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

March 23-24, 2018
Chicago, IL

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

Day 1
Friday, March 23, 2018 (7:00 a.m. – 6:00 p.m.)

7:00 a.m. – 7:30 a.m. REGISTRATION / BREAKFAST

7:30 a.m. – 9:00 a.m. Session 1: Building a Foundation for Robotic Cardiac Surgery

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

7:35 a.m. – 7:50 a.m. Current Clinical and 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 and 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

9:20 a.m. – 10:55 a.m. Session 2: Robotic Mitral Valve Procedural Details
Moderators: Evelio Rodriguez, Nashville, TN, and Vinay Badhwar, Morgantown, WV

Agenda and speakers are subject to change.

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<th>Speaker and Location</th>
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<tr>
<td>2:30 p.m. – 2:45 p.m.</td>
<td>Robotic MIDCAB: How I Do It and Lessons from a 15-Year Experience</td>
<td>Daniel M. Bethencourt, Long Beach, CA</td>
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<td>2:45 p.m. – 3:00 p.m.</td>
<td>Robotic MIDCAB: The ‘Micro’ Thoracotomy Approach</td>
<td>Francis P. Sutter, Wynnewood, PA</td>
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<td>3:00 p.m. – 3:15 p.m.</td>
<td>Robotic MIDCAB: Making the Transition from an Off-Pump Coronary Artery Bypass Mindset</td>
<td>John D. Puskas, New York, NY</td>
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<td>3:15 p.m. – 3:30 p.m.</td>
<td>Robotic MIDCAB: Postop Considerations, Fast Track, Pain Management</td>
<td>Nirav C. Patel, New York, NY</td>
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<td>3:30 p.m. – 3:50 p.m.</td>
<td>Panel Discussion</td>
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<td>3:50 p.m. – 4:10 p.m.</td>
<td>BREAK</td>
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<td>4:10 p.m. – 6:00 p.m.</td>
<td>Session 4: Mitral Valve Repair Techniques and Avoiding Complications</td>
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<td>Moderators: Douglas A. Murphy, Atlanta, GA, and T. Sloane Guy, New York, NY</td>
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<td>4:10 p.m. – 4:25 p.m.</td>
<td>Robotic Mitral Valve Repair: Resectional Techniques</td>
<td>Joseph A. Dearani, Rochester, MN</td>
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<td>4:25 p.m. – 4:40 p.m.</td>
<td>Robotic Mitral Valve Repair: Non-Resectional Techniques</td>
<td>T. Sloane Guy, New York, NY</td>
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<td>4:40 p.m. – 4:55 p.m.</td>
<td>Robotic Mitral Valve Replacement</td>
<td>Branden R. Reynolds, Spokane, WA</td>
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<td>4:55 p.m. – 5:10 p.m.</td>
<td>Video Session: Complex Robotic Mitral Valve Repairs</td>
<td>Vinay Badhwar, Morgantown, WV</td>
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<td>5:10 p.m. – 5:25 p.m.</td>
<td>Avoiding Complications in Robotic Mitral Valve Repair</td>
<td>A. Marc Gillinov, Cleveland OH</td>
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<tr>
<td>5:25 p.m. – 5:40 p.m.</td>
<td>When, Why, and How to Convert from Robotics to Open Surgery</td>
<td>Simon Maltais, Rochester, MN</td>
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<tr>
<td>5:40 p.m. – 6:00 p.m.</td>
<td>Panel Discussion</td>
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**Day 2**  
Saturday, March 24, 2018 (7:00 a.m. – 5:00 p.m.)

<table>
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<th>Time</th>
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<td>7:00 a.m. – 7:30 a.m.</td>
<td>REGISTRATION / BREAKFAST</td>
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| 7:30 a.m. – 9:05 a.m. | Session 5: TECAB  
**Moderators:** Husam H. Balkhy, Chicago, IL, and Johannes Bonatti, Abu Dhabi, United Arab Emirates |
| 7:30 a.m. – 7:45 a.m. | The Case for TECAB: Value of Robotic TECAB versus Robotic MIDCAB  
Johannes Bonatti, Abu Dhabi, United Arab Emirates |
| 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: 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, United Arab Emirates |
| 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                                                                  |
| 9:25 a.m. – 11:00 a.m. | Session 6: Robotic Intracardiac Surgery, More than Just the Mitral!  
**Moderators:** Douglas A. Murphy, Atlanta, GA, and 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 and Cardiac Tumor Resection  
Branden R. Reynolds, Spokane, WA |

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10:25 a.m. – 10:40 a.m. Postoperative Management
Joseph A. Dearani, Rochester, MN

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

11:00 a.m. – 12:40 p.m. Breakout Sessions: Procedure Demonstrations

Station 1: Live Simulation/Demonstration
Robotic Mitral Valve Repair
Douglas A. Murphy, Atlanta, GA

Station 2: Live Simulation/Demonstration
Robotic TECAB
Husam H. Balkhy, Chicago, IL

Station 3: Live Simulation/Demonstration
Robotic 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

1:30 p.m. – 3:05 p.m. Session 7: Robotic Coronary Artery Bypass: Avoiding Problems
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/Minithoracotomy
Francis P. Sutter, Wynnewood, PA

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

2:00 p.m. – 2:15 p.m. Robotic Coronary Surgery: Intraoperative 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 Beating Heart TECAB: Stabilizer, Hand-Sewn Anastomosis Robotic Coronary Surgery: Avoiding Postoperative 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

3:25 p.m. – 4:45 p.m.  Session 8: Advanced Robotic Coronary Artery Bypass Concepts
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, Sequential, Multivessel TECAB
Johannes Bonatti, Abu Dhabi, United Arab Emirates

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

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