

**ROCKY MOUNTAIN VALVE SYMPOSIUM
ROCKY XXX
Missoula, Montana
July 21-22, 2022**

Heart Team Approach to Mitral and Tricuspid Valves

COURSE DESCRIPTION

This is the thirtieth in a series of symposia sponsored by the International Heart Institute of Montana. The two-day conference will address surgical techniques, imaging, minimally invasive approaches, and interventional therapies in mitral and tricuspid valve disease management. An interactive didactic lecture format will be utilized in combination with case studies, panel discussions and debates.

The course is designed to engage participants in discussions, debates and potential controversies combined with practical hands-on workshop sessions demonstrating mitral and tricuspid valve repair and imaging techniques.

This course is intended for cardiac surgeons, interventional cardiologists, echo-cardiologists, anesthesiologists, internists, nurses, physician assistants and all health care professionals involved in the evaluation, diagnosis and/or management of patients with mitral and tricuspid valve disease.

COURSE OBJECTIVES

Upon completion of this activity, attendees should be able to:

- Discuss the issues and limitations in the evaluation and treatment of mitral and tricuspid valve disease.
- Evaluate the usefulness and limitations of advanced imaging techniques in assessing and treating mitral and tricuspid valve disease.
- Describe surgical repair techniques of mitral and tricuspid valve disease.
- Discuss percutaneous intervention therapy in the treatment of mitral and tricuspid valve disease.
- Discuss controversial issues, emerging techniques, and future directions.
- Demonstrate advanced mitral valve repair techniques utilizing an isolated porcine heart.
- Demonstrate the application of advanced imaging techniques.

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PROGRAM DIRECTORS

**Joseph Schmoker, MD, Bruce Bollen, MD, Thomas Gleason, MD,
Burkhard Mackensen, MD, PhD, John Messenger, MD, Tod Maddux, MD**

**FACULTY
CARDIAC SURGERY**

**Michael Acker, MD
University of Pennsylvania**

**Clifford Barlow, MD
University Hospital South Hampton, UK**

**G. Randall Green, MD, JD, MBA
SONY Upstate University Hospital**

**Gerald Lawrie, MD
Baylor University**

**Douglas Murphy, MD
Emory University**

**D. Craig Miller, MD
Stanford University**

**Vinayak Bapat, MD
Columbia University**

**Thomas Gleason, MD
University of Maryland**

**Mark Groh, MD
Asheville Heart**

**Marc Moon, MD
Texas Heart Institute**

**Joseph Schmoker, MD
International Heart Institute**

CARDIOLOGY

**Joao Cavalcante, MD
School of Medicine Minneapolis**

**Tod Maddux, MD
International Heart Institute**

**John Messenger, MD
University of Colorado**

**Muhamed Saric, MD, PhD
New York University**

**Joshua Cooper, MD
Temple University**

**James McCabe, MD
University of Washington**

**Michael Reed, MD
International Heart Institute**

**Daniel Spoon, MD
International Heart Institute**

CARDIAC ANESTHESIOLOGY

Bruce Bollen, MD
Missoula Anesthesiology

G. Burkhard Mackensen, MD, PhD
University of Washington

Douglas Shook, MD
Brigham and Women's Hospital

GUEST LECTURER

Joshua Christensen, MD
Providence Saint Patrick Hospital

ROCKY MOUNTAIN VALVE SYMPOSIUM
Thursday, July 21, 2022
Heart Team Approach to Mitral and Tricuspid Valves: “Degenerative”

7:25	Welcome	Joseph Schmoker, MD
	Session 1: Pathophysiology and Imaging	Moderator: Bruce Bollen, MD
7:30	Barlow’s Mitral Valve Disease: A Personal Perspective	Clifford Barlow, MD
7:50	State of the Art: Echo Imaging of Degenerated MV	Douglas Shook, MD
8:10	Mitral Anatomy: The Surgeons Perspective	Gerald Lawrie, MD
8:30	Mitral Annular Dynamics and Ring Sizing	D. Craig Miller, MD
8:50	Myxomatous Disease Pathophysiology: Timing of Intervention	Muhamed Saric, MD, PhD
9:10	Update on Multimodal Imaging for Mitral Valve	Joao Cavalcante, MD
9:30	Panel: Mitral Annuloplasty: Rings-Full vs. Partial; Flexible vs. Rigid Drs. Clifford Barlow, Gerald Lawrie, D. Craig Miller, Marc Moon	
9:50	BREAK	
	Session 2: Surgical Techniques	Moderator: Joseph Schmoker, MD
10:00	Myxomatous MV “100% Reparability”: Mission Accomplished	Gerald Lawrie, MD
10:20	“The French Correction” - Resection: Still the Gold Standard	Marc Moon, MD
10:40	Barlow’s Mitral Valve Disease: Complex Repair VS Simple Ring	Clifford Barlow, MD
11:00	Duran Lecture: The Mitral Valve: What We Have Learned in 30 Years	D. Craig Miller, MD
11:30	Panel: The Franco-American “Quasi War”: Resect or Respect Drs. Gerald Lawrie, D. Craig Miller, Marc Moon, Douglas Murphy	
12:00	Lunch	
	Session 3: Approaches to the Mitral Valve	Moderator: Marc Moon, MD
1:00	Minimally Invasive Right Thoracotomy: An Adaptable Operation	Joseph Schmoker, MD
1:20	Total Robotic “LEAR” Approach for All Things: The Atlanta Experience	Douglas Murphy, MD
1:40	Why Sternotomy is Still My Approach	Thomas Gleason, MD

Thursday, July 21, 2022
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Session 4: High Risk

Moderator: Burkhard Mackensen, MD, PhD

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| 2:00 | High Risk MV Cases and Redo MV Repair: Against All Odds | Marc Moon, MD |
| 2:20 | Dealing with MAC: When is Enough Enough? | G. Randall Green, MD, JD, MBA |
| 2:40 | Percutaneous Mitral Valve in Native Replacement | James McCabe, MD |
| 3:00 | Beyond Everest: TEER for Myxomatous Disease Outside of A2/P2? | James McCabe, MD |
| 3:20 | Transcatheter Mitral Valve-in-Valve/Valve-in-Ring | John Messenger, MD |
| 3:40 | Panel: Mitral Valve Centers of Excellence: How Do We Define?
Drs. D. Craig Miller, Thomas Gleason, Marc Moon, James McCabe, John Messenger | |

4:10 BREAK

Session 5: Lab and Workshop

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| 4:20 | 1. Mitral Valve Repair with NeoChords | Gerald Lawrie, MD |
| | 2. Anatomy, multimodal imaging techniques, and technical approaches to the interventional mitral valve | |
| | Drs. Mackensen, Shook, McCabe, Saric, Cavalcante, Bollen | |

5:30 ADJOURN

ROCKY MOUNTAIN VALVE SYMPOSIUM

Friday, July 22, 2022

Heart Team Approach to Mitral and Tricuspid Valves: “Functional”

Session 6: Repair/Replace

Moderator: Michael Reed, MD

- 7:30 Functional Secondary MR: Identifying Etiologies and Reparability Overview of Functional MR (Ischemic and Non-Ischemic) **Burkhard Mackensen, MD, PhD**
- 7:50 Disproportionate vs. Proportionate Functional MR **Muhamed Saric, MD, PhD**
- 8:10 Medical Treatment of Functional MR: Where are We Now
Bi V Pacing: Where Does it Fit in the Algorithm? **Joshua Cooper, MD**
- 8:30 Percutaneous Mitral Valve Repair for Functional MR and beyond **John Messenger, MD**
- 8:50 MV Surgery after Failed MitraClip: TEER Should it be Offered?
When and How to Mitigate Risks and Repair **Gerald Lawrie, MD**
- 9:10 Replace or Repair: Functional MR **Michael Acker, MD**
- 9:30 Cardiothoracic Trials Network: Subgroup Analysis Ischemic “Repair” Surgical **Michael Acker, MD**
- 9:50 **Panel: Long Term Results: Percutaneous Functional MR Therapies**
Drs. Michael Acker, Vinayak Bapat, Thomas Gleason, Gerald Lawrie,
Tod Maddux, James McCabe

10:20 BREAK

Session 6 (cont.): Repair/Replace

Moderator: Tod Maddux, MD

- 10:40 Emerging Percutaneous Mitral Valve Repair Therapies/ Replacement Therapies **Vinayak Bapat, MD**
- 11:00 Atrial Functional MR and TR **Douglas Shook, MD**
- 11:20 What to do with Atrial Functional MR: Surgery vs TEER **John Messenger, MD**
- 11:40 Mitral Valve Replacement: Tissue vs. Mechanical **Thomas Gleason, MD**
- 12:00 **Panel: Emerging Technologies: Decision making in non ischemic functional MR. Atrial Functional MR - Surgery VS Interventional Today and in the Future**
Drs. Michael Acker, Vinayak Bapat, John Messenger, Tod Maddux, Burkhard Mackensen,
Gerald Lawrie

12:30 Lunch

Friday, July 22, 2022
Heart Team Approach to Mitral and Tricuspid Valves: “Functional”

Session 7: Tricuspid

Moderator: Daniel Spoon, MD

- 1:30 State of the Art: Echocardiographic Imaging of the Tricuspid Valve **Burkhard Mackensen, MD, PhD**
- 1:50 Percutaneous Tricuspid Valve: A New Frontier **James McCabe, MD**
- 2:10 Percutaneous Tricuspid Valve Trials **Joao Cavalcante, MD**
- 2:30 **Panel: Transcatheter Tricuspid Emerging Technologies: Unique Challenges**
Drs. Vinayak Bapat, John Messenger, James McCabe, Burkhard Mackensen

Session 8: Endocarditis

Moderator: Thomas Gleason, MD

- 3:00 Endocarditis: Current Outcomes of Medical Therapy **Joshua Christensen, MD**
- 3:20 Endocarditis Surgery: Operative Techniques and the Commando Procedure **Marc Moon, MD**
- 3:40 Tricuspid Valve Endocarditis: “I Never Operate” **Mark Groh, MD**
- 4:00 **Panel: The Ethics of Performing Surgery on IV Drug Abusers with Endocarditis**
Second, Third, First Operation?
Drs. Joshua Christensen, Marc Moon, Mark Groh, Randall Green

4:20 **BREAK**

Session 9: Workshop

- 4:30 Anatomy, Multimodal Imaging Techniques, and technical approaches to the Interventional Tricuspid Valve
Drs. Mackensen, Shook, McCabe, Saric, Cavalcante, Bollen

5:30 **Adjourn**