

**Thursday, March 21, 2024**

7:00 – 8:00 AM **Continental Breakfast, Registration, and View Exhibits**  
Consort Foyer

**Morning Scientific Sessions | Consort II, 3<sup>rd</sup> Floor**

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8:00 – 8:05 AM **Introduction**  
*Hazim J. Safi, MD, and David D. McPherson, MD*

8:05 – 8:10 AM **Opening Remarks**  
*Anthony Estrera, MD, Ali Azizzadeh, MD*

**SESSION I:** **Structural Heart**  
Moderators: *Danny Ramzy, MD, PhD, Michael Mack, MD*

8:10 – 8:18 AM **Role of Surgery in Aortic Stenosis**  
*Michael Mack, MD*

8:19 – 8:27 AM **Best Surgical Procedure for Treatment of AS for Lifelong Management**  
*Elbert Williams, MD*

8:28 – 8:36 AM **Robotic AVR: The Anterior Approach**  
*Husam Balkhy, MD, FACS, FACC*

8:37 – 8:45 AM **Use of Aortic Wall for Autologous Aortic Valve Leaflet Replacement**  
*J. Scott Rankin, MD*

8:46 – 8:54 AM **State-of-the-Art TAVR in 2024**  
*Abhijeet Dhoble, MD, MPH*

8:55 – 9:03 AM **The Importance of Form and Function: Surgery vs. Transcatheter Mitral Valve Repair**  
*Tom Nguyen, MD*

9:04 – 9:12 AM **Robotic Mitral Valve Repair: Where Were We and Where Are We Now?**  
*T. Sloane Guy, MD, MBA*

# The Houston Aortic Symposium

*Frontiers in Cardiovascular Diseases*  
*The Sixteenth in the Series*

March 21, 22 & 23, 2024  
Houston, Texas

9:13 – 9:21 AM	<b>Computational Prediction of Heart Valve Dynamics to Aid Diagnosis and Cardiac Interventions: Are We There Yet?</b> <i>Vijay Govindarajan, PhD</i>
9:22 – 9:30 AM	<b>Management of Tricuspid Regurgitation</b> <i>Michael Mack, MD</i>
9:31 – 10:00 AM	<b>Panel Discussion</b>
10:00 – 10:30 AM	<b>Break / View Exhibits</b> Consort I, 3 <sup>rd</sup> Floor
<b>SESSION II:</b>	<b>Aortic Root/BAV</b>
Moderators:	<i>Dianna M. Milewicz, MD, PhD, Himanshu Patel, MD</i>
10:30 – 10:38 AM	<b>How I Do It Video: David Procedure After Ross</b> <i>Edward P. Chen, MD, FACS, FAHA</i>
10:39 – 10:47 AM	<b>Molecular Mechanisms Driving Aortic Dissections</b> <i>Dianna M. Milewicz, MD, PhD</i>
10:48 – 10:56 AM	<b>Complex Aortic Root Endocarditis</b> <i>Tomas Martin, MD</i>
10:57 – 11:05 AM	<b>Aortic Root Geometry Following Composite Valve Graft Implantation</b> <i>Marek Ehrlich, MD</i>
11:06 – 11:14 AM	<b>The New STS Aortic Risk Model</b> <i>Nimesh Desai, MD, PhD</i>
11:15 – 11:23 AM	<b>Clinical Implication of Blood Flow in the Aorta</b> <i>Himanshu Patel, MD</i>
11:24 – 11:32 AM	<b>Challenging Cases in Aortic Root Replacement</b> <i>Dimitrios Iliopoulos, MD</i>
11:33 – 11:41 AM	<b>Ascending Thoracic Aortic Aneurysm Biomechanics and Future Implications</b> <i>Elaine Tseng, MD</i>
11:42 AM – 12:00 PM	<b>Panel Discussion</b>

12:00 – 1:00 PM                      **Lunch**  
La Vista Room, 21<sup>st</sup> Floor

**Lunch Lecture: John Ritter Foundation for Aortic Health Update**

*Meredith Ford O’Neal, Chief Executive Officer*

*Ellen Hostetler, Chief Science Officer*

**Afternoon Scientific Sessions | Consort II, 3<sup>rd</sup> Floor**

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**SESSION III:**

Moderators:

**Ascending Aorta**

*Ourania Preventza, MD, MBA, FACS, Jehangir Appoo, MDCM, FRCSC*

1:10 – 1:18 PM

**What Is Going on with the Aortic Guidelines?**

*Ourania Preventza, MD, MBA, FACS*

1:19 – 1:27 PM

**Novel Predictors of False Lumen Degeneration in Uncomplicated Type B Aortic Dissection: 4D Flow MRI and Computational Fluid Dynamics**

*Bradley Leshnowar, MD*

1:28 – 1:36 PM

**Titan:SvS: A Randomized Trial on the Ascending Aorta**

*Jehangir Appoo, MDCM, FRCSC*

1:37 – 1:45 PM

**The PERSEVERE Trial – The AMDS Hybrid Device in Acute DeBakey I with Malperfusion**

*Wilson Szeto, MD*

1:46 – 1:54 PM

**Stent Graft Therapy in the Ascending Aorta**

*Himanshu Patel, MD*

1:55 – 2:03 PM

**AI-Based Facial Analysis for Diagnosis of Heritable Thoracic Aortic Disease**

*David Murdock, MD*

2:04 – 2:12 PM

**Contemporary Endovascular Approaches to Aortic Arch Pathology**

*George Arnaoutakis, MD*

2:13 – 2:21 PM

**Management of the Aortic Arch in Acute Type A Aortic Dissection**

*Kim de la Cruz, MD*

2:22 – 2:30 PM

**Optimizing Medical Management and Recommendations for Physical Activity in the Post Dissection Patient**

*Siddharth Prakash, MD, PhD*

2:31 – 2:55 PM

**Panel Discussion**

2:55 – 3:15 PM

**Break / View Exhibits**  
Consort I

**SESSION IV:**

Moderators:

**Transverse Arch**

*Luis Sanchez, MD, Marek Ehrlich, MD*

3:15 – 3:23 PM

**Frozen Elephant Trunk for Complex Aortic Repair**  
*Davide Pacini, MD, PhD*

3:24 – 3:32 PM

**How I Do It: Ascending Arch Replacement with Frozen Elephant Trunk**  
*Malakh Shrestha, MBBS, PhD*

3:33 – 3:41 PM

**Aortic Dissection - Can We Predict When a FET Is the Right Procedure?**  
*Michael Moon, MD, FRCSC*

3:42 – 3:50 PM

**Distinct Risks of Types A and B Dissection in Marfan Syndrome**  
*Nupoor Narula, MD, MSc*

3:51 – 3:59 PM

**Risk of Cerebral Embolization During Endovascular Repair - Progress and Limitations**  
*Grace Wang, MD, MSCE*

4:00 – 4:08 PM

**Current Indications and Outcomes of Innominate, Carotid and Subclavian Debranching Procedures**  
*Naveed Saqib, MD*

4:09 – 4:17 PM

**In Situ Arch Repair: Pitfalls, Indications and Limitations**  
*Jean Panneton, MD*

4:18 – 4:26 PM

**Antegrade Arch Devices**  
*Luis Sanchez, MD*

4:27 – 4:35 PM

**Retrograde Patient Specific Arch Devices**  
*Darren Schneider, MD*

4:36 – 4:44 PM

**Treatment of Infected TEVAR with Deep Femoral Vein Conduit**  
*Jason Faulds, MD, MHSc, FRCSC*

4:45 – 5:00 PM

**Panel Discussion**

5:00 PM

**Adjourn**

**Friday, March 22, 2024**

6:45 – 7:45 AM

**Breakfast Symposium**

21<sup>st</sup> Floor, La Vista Room

**Optimizing Seal in Challenging TEVAR**

Sponsored by Medtronic

*This content is not CME/MOC accredited*

Moderator: *Ali Azizzadeh, MD*

Speakers: *Samuel Leonard, MD*

*Bradley Leshnower, MD*

*Jean Panneton, MD*

7:00 – 8:00 AM

**Continental Breakfast and View Exhibits**

**Morning Scientific Sessions | Consort II, 3<sup>rd</sup> Floor**

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8:00 – 8:10 AM

**Opening Remarks**

*Anthony Estrera, MD, Ali Azizzadeh, MD*

**SESSION V:**

Moderators:

**Abdominal Aorta & Iliacs**

*Peter Gloviczki, MD, PhD, FACS, Fabio Verzini, MD, PhD, FEBVS*

8:10 – 8:18 AM

**Recommendations from SVS/ESVES/AHA Guidelines for Management of Abdominal Aortic Aneurysms**

*Peter Gloviczki, MD, PhD, FACS*

8:19 – 8:27 AM

**Which Anatomical Surrogate Matter and Which Don't for EVAR Selection?**

*Hence Verhagen, MD, PhD*

8:28 – 8:36 AM

**Virtual Modeling Using Analysis of Anatomical Imaging May Optimize Outcomes of EVAR**

*Randy Moore, MD, FACS, FRCSC*

8:37 – 8:45 AM

**Sac Dynamics After Standard and Fenestrated Repair: What We Know and What We Don't Know**

*Hence Verhagen, MD, PhD*

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8:46 – 8:54 AM	<b>Optimizing EVAR Surveillance According to Sac Behavior: How to Identify At-Risk Patients?</b> <i>Javairaih Fatima, MD</i>
8:55 – 9:03 AM	<b>Sex Related Differences, Implications for Device Selection and Outcomes</b> <i>Rana Afifi, MD</i>
9:04 – 9:12 AM	<b>Pitfalls for EVAR in Short and Angulated Necks Using Infrarenal Devices</b> <i>Constantino Peña, MD</i>
9:13 – 9:21 AM	<b>Lessons Learned from EVAR Explants</b> <i>Peter Gloviczki, MD, PhD, FACS</i>
9:22 – 9:30 AM	<b>Indications and Outcomes of Iliac Preservation Using Branch Devices</b> <i>Andres Fajardo, MD</i>
9:31 – 9:39 AM	<b>Failure Mechanisms of Iliac Branch Devices and How to Handle Them?</b> <i>Fabio Verzini, MD, PhD, FEBVS</i>
9:40 – 10:00 AM	<b>Panel Discussion</b>
10:00 – 10:30 AM	<b>Break / View Exhibits</b> Consort I, 3 <sup>rd</sup> Floor
<b>SESSION VI:</b> Moderators:	<b>Acute Aortic Syndrome</b> <i>Joseph Bavaria, MD, Ali Azizzadeh, MD</i>
10:30 – 10:38 AM	<b>Recommendations of SVS/ STS/ ESVES/AHA for Management of Acute TBAD</b> <i>Joseph Bavaria, MD</i>
10:39 – 10:47 AM	<b>Equipoise: Why Is a Clinical Trial Justified and What Is the Best End-Point?</b> <i>Firas Mussa, MD</i>
10:48 – 10:56 AM	<b>Endovascular Aortic Root Repair (Endo-Bentall) in Acute Type A Dissection</b> <i>Mehrdad Ghoreishi, MD</i>
10:57 – 11:05 AM	<b>Strategies for Managing Uncomplicated TBAD with TEVAR: Timing, Length of Coverage and Adjunctive Techniques</b> <i>Joseph Lombardi, MD, MBA, FACS</i>

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11:06 – 11:14 AM	<b>Stabilize Technique Pitfalls and Outcomes</b> <i>Caitlin Hicks, MD, MS</i>
11:15 – 11:23 AM	<b>Increasing Utilization of Off the Shelf Retrograde Branch Devices in Zone 2 for Acute TBAD and Other Emergencies</b> <i>Steven Maximus, MD</i>
11:24 – 11:32 AM	<b>Individualized Treatment of Acute IMH and PAUs</b> <i>Ali Azizzadeh, MD</i>
11:33 – 11:41 AM	<b>Decoding the Spectrum of Genetic Risk in Thoracic Aortic Disease: Insights from Large-Scale Biobanks</b> <i>Alana Cecchi, MS, CGC</i>
11:42 AM – 12:00 PM	<b>Panel Discussion</b>
12:00 – 1:00 PM	<b>Lunch</b> La Vista Room, 21 <sup>st</sup> Floor

## Afternoon Scientific Sessions | Consort II, 3<sup>rd</sup> Floor

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### SESSION VII:

Moderators:

### DTAAs/TAAAs and Chronic Dissections

*Sherene Shalhub, MD, MPH, FACS, DFSVS, Hence Verhagen, MD, PhD*

1:10 – 1:18 PM	<b>Clinical Practice Guideline Recommendations for Management of Chronic Aortic Dissections and DTAAs</b> <i>Fabio Verzini, MD, PhD, FEBVS</i>
1:19 – 1:27 PM	<b>TEVAR with False Lumen Occlusion Techniques, Indications and Outcomes</b> <i>Hence Verhagen, MD, PhD</i>
1:28 – 1:36 PM	<b>Transcatheter Electrosurgical Septotomy: Indications, Pitfalls and Results</b> <i>Sophia Khan, MD</i>
1:37 – 1:45 PM	<b>FB-EVAR for Chronic Dissections: Pitfalls, Outcomes and Limitations</b> <i>Darren Schneider, MD</i>
1:46 – 1:54 PM	<b>Endovascular Options and Outcomes in Patients with Genetically Triggered Aortic Diseases</b> <i>Sherene Shalhub, MD, MPH, FACS, DFSVS</i>

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Friday, March 22, 2024

- 1:55 – 2:03 PM      **Urgent vs. Elective FB-EVAR: Differences in Outcomes and Implications for Patient Selection**  
*Rafael Demarchi Malgor, MD, MBA*
- 2:04 – 2:12 PM      **Custom Made Endovascular Solutions for Unique and Problematic Anatomies in Thoracoabdominal Aorta**  
*Miltiadis Matsagkas, MD, PhD, FEBVS*
- 2:13 – 2:21 PM      **In Situ Endovascular Incorporation of Renal and Mesenteric Incorporation for Urgent Repair of TAAAs**  
*Jean Panneton, MD*
- 2:22 – 2:30 PM      **Endovascular Repair of Aortic Coarctation: Indications and Results**  
*Muhammad Ali Rana, MD, FACS*
- 2:31 – 2:45 PM      **Panel Discussion**
- 2:45 – 3:15 PM      **Break / Visit Exhibits**  
Consort I
- SESSION VIII:**      **TAAA**  
Moderators:      *Gustavo S. Oderich, MD, Anthony Estrera, MD*
- 3:16 – 3:24 PM      **Recommendations from Clinical Practice Guidelines for Management of TAAAs**  
*Rafael Demarchi Malgor, MD, MBA*
- 3:25 – 3:33 PM      **Evolution of Open TAAA Repair Techniques and Current Best Practices**  
*Hazim J. Safi, MD*
- 3:34 – 3:42 PM      **Predictors for Recovery of Spinal Cord Injury**  
*Akiko Tanaka, MD, PhD*
- 3:43 – 3:51 PM      **Technical Pitfalls and Outcomes of Open TAAA Repair in Patients with Genetically Triggered Aortic Diseases**  
*Joseph Coselli, MD*
- 3:52 – 4:00 PM      **Update on the Spider Graft Hybrid Approach to TAAA Repair**  
*Sabine Wipper, MD*
- 4:01 – 4:09 PM      **Is Centralization of Care Warranted for Open/Endovascular TAAA Repair?**  
*Anthony Estrera, MD*



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- 4:10 – 4:18 PM                    **Implementation of a Fenestrated-Branched Endovascular Program and its Effect on Outcomes**  
*Gustavo S. Oderich, MD*
- 4:19 – 4:27 PM                    **Staging Strategies, Risk of Interval Aortic Events and Patient Selection**  
*Mirza Shadman Baig, MD*
- 4:28 – 4:36 PM                    **Evolving Strategies to Prevent Spinal Cord Injury in the US ARC and Implications on Patient Survival and Outcomes**  
*Adam Beck, MD*
- 4:37 – 4:45 PM                    **Lessons from US ARC on FB-EVAR for TAAAs**  
*Matthew Eagleton, MD*
- 4:46 – 5:10 PM                    **Panel Discussion**
- 5:10 PM                                **Adjourn**

**Saturday, March 23, 2024**

7:30 – 8:25 AM                      **Continental Breakfast & Registration**  
Consort Foyer

**Abstract Sessions | Consort II, 3<sup>rd</sup> Floor**

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**SESSION IX:**

Moderators:

**ABSTRACT SESSION**

*Charles C. Miller III, PhD, Harleen Sandhu, MD, MPH, Joshua Grimm, MD*

8:25 – 8:30 AM

**Opening Remarks**

*Charles C. Miller III, PhD*

8:30 – 8:35 AM

**Abstract #111:**

**A Systematic Review and Meta-Analysis of the Clinical Safety of Bilateral Internal Iliac Artery Occlusion for Patients Undergoing EVAR**

*Eol Choi, MD, PhD*

8:36 – 8:41 AM

**Abstract #129**

**Relation of Aortic Media Histology and Root Diameter in Type A Aortic Dissection**

*Kyle A. McCullough, MD*

8:42 – 8:47 AM

**Abstract #121**

**Novel Endovascular Management of Ruptured Suprarenal Abdominal Aortic Aneurysm in A Patient with Prior Aorto-Uni-iliac Stent Graft**

*Ishaq Wadiwala, MBBS*

8:48 – 8:53 AM

**Abstract #114**

**Wrap or Not to Wrap of Ascending Aorta during Surgical Treatment of its Poststenotic Aneurysms: Is it the Better Option?**

*Volodymyr Popov, MD, PhD, DMSc*

8:54 – 8:59 AM

**Abstract #133**

**Sex Differences in Proximal Thoracic Aortic Disease Pathology: A Call to Action**

*Humaira Sadaf, MD*

- 9:00 – 9:05 AM      **Abstract #108**  
**Genomic Medicine Guidance (GMG): A Point of Care Tool for Heritable Thoracic Aortic Diseases**  
*Rohan Patil*
- 9:06 – 9:11 AM      **Abstract #119**  
**A Case Series of Aortic Complications Following Intra-Aortic Balloon Pump Insertion: Interventions and Outcomes**  
*Jake Nicholson, DO, RPVI*
- 9:12 – 9:17 AM      **Abstract #122**  
**15 Years of TYPE A Aortic Dissection Surgery - Single Centre Outcomes**  
*Atanu Saha, MBBS, MS, FRCS, DNB (CTVS)*
- 9:18 – 9:23 AM      **Abstract #106**  
**Bicuspid Aortic Valve Disease with Early Onset Complications: Characteristics and Aortic Outcomes**  
*Maximilian Selbst, BS*
- 9:24 – 9:29 AM      **Abstract #130**  
**Disparities in Abdominal Aortic Dissection and Aneurysm Mortality Trends: Revealing Gender and Racial Inequalities**  
*Andrew Ramirez, BS*
- 9:30 – 9:35 AM      **Abstract #112**  
**Can the Innominate Artery Be Considered a Safe and Effective Site of Arterial Cannulation in Aortic Arch Surgery? Results from a Single Center Experience**  
*Andrea Ruggiero, MD*
- 9:36 – 9:41 AM      **Abstract #103**  
**Management of Traumatic Injury of the Tricuspid Valve**  
*Eric Yui Wei Lo, MBBS*
- 9:42 – 9:47 AM      **Abstract #135**  
**Temporary Axillo-Femoral Bypass to Bypass Renal Ischemia Time in a Transplanted Patient**  
*Thomas Isler, MD*
- 9:48 – 9:53 AM      **Abstract #120**  
**Open Repair of a Ruptured Abdominal Aorta with an Aortoiliac Vein Fistula in a 7-month-old Infant**  
*Ishaq J. Wadiwala, MBBS*

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- 9:54 – 10:15 AM                    **Break**
- 10:15 – 10:20 AM                    **Abstract #138**  
**Histopathological Evaluation of Type A Aortic Dissection: A Comparison of Congenital versus Acquired Aortic Wall Weakness**  
*Humaira Sadaf, MD*
- 10:21 – 10:26 AM                    **Abstract #123**  
**Neuroimaging Guided Pre Operative Cannulation Strategy for Patient Requiring Deep Hypothermic Circulatory Arrest**  
*Atanu Saha, MD*
- 10:27 – 10:32 AM                    **Abstract #136**  
**The Relationship Between Insurance Status and Access on Abdominal Aortic Aneurysm Repair Mortality in the United States: A National Healthcare Quality and Disparities Analysis**  
*Andrew Ramirez, BS*
- 10:33 – 10:38 AM                    **Abstract #118**  
**Safe Surgical Treatment of Valve Lesions in Cardiac Myxomas: Problem Solved and Unsolved**  
*Volodymyr Popov, MD, PhD, DMSc*
- 10:39 – 10:44 AM                    **Abstract #107**  
**Mechanical vs Bioprosthetic Valve for Aortic Valve Replacement in Chronic Kidney Disease Patients: Systematic Review and Individual Patient Data Meta-Analysis**  
*Ioannis Zoupas, MD*
- 10:45 – 10:50 AM                    **Abstract #102**  
**Evaluation of Carotid Contraction Diameter Changes in Patients with Chronic Heart Failure on Optimal Medical Therapy**  
*Adam Golda, MD, PhD*
- 10:51 – 10:56 AM                    **Abstract #109**  
**Proximal TEVAR Contained Rupture of Graft by Adventitia with Type 1A Endoleak and Incidental Finding of Extensive Zone 4/5 TEVAR Mobile Intraluminal Thrombus**  
*Habib Jabagi, MSc, MLP, FRCSC*
- 10:57 – 11:02 AM                    **Abstract #128**  
**After Standard EVAR for Abdominal Aortic Aneurysm a Device Specific Follow-Up Strategy is Important**  
*Gregor Siegl, MD*

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- 11:03 – 11:08 AM      **Abstract #134**  
**An Early Experience with a Hybrid Graft for Aortic Arch Dissection**  
*Emily Shih, MD*
- 11:09 – 11:14 AM      **Abstract #113**  
**20 Years of Aortic Valve Reimplantation in Bologna: What We Have Done, What We Learnt**  
*Valentina Orioli, MD*
- 11:15 – 11:20 AM      **Abstract #116**  
**Myocardial Protection for Combined Mitral-Aortic-Tricuspid Valve Correction: Is Retrograde Apply of Cardioplegia Better?**  
*Volodymyr Popov, MD, PhD, DMSc*
- 11:21 – 11:26 AM      **Abstract #137**  
**Pregnant Siblings with Type A Aortic Dissection and MHY11 Mutation — A Decade Apart**  
*Castigliano M. Bhamidipati, DO PhD MSc FACS FACC*  
(presented by *Ishaq Wadiwala, MBBS*)
- 11:27 – 11:30 AM      **Closing Remarks**  
*Hazim J. Safi, MD, and David D. McPherson, MD*