful Launch of a Robotic Cardiac Surgery Program
Evelio Rodriguez, Nashville, TN

8:05 a.m. – 8:20 a.m. What Does a Fully Committed Robotic Cardiac Surgery Program Look Like and What Procedures Can be Performed?
Husam H. Balkhy, Chicago, IL

8:20 a.m. – 8:35 a.m. Detailed Steps for Building a Robotic Cardiac Surgery Program
T. Sloane Guy, New York, NY

8:35 a.m. – 8:50 a.m. Individual & Team Training in Robotic Surgery: What are the options?
Douglas A. Murphy, Atlanta, GA

8:50 a.m. – 9:00 a.m. Panel Discussion

9:00 a.m. – 9:20 a.m. BREAK

Session 2: Robotic Mitral Valve Procedural Details

Session Moderators: *Evelio Rodriguez, Nashville, TN and Vinay Badhwar, Morgantown, WV*

9:20 a.m. – 9:35 a.m. Patient Selection for Robotic Mitral Valve Surgery
A. Marc Gillinov, Cleveland OH

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- 9:35 a.m. – 9:50 a.m. Circulatory Management Strategy: Transthoracic Clamp Technique
Joseph A. Dearani, Rochester, MN
- 9:50 a.m. – 10:05 a.m. Circulatory Management Strategy: Endoballoon
Douglas A. Murphy, Atlanta, GA
- 10:05 a.m. – 10:20 a.m. Totally Endoscopic Robotic Mitral Valve Repair, Step by Step
T. Sloane Guy, New York, NY
- 10:20 a.m. – 10:35 a.m. Mini Thoracotomy Robotic Mitral Valve Repair, Step by Step
Simon Maltais, Rochester, MN
- 10:35 a.m. – 10:55 a.m. Panel Discussion
- 10:55 a.m. – 11:15 a.m. BREAK**
- 11:15 a.m. – 12:55 p.m. Breakout 1 and 2 / Procedure Demonstrations
(Group broken up into 4 groups / one rotation / 45 minute)**
- Station 1: Live Simulation/Demonstration
Robotic Mitral Valve Repair
Douglas A. Murphy, Atlanta, GA
- Station 2: Live Simulation/Demonstration
Robotic Assisted TECAB
Husam H. Balkhy, Chicago, IL
- Station 3: Live Simulation/Demonstration
Robotic Assisted MIDCAB
Francis P. Sutter, Wynnwood, PA
- Station 4: Hands-on Robotic Surgery Simulator Exercise
Live Simulation/Demonstration: Advanced Circulatory Management
T. Sloane Guy, New York, NY
- 1:00 p.m. – 2:15 p.m. Lunch with Keynote Speaker (45 minute talk)
Delos M. Cosgrove MD, Cleveland Clinic
“Why Hospital Systems Should Embrace Robotic Cardiac Surgery”**

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Session 3: Robotic Coronary Artery Bypass Basic Principles

Session Moderators: *Daniel M. Bethencourt, Long Beach, CA, Francis P. Sutter, Wynnewood, PA*

- 2:15 p.m. – 2:30 p.m. Robotic Coronary Surgery: Anesthesia considerations, patient positioning, and port placement
Richard C. Daly, Rochester, MN
- 2:30 p.m. – 2:45 p.m. Robotic MIDCAB: How I do it and lessons over a 15 year experience
Daniel M. Bethencourt, Long Beach, CA
- 2:45 p.m. – 3:00 p.m. Robotic MIDCAB: The ‘Micro’ Thoracotomy Approach
Francis P. Sutter, Wynnewood, PA
- 3:00 p.m. – 3:15 p.m. Robotic MIDCAB: Making the Transition from an OPCAB Mindset
John D. Puskas, New York, NY
- 3:15 p.m. – 3:30 p.m. Robotic MIDCAB: Post-op considerations, Fast Track, Pain Management
Nirav C. Patel, New York, NY
- 3:30 p.m. – 3:50 p.m. Panel Discussion
- 3:50 p.m. – 4:10 p.m. *BREAK***

Session 4: Mitral Valve Repair Techniques and Avoiding Complications

Session Moderators: *Douglas A. Murphy, Atlanta, GA, T. Sloane Guy, New York, NY*

- 4:10 p.m. – 4:25 p.m. Robotic Mitral Valve Repair, Resectional Techniques
Joseph A. Dearani, Rochester, MN
- 4:25 p.m. – 4:40 p.m. Robotic Mitral Valve Repair, Non-Resectional Techniques
T. Sloane Guy, New York, NY
- 4:40 p.m. – 4:55 p.m. Robotic Mitral Valve Replacement
Branden R. Reynolds, Spokane, WA
- 4:55 p.m. – 5:10 p.m. Video Session: Complex Robotic Mitral Valve Repairs
Vinay Badhwar, Morgantown, WV
- 5:10 p.m. – 5:25 p.m. Avoiding Complications in Robotic Mitral Valve Repair
A. Marc Gillinov, Cleveland OH
- 5:25 p.m. – 5:40 p.m. When, Why, and How to Convert from Robotics to Open Surgery
Simon Maltais, Rochester, MN

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5:40 p.m. – 6:00 p.m. Panel Discussion

SATURDAY

7:00 – 7:30 am Registration & Breakfast

Session 5: TECAB (Totally Endoscopic Robotic Coronary Artery Bypass)

Session Moderators: *Husam H. Balkhy, Chicago, IL, Johannes Bonatti, Abu Dhabi*

7:30 a.m. – 7:45 a.m. The Case for TECAB: Value of Robotic TECAB versus Robotic MIDCAB
Johannes Bonatti, Abu Dhabi

7:45 a.m. – 8:00 a.m. Robotic TECAB: Port placement, Taking Down the RIMA
Husam H. Balkhy, Chicago, IL

8:00 a.m. – 8:15 a.m. Robotic Beating Heart TECAB: Endowrist Stabilizer, Hand Sewn Anastomosis
Louis Labrousse, Bordeaux, France

8:15 a.m. – 8:30 a.m. Robotic TECAB: The Arrested Heart Approach
Johannes Bonatti, Abu Dhabi

8:30 a.m. – 8:45 a.m. Robotic TECAB: Using the coronary Anastomotic Connector
Husam H. Balkhy, Chicago, IL

8:45 a.m. – 9:05 a.m. Panel Discussion

9:05 a.m. – 9:25 a.m. BREAK

Session 6: Robotic Intracardiac Surgery, More Than Just the Mitral!

Session Moderators: *Douglas A. Murphy, Atlanta, GA, A. Marc Gillinov, Cleveland OH*

9:25 a.m. – 9:40 a.m. Redo Robotic Mitral Valve Surgery
Clifton T. Lewis, Birmingham, AL

9:40 a.m. – 9:55 a.m. Atrial Fibrillation Techniques in Robotics
Evelio Rodriguez, Nashville, TN

9:55 a.m. – 10:10 a.m. Tricuspid Valve Repair and Replacement
Clifton T. Lewis, Birmingham, AL

10:10 a.m. – 10:25 a.m. Atrial Septal Defect Closure & Cardiac Tumor Resection
Branden R. Reynolds, Spokane, WA

10:25 a.m. – 10:40 a.m. Postoperative Management

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10:40 a.m. – 11:00 a.m. Panel Discussion

**11:00 a.m. – 12:40 p.m. Breakout 3 and 4 / Procedure Demonstrations
(Group broken up into 4 groups / one rotation / 45 minute)**

Station 1: Live Simulation/Demonstration
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Douglas A. Murphy, Atlanta, GA

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Husam H. Balkhy, Chicago, IL

Station 3: Live Simulation/Demonstration
Robotic Assisted MIDCAB
Francis P. Sutter, Wynnewood, PA

Station 4: Hands-on Robotic Surgery Simulator Exercise
Live Simulation/Demonstration: Advanced Circulatory Management
T. Sloane Guy, New York, NY

12:40 p.m. – 1:30 p.m. LUNCH

Session 7: Robotic Coronary Artery Bypass: Avoiding Problems

Session Moderators: *Richard C. Daly, Rochester, MN, and Nirav C. Patel, New York, NY*

1:30 p.m. – 1:45 p.m. Robotic Coronary Surgery: Avoiding Pitfalls during Port placement/ Mini
Thoracotomy
Francis P. Sutter, Wynnewood, PA

1:45 p.m. – 2:00 p.m. Robotic Coronary Surgery: Avoiding IMA Injury and Finding the Correct
Target
Louis Labrousse, Bordeaux, France

2:00 p.m. – 2:15 p.m. Robotic Coronary Surgery: Intra-operative Graft Patency assessment: Is
Routine angiography necessary?
Daniel M. Bethencourt, Long Beach, CA

2:15 p.m. – 2:30 p.m. Robotic Coronary Surgery: When and How to Convert to Open Surgery
Nirav C. Patel, New York, NY

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- 2:30 p.m. -2:45 p.m. Robotic Coronary Surgery: Avoiding Post-operative Complications, Bleeding;
Pericarditis
Richard C. Daly, Rochester, MN
- 2:45 p.m. – 3:05 p.m. Panel Discussion
- 3:05 p.m. – 3:25 p.m. *BREAK***

Session 8: Advanced Robotic Coronary Artery Bypass Concepts

Session Moderators: *John D. Puskas, New York, NY, and Husam H. Balkhy, Chicago, IL*

- 3:25 p.m. – 3:40 p.m. Advanced Techniques: Y grafts, Sequentials, Multivessel TECAB
Johannes Bonatti, Abu Dhabi
- 3:40 p.m. – 3:55 p.m. The Case for Hybrid Coronary Revascularization
Nirav C. Patel, New York, NY
- 3:55 p.m. – 4:10 p.m. Examples of Hybrid cases; Advanced (Complex) Hybrids
Francis P. Sutter, Wynnewood, PA
- 4:10 p.m. – 4:25 p.m. Elements of a successful Hybrid Program and The NIH trial
John D. Puskas, New York, NY
- 4:25 p.m. – 4:45 p.m. Panel Discussion
- 4:45 p.m. – 5:00 p.m. Final Comments and Adjournment**