

The CME-accredited symposium, **4th North American Aortic Valve Repair Symposium** will be presented Friday - Saturday, September 13 - 14, 2019 at the Sofitel Philadelphia, 120 South 17th Street, Philadelphia, PA 19103. Please review the attached exhibitor agreement and agenda.

Exhibit space is available during this event with a **\$5,000.00 per 8ft table (Platinum Level) or \$3,000 per 4ft table (Gold Level)**. Each exhibitor will receive a standard 4' or 8' table. A tablecloth and electric will be provided, if needed. Your company will be acknowledged in the conference materials, on the signage and by the course director(s) during the welcome address. Exhibits will be set-up in the Ballroom foyer. This high-traffic area is designated for breakfast and breaks. We anticipate approximately 200 attendees and speakers. **Please act quickly as space is limited!**

Program Overview

The purpose of this educational 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 for developing a successful aortic valve repair program.

If you are interested in reserving exhibit space, please complete and sign the attached Exhibitor Agreement and return it along with your exhibit fee to:

Crystal Mathis
Conference/Project Manager
Continuing Medical and Interprofessional Education at Penn Medicine
3620 Hamilton Walk, 150 Anatomy/Chemistry
Philadelphia, PA 19104-6061
Phone: 215-898-8005/Fax: 215-898-1888
Email: ycry@upenn.edu
<https://upenn.cloud-cme.com/avrs2019>

Exhibitor Agreement

4th North American Aortic Valve Repair Symposium
Friday - Saturday, September 13 -14, 2019

Company Name: _____ ("Exhibitor")

(How You Will be Acknowledged)

- Platinum Level Exhibitor: \$5,000.00 per 8' Tabletop Exhibit**
 Gold Level Exhibitor: \$3,000.00 per 4' Tabletop Exhibit

of Tables Requested _____ **@ \$** _____ **,000.00 each = \$** _____

Representative Names (*Tabletop exhibits are restricted to two representatives per table*)

1) _____ 2) _____

Email: _____ Email: _____

Phone: _____ Phone: _____

Fax: _____ Fax: _____

Terms & Conditions

All exhibitors are provided with an 8' table and chairs. Set-up begins on Friday - Saturday, September 13 - 14, 2019 at 5:45 am. If you require additional set-up time, please contact us, and we will assist in any way we can. Exhibitors should expect participants to begin arriving at 6:45 am. Although the exhibit area is secured, vendors are discouraged to leave any valuable items, such as laptops or phones unattended.

Breakdown of exhibits must be completed by 3:00 pm on Saturday, September 14, 2019.

Display Information

Exhibitors are responsible for supply, set-up, takedown, delivery, and any additional costs of display needs beyond the 8' skirted table. Please let us know what your needs are so that we can accommodate your display:

Will you be bringing your own tablecloth? Yes No

Will you need electricity for your display? Yes No

Will you bring your own extension cord? Yes No

What type of equipment is being displayed (lights, machines, etc.)? _____

How many pieces of equipment need electricity? _____

Do any machines require any special outlets for operation? Name outlet type: _____

What additional information regarding your exhibit should we know? _____

Meeting Location & Display Details

4th North American Aortic Valve Repair Symposium will be held Friday - Saturday, September 13 - 14, 2019 at the Sofitel Philadelphia, 120 South 17th Street, Philadelphia, PA 19103.

Tables will be designated. Continental breakfast and breaks will be set-up among the exhibits in the foyer. Each exhibitor can expect to receive 4' or 8' skirted table(s) and two chairs. Please be sure your exhibit materials fit within the specs of 4'x8' or 8'x8'. If needed, you are welcome to purchase additional tables.

Overnight Information

A limited number of rooms have been reserved at the [Sofitel Philadelphia](#) at a special group rate of \$269 per night single/double occupancy. Taxes are 15.5% per room per night and are subject to change. We recommend you make a reservation as soon as possible since there are a limited number of rooms available. Please call the Sofitel Philadelphia reservations directly at 215-569-8300. Identify yourself as a "**Penn Medicine 4th AVRS 2019**" participant. This room block is available until **August 15, 2019** or until the block is full.

Attendee Registration

If you would like to attend any or all of the sessions during 14th International Symposium on Ventricular Arrhythmias: Pathophysiology and Therapy, you must complete the registration form either online or by fax or mail and submit payment. Please visit <https://upenn.cloud-cme.com/AVRS2019> for registration and additional conference information. Please note: If you intend to exhibit and attend the conference, then you must also register and pay the conference registration fee.

Shipping Information

(Please label all boxes with the following information)

Sofitel Philadelphia
120 South 17th Street
Philadelphia, PA 19103
Attention: Ansheai Spence-Jones
215-569-8300

HOLD FOR CONFERENCE
Ansheai Spence-Jones
4th AVRS Symposium
September 13 - 14, 2019

[YOUR COMPANY] ♦ [REPRESENTATIVE'S NAME]
Package # _____ of _____

Please do not ship any materials to the venue to arrive before Thursday, September 12, 2019

Payment Methods (check the one that applies):

Check

Make your check payable to the **Trustees of the University of Pennsylvania/CME** and return it with the completed exhibit agreement to the address below (Our Tax ID number is 23-1352685):

Crystal Mathis
Office of Continuing Medical Education
Perelman School of Medicine at the University of Pennsylvania
150 Anatomy Chemistry Building, 3620 Hamilton Walk
Philadelphia, PA 19104

Credit Card (**DO NOT INCLUDE CREDIT CARD INFORMATION ON THIS FORM**)

If paying by Credit Card, you may fax or email this completed form.

Fax: 215-898-1888 or Email: ycry@upenn.edu

You will then be contacted by Crystal Mathis to complete the transaction.

Contact Person: _____

Phone: _____

E-Mail: _____

Questions: [Elizabeth Butler](#): 215-898-6126 or [Crystal Mathis](#) or 215-746-8133

A wire transfer is also available for payment

Please contact Crystal Mathis at ycry@upenn.edu for further instructions

Terms & Conditions

Educational activities in the exhibit area which appear to compete with the scientific program and present research results that are being presented concurrently in the scientific program are prohibited. This includes, but is not limited to, displaying posters or other promotional materials summarizing research results, promoting meeting faculty, or distributing meeting materials such as syllabi, handouts, slides, or invitations.

The only activities which may be appropriate in exhibits are for the purpose of informing meeting participants about an organization and its products and services.

The distribution (either for free or for sale) of educational enduring materials on-site that award CME credit, including but not limited to full-text reprints or copies of articles or journal self-study programs, audiotapes, videotapes, or CD ROMs, is prohibited.

Exhibitor assumes entire responsibility for all claims, losses, costs, expenses, and damages to persons or property, as well as governmental charges or fines and attorney's fees arising out of or caused by Exhibitor's installation, removal, maintenance, occupancy, or use of the exhibition premises or a part thereof.

In addition, Exhibitor does not hold the meeting venue or the University of Pennsylvania responsible for maintaining insurance to cover Exhibitor's property.

By signing below, you agree to the terms and conditions of this agreement.

Authorized Exhibitor Representative

Date

Aortic Valve Repair Symposium

Friday-Saturday, September 13-14, 2019

AGENDA

DAY 1 – Friday, September 13, 2019

- 6:45 AM – 7:45 AM Registration & Continental Breakfast
- 7:40 AM – 7:45 AM Opening the Session:
Critical Challenges Regarding AI Worldwide
Joseph Bavaria, MD
- 7:45 AM – 8:00 AM Opening remarks: Overview of the Symposium
*Joseph E. Bavaria, MD &
Munir Boodhwani, MD*

MORNING SESSION 1

AORTIC ROOT COMPLEX – ANATOMIC AND PHYSIOLOGIC PRINCIPLES GUIDING VALVE REPAIR

Moderators: TBD

- 8:00 AM – 8:15 AM Aortic Valve Anatomy and Function
Karen Kim, MD
- 8:15 AM – 8:30 AM Threshold for Surgical Intervention in Ascending
Aortic Aneurysms: Comparison of American,
Canadian, and European Guidelines
Thoralf Sundt, MD
- 8:30 AM – 8:45 AM MRI Versus Echo in Aortic Insufficiency:
What is the Gold Standard in Quantification?
Paul Fedak, MD & Victor Ferrari, MD
- 8:45 AM – 9:00 AM Natural History of Aortic Insufficiency and
Guidelines for Medical and Surgical Management
Robert Bonow, MD
- 9:00 AM – 9:20 AM Panel Discussion
- 9:20 AM – 9:40 AM Repair Focused Echocardiographic Assessment
of the Aortic Valve and Root
*A. Stephane Lambert, MD &
Benjamin Sohmer, MD*
- 9:40 AM – 10:00 AM Mechanisms of Aortic Insufficiency:
Implications for Valve Repair
Munir Boodhwani, MD, MMSc, FRCSC
- 10:00 AM – 10:20 AM Debate: 45 Year Old Active Male With Severe
Asymptomatic AI: Surgery or Watchful Waiting?
Moderator: *Munir Boodhwani, MD*
Pro Surgery: *Joseph Bavaria, MD*
Watchful Waiting: *Robert Bonow, MD*
- 10:20 AM – 10:40 AM Break

MORNING SESSION 2

SURGICAL APPROACHES TO AORTIC ROOT/VALVE DISEASE

Moderators: TBD?

- 10:40 AM – 11:00 AM Introduction to Aortic Valve Repair –
What's in the Surgeon's Armamentarium?
Joseph Bavaria, MD
- 11:00 AM – 11:20 AM Valve Sparing Root Reimplantation Technique –
Step-by-step Approach
Gebrine El Khoury, MD
- 11:20 AM – 11:40 AM Valve Sparing Root Remodeling Technique –
Step-by-step Approach [Live-in-box]
Hans-Joachim Schäfers, MD
- 11:40 AM – 12:00 AM Annuloplasty Techniques for Isolated
Aortic Valve Repair
Thoralf Sundt, MD
- 12:00 PM – 12:30 PM Focused Session: Learn from the Experts:
Case Presentations
Panel members: *Gebrine El Khoury, MD,
Hans-Joachim Schäfers, MD, Chad Hughes, MD,
Alberto Pochettino, MD, Michael Fischbein, MD,
Munir Boodhwani, MD*
- Case 1: Severe AI, VAJ dilated, aortic root 4.1 cm
 - Case 2: Marfan patient, severe root dilation, no AI
 - Case 3: Cusp prolapse with fenestrations
 - Case 4: Type 1A Ascending aortic aneurysm and moderate AI, non-dilated VAJ
 - 1) Root reimplantation or repair with external ring
 - 2) Remodeling versus reimplantation
 - 3) Valsalva versus straight tube graft
- 12:30 PM – 12:45 PM Panel Discussion

AFTERNOON SESSION 1

- 1:00 PM – 2:15 PM Working Lunch With Debate
Moderators: *Munir Boodhwani, MD &
Prashanth Vallabhajosyula, MD, MS*
Panel: *Joseph Bavaria, MD, Thoralf Sundt, MD,
Robert Bonow, MD, Hans-Joachim Schäfers, MD,
Gebrine El Khoury, MD*
- Debate: Annular ectasia in BAV repair, how best to manage? Remodel with annular ring, external and STJ ring, VSRR, internal annular ring?
- Debate: Debate on factors influencing repair versus replacement – consider thresholds of age, low EF, enlarged left ventricle
- Debate: respect BAV geometry versus forced geometry, and introduction to the new anatomical classification by the El Khoury group
- 2:15 PM – 2:30 PM Break

- 2:30 PM – 2:35 PM Introduction to Keynote Speaker
- 2:35 PM – 3:05 PM **KEYNOTE**
30-year Experience With Aortic Valve Repair – Evolution of Cusp Repair and Root Remodeling Techniques
Hans-Joachim Schäfers, MD

AFTERNOON SESSION 2

TRILEAFLET AORTIC VALVE REPAIR – DEEP DIVE

Moderators: TBD?

- 3:05 PM – 3:20 PM Complex Trileaflet Aortic Valve Repair
Munir Boodhwani, MD
- 3:20 PM – 3:40 PM Valve Sparing Surgery in Aortic Dissection – Indications, Outcomes, Where do you Draw the Line?
Himanshu Patel, MD
- 3:40 PM – 4:00 PM How to Manage Cusp Calcification and Restriction?
Gebrine El Khoury, MD
- 4:00 PM – 4:20 PM Break

AFTERNOON SESSION 3

OUTCOMES AND ALTERNATIVES TO AORTIC VALVE REPAIR

Moderators: TBD?

- 4:20 PM – 4:30 PM Outcomes of Aortic Valve Repair: Focus on Mortality and Valve Related Events
Maral Ouzounian, MD, PhD
- 4:50 PM – 5:00 PM When Repair is not Possible: Outcomes of Biologic Versus Mechanical Prostheses in Young Adults and Outcomes of Preserving Sinus Segment With Ascending Arch Resection
Rita Milewski, MD, PhD
- 5:00 PM – 5:20 PM Ross Procedure in Aortic Insufficiency – When to do it, how to do it
Ismail El-Hamamsy, MD, PhD
- 5:20 PM – 5:30 PM Quality of Life Following Valve Repair Versus Replacement: Is There a Difference?
Nimesh Desai, MD, PhD
- 5:30 PM – 6:00 PM Panel Discussion and Closing Remarks

DAY 2 – Saturday, September 14, 2019

- 7:00 AM – 7:45 AM Registration/Breakfast
- 7:45 AM – 8:00 AM Opening Remarks, Answer Questions on Previous Day's Session With Panel of Experts

MORNING SESSION 1

BICUSPID AORTIC VALVE REPAIR – MASTERCLASS SESSION

Moderators: TBD?

- 8:00 AM – 8:20 AM Anatomy and Classification of Bicuspid Aortic Valve Insufficiency
Laurent De Kerchove, MD
- 8:20 AM – 8:40 AM An Algorithmic Approach to BAV Decision Making (+/- Root Aneurysm)
Joseph E. Bavaria, MD
- 8:20 AM – 8:40 AM BAV Repair Techniques for Type 0, I Valves
Moderator: *Joseph Bavaria, MD*
Case presentations: *Prashanth Vallabhajosyula, MD* & *George Arnaoutakis, MD*
1) Type 0
2) Type I
- 8:40 AM – 8:55 AM BAV Root Reimplantation – Concepts and Case Presentation [Live-in-box]
Munir Boodhwani, MD
- 8:55 AM – 9:10 PM BAV Root Remodeling – Concepts and Case Presentation [Live-in-box]
Hans-Joachim Schäfers, MD
- 9:10 AM – 9:25 AM BAV Repair with External Subannular Aortic Ring [Live-in-box]
Joseph Bavaria, MD
- 9:25 AM – 9:40 AM BAV Repair With Internal Subannular Aortic Ring [Live-in-box]
Chad Hughes, MD
- 9:40 AM – 10:00 AM Panel Discussion
- 10:00 AM – 10:15 AM Break
- 10:15 AM – 10:20 AM Introduction to Honorary Speaker
- 10:20 AM – 10:45 AM **HONORARY LECTURE**
30-year Experience with Bicuspid Aortic Valve Repair and Root Reimplantation Techniques
Gebrine El Khoury, MD
- 10:45 AM – 11:00 AM Mini-Debate: Symmetric or Asymmetric Reconstruction of the BAV
Joseph Bavaria, MD, Michael Fischbein, MD, Munir Boodhwani, MD

- 11:00 AM – 11:20 AM **Alternative Techniques in BAV Repair**
Thomas Gleason, MD
- 11:20 AM – 11:30 AM **Unicuspid Aortic Valve Repair: Should we do it?**
Munir Boodhwani, MD
- 11:30 AM – 11:45 AM **Bentall Aortic Root Procedure – How I do it and Review of the Mayo Clinic Experience**
Alberto Pochettino, MD
- 11:45 AM – 12:00 PM **Conduit Choice in BAV Root Reimplantation/ Remodeling – 2 Schools of Thought: Straight Versus Valsalva grafts**
Michael Fischbein, MD
- 12:00 PM – 12:15 PM **Panel Discussion**
- 12:15 PM – 12:30 PM **Pick-up Lunch**

AFTERNOON SESSION 1

REPAIR FAILURES

- 12:30 PM – 1:30 PM **Working Lunch**
- Controversial and Repair Failure Cases – Audience asks the experts questions about decision making and avoiding pitfalls**
- Moderators: Munir Boodhwani, MD, Joseph Bavaria, MD, Stephane Lambert, MD, John Augoustides, MD, Gebrine El Khoury, MD, Chad Hughes, MD, Alberto Pochettino, MD*
- **TAV Repair Failure –**
Roland Assi, MD & John Augoustides, MD
 - **BAV Repair Failure –**
Joshua Grimm, MD & John Augoustides, MD
 - **Redo Valve Repair – Have we Gone too far? –**
Munir Boodhwani, MD & A. Stephane Lambert, MD
 - **Failure Repair From Internal Ring Pplacement –**
Prashanth Vallabhajosyula, MD
- 1:30 PM – 1:45 PM **Break**



AFTERNOON SESSION 2

REGISTRIES, OUTCOMES WITH AORTIC VALVE REPAIR EXPERIENCE

Moderators: TBD?

- 1:45 PM – 2:05 PM **Outcomes in BAV Repair for Different Root Stabilization Techniques**
Derek Brinster, MD
- 2:05 PM – 2:25 PM **Outcomes Based Arguments for Preservation Versus Resection for BAV Insufficiency – Is the Failing Bicuspid Valve a Pathologic Valve?**
Chad Hughes, MD
- 2:25 PM – 2:45 PM **Outcomes With Root Remodeling Versus Reimplantation**
Maral Ouzounian, MD, PhD
- 2:45 PM – 3:05 PM **Emerging Role of TAVR in Treating Aortic Insufficiency**
Talal Al-Atassi, MD
- 3:05 PM – 3:25 PM **Panel Discussion**
- 3:25 PM **Closing Remarks**
Joseph Bavaria, MD