

**ROCKY MOUNTAIN VALVE SYMPOSIUM
ROCKY XXIX
Missoula, Montana
July 18-19, 2019**

The Heart Team Approach to the Aortic Valve

COURSE DESCRIPTION

This is the twenty-ninth in a series of symposia sponsored by the International Heart Institute of Montana Foundation. The two day conference will address surgical techniques, imaging, minimally invasive approaches, and interventional therapies in aortic 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 aortic valve repair and imaging techniques.

This course is intended for cardiac surgeons, interventional cardiologists, echocardiologists, anesthesiologists, internists, nurses, physician assistants and all health care professionals involved in the evaluation, diagnosis and/or management of patients with aortic 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 aortic valve disease.
- Evaluate the usefulness and limitations of advanced imaging techniques in assessing and treating aortic valve disease.
- Describe surgical repair techniques of aortic valve disease.
- Discuss percutaneous intervention therapy in the treatment of aortic valve disease.
- Discuss controversial issues, emerging techniques and future directions.
- Demonstrate advanced aortic valve repair techniques utilizing an isolated porcine heart.

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ROCKY XXIX

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PROGRAM DIRECTORS

**Thomas Gleason, MD, Stewart Long, MD, G. Burkhard Mackensen, MD, PhD,
Tod Maddux, MD, Joseph Schmoker, MD**

FACULTY

CARDIAC SURGERY

**Joseph Bavaria, MD
University of Pennsylvania**

**Thomas Gleason, MD
University of Pittsburgh**

**Eric Kirker, MD
Providence Heart Institute**

**Stewart Long, MD
International Heart Institute**

**G. Michael Deeb, MD
University of Michigan**

**Leland Siwek, MD
Providence Sacred Heart**

**Matthew Forrester, MD
Providence Sacred Heart**

**Mark Groh, MD
Asheville Heart**

**Emmanuel Lansac, MD, PhD
Institut Mutualiste Montsouris**

**Gene Parrino, MD
Ochsner Clinic Foundation**

**Joseph Schmoker, MD
International Heart Institute**

CARDIOLOGY

**Danny Dvir, MD
University of Washington**

**Tod Maddux, MD
International Heart Institute**

**Michael Reed, MD
International Heart Institute**

**Daniel Spoon, MD
International Heart Institute**

**David Holmes, MD
Mayo Clinic**

**Amit Patel, MD
University of Chicago**

**Maurice Sarano, MD
Mayo Clinic**

CARDIAC ANESTHESIOLOGY

**Bruce Bollen, MD
Missoula Anesthesiology**

**G. Burkhard Mackensen, MD, PhD
University of Washington**

ROCKY MOUNTAIN VALVE SYMPOSIUM
Thursday, July 18, 2019
The Heart Team Approach to the Aortic Valve

WELCOME

Session 1: Aortic Root

Moderator: Joseph Schmoker, MD

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| 7:30 | Aortic Root Geometry and Physiology | Joseph Bavaria, MD |
| 8:00 | Aortic Valve-Sparing Root Replacement: Remodeling With External Ring | Emmanuel Lansac, MD, PhD |
| 8:30 | Aortic Valve-Sparing Root Replacement: Reimplantation Technique | Joseph Bavaria, MD |
| 9:00 | Aortic Root Replacement: Stentless Prosthesis | Thomas Gleason, MD |

9:30 BREAK

Session 2: Bicuspid Aortic Valve

Moderator: Leland Siwek, MD

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|-------|--|--------------------------|
| 10:00 | Modified (Reinforced) Ross Procedure | Matthew Forrester, MD |
| 10:30 | Repair with Expandable Ring | Emmanuel Lansac, MD, PhD |
| 11:00 | Repair with Type 1→Type 0 Conversion | Thomas Gleason, MD |
| 11:30 | Duran Lecture: Conceptual Development of the Expandable Ring and Update on the CAVIAAR Registry | Emmanuel Lansac, MD, PhD |

12:00 LUNCH

Session 3: Surgical Aortic Valve Replacement

Moderator: Stewart Long, MD

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| 1:00 | Aortic Annulus Enlargement: When and How | Mark Groh, MD |
| 1:30 | Improving Efficiency of Mini-AVR: Single Dose Crystalloid Cardioplegia | Joseph Schmoker, MD |
| 2:00 | Rapid Deployment Valves: Current Status | Gene Parrino, MD |
| 2:30 | Mechanical vs. Bioprosthetic Valve Durability: What is the Data? | Thomas Gleason, MD |
| 3:00 | Bioprosthetic Valve Choice for Future Valve-in-Valve | G. Michael Deeb, MD |
| 3:30 | Panel Discussion: Small Aortic Root Annulus | Faculty |
| 4:00 | Update on Low Risk TAVR Trials: What Will Your Surgical Aortic Valve Practice Look Like? | G. Michael Deeb, MD |

BREAK

Session 4: Lab/Workshop

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| 4:30 | 1. Valve Sparing Root Replacement | Joseph Bavaria, MD, Emmanuel Lansac, MD, PhD |
| | 2. 3D Cardiac CT Imaging: TAVR & TMVR | Burkhard Mackensen, MD, PhD, Bruce Bollen, MD |

5: 45 **ADJOURN**

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Session 5 **Moderator: Daniel Spoon, MD**

7:30	Pathophysiology of Aortic Stenosis: Decision Making with Moderate MR	Maurice Sarano, MD
8:00	Low Flow-Low Gradient AS: Evaluation by MRI	Amit Patel MD
8:30	Subclinical Leaflet Thrombosis: What Does it Mean?	David Holmes, MD
9:00	Cerebral Protection Strategies During TAVR	Mark Groh, MD

9:30 **BREAK**

Session 6 **Moderator: Michael Reed, MD**

10:00	Alternative Access Approaches in TAVR	Eric Kirker, MD
10:30	TAVR in Native AI, TAVR in Homograft: Future and Now	David Holmes, MD
11:00	Coronary Obstruction in TAVR and Prevention by BASILICA	Burkhard Mackensen, MD, PhD
11:30	Prosthetic Ring Fracture for TAVR Implantation	Danny Dvir, MD
12:00	4D MRI Flow Assessment: Bicuspid Valve Pre & Post-Operative	Amit Patel, MD
12:30	Panel Discussion: The Next Frontier in TAVR	Faculty

1:00 **LUNCH**

Session 7 **Moderator: Tod Maddux MD**

2:00	Update on TAVR Durability	Gene Parrino, MD
2:30	TAVR Valve in Valve: Insights from the VIVID Registry	Danny Dvir, MD
3:00	TVT Registry Update	Faculty
3:30	Case Presentations "My Most Challenging Cases"	Faculty

4:30 **ADJOURN**