

Lifetime Management of the Aorta

Saturday, January 7, 2023 from 8 a.m. to 3 p.m.

Virtual via Zoom

Interactive didactic sessions from UPMC Herberman Conference Center, UPMC Shadyside

Course Directors:

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Surgical Director, UPMC Center for Heart
Valve Disease
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Invited Faculty:

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Professor of Health Management and Policy,
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Director, Frankel Cardiovascular Center
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Thoralf Sundt, MD

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Director, Corrigan Minehan Heart Center
Co-Director, Hypertrophic Cardiomyopathy
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Massachusetts General Hospital
Harvard Medical School

Josephine Grima, PhD

Chief Science Officer
The Marfan Foundation



Learning Objectives:

Aortic disease can manifest itself in various clinical presentations while being insidious in nature. It can stem from a wide range of underlying causes including genetic and familial conditions, congenital anomalies and acquired disease. Thus, comprehensive, lifelong management of the aorta by a multi-disciplinary and integrated team of experts affords these complex patients the greatest likelihood of optimal clinical outcomes.

Lifetime Management of the Aorta brings together experts in pediatric and adult cardiology, cardiac surgery, adult congenital heart disease, genetics, cardiovascular imaging, cardio-obstetrics, vascular surgery and subspecialists in orthopedics and ophthalmology to explore current gold standard management techniques, strategies for overcoming complex medical management issues, technical pearls for challenging surgical interventions, and the importance of the provision of support resources for treatment of the aortic patient across the lifespan. Importantly, this course will explore the critical programmatic elements needed to facilitate truly integrated and comprehensive aortic care.

After participating in this educational event, learners can expect to:

- Develop an understanding of the role of genetics in development of aortic disease, and the importance of familial screening.
- Recognize the importance of lifelong surveillance for aortic patients.
- Employ imaging techniques that are best suited to image the aorta.
- Recognize the presentation of acute aortic syndromes.
- For surgeons, the utilization of technical pearls in the treatment of complex aortic root, arch and thoracoabdominal aneurysms and dissection
- Incorporate ancillary specialties into the care management plans for aortic patients.
- Introduce aortic patients to critical support group resources.
- Utilize UPMC's comprehensive, multi-disciplinary, and longitudinal model of aortic care to improve clinical outcomes and quality of life for aortic patients at their center.

Audience:

This course is designed for pediatric and adult cardiologists; cardiac surgeons; adult congenital heart diseases specialists; emergency medicine providers; cardiothoracic radiologists; vascular surgeons; advanced practice providers; nurses; medical students; residents and fellows; basic science and clinical research faculty and professionals; data and quality improvement healthcare professionals; healthcare administrators; and any other individuals interested in lifelong care of patients with aortic disease.

In addition, aortic patients and their families and other loved ones at all ages of the lifespan are invited to join our Aorta Patient and Family Support Breakout Session.

Co-Endorsement Support

The UPMC Heart and Vascular Institute and Heart Institute at UPMC Children's Hospital of Pittsburgh would like to thank the Society of Thoracic Surgeons, the Congenital Heart Academy, and the Marfan Foundation for their endorsement of this continuing medical education activity. We are incredibly grateful the support of these world-class organizations for their support of our mission: to provide outstanding clinical care for the aortic disease patient population at all phases of life.



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Program Agenda:

8:00 a.m. **Welcome**
Ibrahim Sultan, MD

Section I: Lifetime Management of the Aorta: Diagnosis and Medical Therapy
Moderators: Arvind Hoskoppal, MD; Laura Olivieri, MD; Julie Phillippi, PhD

8:05 a.m. **Medical Management of Aortic Disease**
Arvind Hoskoppal, MD

8:20 a.m. **Screening for Aortic Disease and Family Centered Clinic**
Rachel Torok, MD

8:35 a.m. **How to Raise Awareness of Aortic Disease**
Josephine Grima, PhD

Aorta Patient and Family Support Breakout Session
8:50 a.m. to 9:35 a.m.

Katie Scollon, PA-C; Elissa Castor, PA-C; Ashley Draxinger, BSN, RN

8:50 a.m. **Role of Genetics in the Diagnosis of Aortic Disease**
Mousumi Moulik, MD:

9:05 a.m. **Advanced Imaging for Thoracic Aortic Disease**
Christopher Deible, MD, PhD

9:20 a.m. **Bicuspid Aortic Valve: What is the Fuss All About?**
Josh Levenson, MD

9:35 a.m. **Aortic Aneurysms in Pregnancy: Special Considerations**
Katie Berlacher, MD, MS:

9:50 a.m. **Panel Discussion**

10:05 a.m. **Break**

Section II: Lifetime Management of the Aorta: Surgical Intervention
Moderators: Ibrahim Sultan, MD; Victor O. Morell, MD; Michael Singh, MD



- 10:20 a.m. Surgical Intervention for Aortic Disease: Prophylactic Surgical Intervention for Thoracic Aortic Disease—Primum Non Nocere**
Thoralf Sundt, MD
- 10:35 a.m. Surgery for Aortic Root Aneurysms: How We Do It**
Victor O. Morell, MD
- 10:50 a.m. Management for Acute Aortic Dissection: The Pittsburgh Paradigm**
Ibrahim Sultan, MD
- 11:05 a.m. Open Thoracoabdominal Aortic Aneurysm in 2023: What Has Changed**
Anthony L. Estrera, MD
- 11:20 a.m. Abdominal Aortic Aneurysm: Lessons Over the Past Two Decades**
Michael Singh, MD
- 11:35 a.m. Mesenteric Artery Aneurysms: When to Treat?**
Mohammad H. Eslami, MD, MPH
- 11:50 a.m. Endovascular Strategies for Thoracic Aortic Disease**
Derek Serna Gallegos, MD
- 12:05 p.m. Routine Surveillance after EVAR for Aortic Disease: Is it Warranted?**
Rabih Chaer, MD
- 12:20 p.m. Panel Discussion**
- 12:35 p.m. Break**
- Section III: Lifetime Management of the Familial Aortopathy Patient: A Multidisciplinary Journey**
Moderators: Rachel Torok, MD; Nathan Liang, MD; Derek Serna Gallegos, MD
- 12:50 p.m. Acute Aortic Dissection—Lessons Learned Over the Past 25 Years**
Kim A. Eagle, MD
- 1:05 p.m. Pectus Management: Patients with Familial Aortopathy**
Mario Castro, MD
- 1:20 p.m. Orthopedic Considerations in Patients with Familial Aortopathies**
Mark E. Lavalley, MD, CSCS, FACS, FAMSSM
- 1:35 p.m. Ophthalmological Considerations in Patients with Familial Aortopathies**
Andrew Eller, MD
- 1:50 p.m. Complex Case Discussion: The UPMC Approach to Integrated Aortic Care**
Elizabeth Andraska, MD, MS; James Brown, MD; Megan Gunsaulus, MD

- 2:05 p.m. Comprehensive Care and Support for Patients with New and Lifelong Aortic Disease**
Elissa Castor, PA-C
- 2:20 p.m. Lifelong Surveillance of the Aortic Patient**
Natasha K. Wolfe, MD
- 2:35 p.m. Final Panel Discussion**
- 3:00 p.m. Adjournment**
Ibrahim Sultan, MD

Virtual Exhibitor and Technology Fair (available to all attendees)
3:30—5:30pm

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Continuing Medical Education:

Accreditation and Designation Statement

In support of improving patient care, the University of Pittsburgh is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.



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The University of Pittsburgh designates this live activity for a maximum of 6.5 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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Other health care professionals will receive a certificate of attendance confirming the number of contact hours commensurate with the extent of participation in this activity.

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Kim Eagle, MD

Grant/Research Support: W.L. Gore


Anthony L. Estrera, MD

Consultant: W.L. Gore, Cryolife, Edwards Lifesciences, Terumo Aortic

Mark E. Lavallee, MD

Volunteer position: USA Weightlifting, Chief Medical Officer and IWF Executive Medical Board member

Laura Olivieri, MD



Grant/Research Support: R33 R21HD090671, NICHD; R01, R01 HL144494-01 NHLBI; R01, R01HL143468-0, NHLBI

Ibrahim Sultan, MD

Grant/Research Support: Abbott, Articure, Artivion, Boston Scientific, Edwards, Medtronic, Z MEDICA

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