2ND NORTH AMERICAN
Aortic Valve Repair Symposium
A C M E - C E R T I F I E D C O U R S E

Friday-Saturday, September 9-10, 2016
Sofitel Philadelphia
120 South 17th Street
Philadelphia, PA 19103

In Conjunction With

Endorsed by:

The Society of Thoracic Surgeons

Course Director:
Joseph E. Bavaria, MD

Co-Directors:
Munir Boodhwani, MD, MMSc
Prashanth Vallabhajosyula, MD, MS
John Augoustides, MD

www.avrepairsymposium.org
The purpose of this activity is to provide in-depth analysis and procedural understanding of both bicuspid and 3-cusp aortic valve repair and valve sparing aortic root surgery. Additionally, this symposium will provide technical and conceptual pearls related to aortic valve repair. Faculty presentations will constitute deep-dive sessions addressing valvular and aortic root pathology in the context of aortic valve preservation, with discussion panels focusing on the technical nuances and detailed differences in aortic valve repair and valve sparing aortic root techniques. Live-on-tape sessions will be complemented with comprehensive didactic coverage of the clinical, technical, and imaging tools required to develop a successful aortic valve repair program. This symposium is especially designed for cardiovascular surgeons, cardiologists, cardiac anesthesiologists, residents and fellows with an interest in aortic valve repair.

**Learning Objectives**

Upon completion of the activity, the participant should be able to:

- Apply learned techniques toward repairing diseased bicuspid and 3-cusp aortic valves
- Describe the functional anatomy of the aortic valve complex
- Employ the echocardiographic approach to aortic valve repair as a guide to surgical decision-making
- Explain the principles and advantages of native aortic valve repair for both bicuspid and 3-cusp valves
- Review the essential technical details for optimal surgical repair of the native aortic valve
- Discuss the impact that geometric aortic valve differences have on valve repair outcomes and reconstructive strategies
- Review both medical and surgical guideline-directed therapies for Aortic Valve Insufficiency (A.I.)

**Hosting Department**

The 2nd North American Aortic Valve Repair Symposium is hosted by the Department of Surgery, Division of Cardiovascular Surgery at the University of Pennsylvania.
How to Register
If you are registering with a credit card, please register online at www.penncmeonline.com, then clicking on CME Activities/Live Events. To pay by check, complete the registration form and mail it in with your check. We cannot accept faxed or mailed registration forms with credit card information. Please see the top of the registration form for mailing information. All registrations will be confirmed in writing if your registration form and fee are received by August 26, 2016.

Cancellation and Refund Policy
In order to process refunds for course withdrawals, cancellations must be received in writing by August 26, 2016 (subject to a service charge of 10% of the registration fee but not less than $15.00). No refunds will be issued after August 26, 2016. The University reserves the right to cancel or postpone any course due to unforeseen circumstances. In the event of cancellation or postponement, the University will refund registration fees but is not responsible for related costs or expenses to participants, including cancellation fees assessed by hotels, airlines, and travel agencies.

Meeting Location
The 2nd North American Aortic Valve Repair Symposium will be held Friday-Saturday, September 9-10, 2016 at the Sofitel Philadelphia, 120 South 17th Street, Philadelphia, PA 19103. For more information on Sofitel Philadelphia, please visit their website at: http://www.sofitel-philadelphia.com/en or to reach them directly, please call 215-569-8300.

The Sofitel Philadelphia is offering a special group rate (single or double-occupancy) of $205.00 per night. These rates do not include the 15.5% sales and occupancy tax. The special room rate is only available until Thursday, August 18, 2016 or until the block has filled (whichever comes first). Rates are subject to availability once the room block has filled. Please call the Sofitel Philadelphia directly at 215-569-8300 and identify yourself as a participant of the “University of Pennsylvania 2nd AVRS 2016” in order to receive the discounted overnight room rate. Please visit http://tinyurl.com/h38q3gc in order to make your reservations online.

Parking: The Sofitel Philadelphia offers valet-only parking. The daily parking rate is $36. For guests staying overnight Monday-Thursday, the rate is $50.24 and guests staying overnight Friday-Saturday, the rate is $45.33. The symposium will not validate or discount any parking expenses.
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KEYNOTE SPEAKER
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Clinic for Cardiac and Thoracic Vascular Surgery
Lübeck, Germany

GUEST SPEAKERS
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Department of Cardiothoracic Surgery
University of Pittsburgh
Pittsbugh, PA
AGENDA

DAY 1 – Friday, September 9, 2016

6:45 AM – 7:30 AM  Registration/Breakfast

7:30 AM – 7:45 AM  Welcoming Remarks
Joseph E. Bavaria, MD
Munir Boodhwani, MD, MMSc, FRCSC

MORNING SESSION 1
BASIC CONCEPTS IN AORTIC VALVE PRESERVATION AND REPAIR
Moderators: Joseph E. Bavaria, MD and Munir Boodhwani, MD, MMSc, FRCSC

7:45 AM – 8:00 AM  Intraoperative Echocardiographic Analysis of Aortic Valve and Root
John G. Augoustides, MD, FASE, FAHA

8:00 AM – 8:15 AM  Aortic Valve Anatomy and Function
Karen M. Kim, MD

8:15 AM – 8:30 AM  Review of ACC/AHA Guidelines for Management of Aortic Insufficiency: Pitfalls and Nuances
Robert O. Bonow, MD

8:30 AM – 8:45 AM  Surgical Indications for Root and Ascending Aortic Disease: Reconciling the American, Canadian, and European Guidelines
Lars Svensson, MD, PhD

8:45 AM – 9:05 AM  Valve Sparing Root Replacement: Reimplantation Technique - Step by Step
Munir Boodhwani, MD, MMSc, FRCSC

9:05 AM – 9:25 AM  Valve Sparing Root Replacement: Remodeling Technique and External Ring Annuloplasty
Emmanuel Lansac, MD, PhD

9:25 AM – 10:00 AM  Panel Discussion

10:00 AM – 10:30 AM  Break

MORNING SESSION 2
SURGICAL APPROACH TO AORTIC INSUFFICIENCY
Moderators: Joseph E. Bavaria, MD and Joseph S. Coselli, MD

10:30 AM – 10:50 AM  Structural Mechanisms of Aortic Insufficiency and Surgical Approach to Aortic Valve Repair
Munir Boodhwani, MD, MMSc, FRCSC
Benjamin Sohmer MD, MEd, FRCP

10:50 AM – 11:05 AM  Annular Stabilization Techniques in the Context of Aortic Valve Repair
Prashanth Vallabhajosyula, MD, MS

11:05 AM – 11:45 AM  Aortic Valve Assessment and Repair – Case Based Presentations
(Echo and Surgery; Ottawa/Penn Faculty)
Munir Boodhwani, MD, MMSc, FRCSC, Emmanuel Lansac, MD, PhD, Bradley Lesnower, MD, FACS, Maria Rodriguez, MD, Benjamin Sohmer MD, MEd, FRCP

11:45 AM – 11:50 AM  Introduction to Keynote Speaker
Hans-Hinrich Sievers, MD
Joseph E. Bavaria, MD

11:50 AM – 12:15 PM  KEYNOTE LECTURE
An Individualized Approach to the Ascending Aorta in Bicuspid Aortic Valve Disease
Hans-Hinrich Sievers, MD

12:15 PM – 12:40 PM  Panel Discussion

12:40 PM – 1:00 PM  Pick-up Lunch

1:00 PM – 2:00 PM  Working Lunch with Case Presentations by University of Pennsylvania Aortic Fellows
- Complex BAV Repair with External Aortic Ring: Triangular Leaflet Resection with Primary Closure and Extensive Decalcification
  Christine Herman, MD
- Valve Sparing Root Reimplantation of a Unicusp Valve Variant: 180°/180° Geometric Orientation
  Ibrahim Sultan, MD
- Valve Sparing Root Reimplantation of Type I BAV: 150°/210° Geometric Orientation
  George Arnaoutakis, MD
- Complex BAV Leaflet Repair with Valve Sparing Root Reimplantation: 180°/180° Geometric Orientation
  Prashanth Vallabhajosyula, MD, MS
- Tricusp Aortic Valve Repair with Valve Sparing Root Reimplantation
  George Arnaoutakis, MD

2:00 PM – 2:10 PM  Break

AFTERNOON SESSION 1
BICUSPID AORTIC VALVE REPAIR – DEEP DIVE
Moderators: Munir Boodhwani, MD, MMSc, FRCSC and Emmanuel Lansac, MD, PhD

2:10 PM – 2:25 PM  Geometric Orientation of the Aortic Neo-root in Type I Bicuspid Aortic Valve Sparing Root Reimplantation
Joseph E. Bavaria, MD

2:25 PM – 2:40 PM  Bicuspid Aortic Valve Repair in the Setting of Severe Aortic Insufficiency: Live-in-box Presentation
Edward Chen, MD
DAY 2 – Saturday, September 10, 2016

7:00 AM – 7:45 AM  Registration/Breakfast

7:45 AM – 8:00 AM  Opening Remarks
Joseph E. Bavaria, MD

MORNING SESSION 1
ADDITIONAL CONCEPTS IN AORTIC VALVE REPAIR
Moderators: Edward P. Chen, MD and Wilson Y. Szeto, MD

8:00 AM – 8:15 AM  Three-dimensional Echocardiography for Aortic Valve Anatomy
Benjamin Söhmer MD, MEd, FRCPC

8:15 AM – 8:30 AM  Trileaflet Aortic Valves with Root Dilatation and Severe AI: Live-in-box
Munir Boodhwani, MD, MMSc, FRCSC
Joseph E. Bavaria, MD

8:30 AM – 8:45 AM  Aortic Valve Sparing Surgery in Emergent Situations Live-in-box Presentation and Outcomes Analysis
Prashanth Vallabhajosyula, MD

8:45 AM – 8:50 AM  Introduction to Honorary Speaker: Gebrine El Khoury, MD
Joseph E. Bavaria, MD

8:50 AM – 9:20 AM  HONORARY LECTURE
Managing the AV Annulus: Experience Over Two Decades
Gebrine El Khoury, MD

9:20 AM – 9:35 AM  When NOT to do Aortic Valve Repair
Joseph E. Bavaria, MD

9:35 AM – 9:50 AM  Aortic Annuloplasty, Effective Height and Geometric Height to Standardize Cusp Repair
Emmanuel Lansac, MD, PhD

9:50 AM – 10:15 AM  Panel Discussion

10:15 AM – 10:45 AM  Break

10:45 AM – 10:55 AM  Unicuspid Aortic Valve Repair: Live-in-box
Munir Boodhwani, MD, MMSc, FRCSC

10:55 AM – 11:20 AM  Cased-based Presentation of Aortic Valve Repair Failures: Echocardiographic and Surgical Evaluation
John Augoustides, MD, FASE, FAHA, Munir Boodhwani, MD, MMSc, FRCSC, Emmanuel Lansac, MD, PhD, Benjamin Söhmer, MD, Med, FRCPC, Prasanth Vallabhajosyula, MD, MS

11:20 AM – 12:05 PM  Managing Cusp Restriction and Calcification
Gebrine El Khoury, MD

12:05 PM – 12:50 PM  Panel Discussion and Closing Remarks
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If you are registering using your credit card, please register online at: www.penncmeonline.com and click on CME Activities/Live Events.

**Questions? Contact us at:**

Phone: 215-898-6400 or 215-898-8005 • penncme@mail.med.upenn.edu

**Please note we are unable to accept faxed registration forms.**

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**Registration Fee** (pre-payment is required to be officially registered)

- ☐ $850.00 for Physicians and Industry
- ☐ $700.00 for Physicians who are members of the Society of Thoracic Surgeons (STS)
- ☐ $300.00 Healthcare Professionals, Residents and Fellows

**Payment Method**

- If you are paying by credit card, please register online at www.penncmeonline.com and click on CME Activities/Live Events.
- If you are paying by check, you may mail your completed registration form and check made payable to The Trustees of the University of Pennsylvania/CME to:
  
  Conference Coordinator, Perelman School of Medicine at the University of Pennsylvania, Office of Continuing Medical Education 150 Anatomy/Chemistry Building, 3620 Hamilton Walk Philadelphia, PA 19104-6061

- Do not include any credit card information on the registration form or email any credit card information

**Please Note:** Walk-in registrants must bring payment to the program. Seating may be limited for walk-in registrants.
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