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For more information or to make an appointment or referral, visit MedStarHealth.org

MedStar Heart & Vascular Institute
Nationally recognized excellence in the Baltimore-Washington region

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Referring physicians have access to recognized national leaders in multiple cardiac and vascular sub-specialties and local access to MedStar Heart & Vascular Institute cardiac and vascular physicians located throughout Maryland, Northern Virginia, and the Greater Washington, D.C., and Baltimore regions.

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Washington, DC 20010
Non-Profit Organization
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MedStar Washington Hospital Center

MedStar Health

MedStar Heart & Vascular Institute
Aortic Disease Management Program

Dear colleague,

We are pleased to share this annual update with you on our Aortic Disease Management Program. Inside you will find information on some of our recent offerings, including new devices, technology, and clinical trials.

Our cardiac and vascular surgeons perform more aortic interventions than any other in the mid-Atlantic region, including the most complex of cases. We have access to the full spectrum of options, including transcatheter, minimally invasive, and surgical approaches. Treatment plans are always carefully selected according to each person’s unique needs, risks, and anatomy.

Patients also receive the benefit of a multidisciplinary team perspective, comprised of specialists in cardiac and vascular surgery, cardiology, cardiovascular imaging, cardiovascular critical care, cardiovascular anesthesiology, advanced practice providers, and dedicated cardiovascular nurses.

We are honored to help care for your patients, regardless of condition complexity, in urgent or elective circumstance. Please feel welcome to contact us directly if you’d like further information or our program.

Sincerely,
Christian C. Shults, MD, and Javairiah Fatima, MD
(Co-directors, MedStar Health Complex Aortic Program; Program leads, Washington, D.C. region)
Ricardo O. Quarrie, MD
Cardiac Surgeon
410-215-7123 (cell)
Raghu Vallabhaneni, MD
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Ricardo O. Quarrie, MD
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TU King St. N.W. Washington, DC 20030

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MedStar Health’s Physician Executive Director of Cardiac Surgery, Thomas MacGillivray, MD, served as a reviewer on the publication of the new recommendation.

Our team continues to add new approaches and devices to our treatment toolbox, providing a large variety of options for patients, customized to their unique needs and anatomy. Several of the available options, including minimally invasive, transcatheter, and open approaches, include:

### Aortic Valve Replacement
- Aortic valve replacement
- Transcatheter, minimally invasive, or surgical
- New generation of mechanical and tissue valves (recognized center for INSPIRIS RESILIA and On-X valves)
- Ross procedure using the patient's own pulmonary valve and aorto-pulmonary connection

### Aortic Root Replacement
- Aortic root replacement
- Value-sparing root replacement (David procedure)
- Ross procedure using the patient's own pulmonary valve and aorto-pulmonary connection
- HeartMate annuloplasty ring

### Aortic Arch Repair
- Aortic arch repair
- Thoratec™ aortic arch replacement
- Hybrid repair

### Ascending Aorta
- Ascending open replacement
- Minimally invasive ascending aortic replacement
- Endovascular replacement
- Hybrid repair

### Thoracoabdominal Aorta
- Open thoracoabdominal aortic aneurysm repair
- Minimally invasive endovascular repair
- Clinical trial to evaluate endovascular repair to thoracoabdominal aortic aneurysm (TAAR)
- GORE TAMBE trial
- FDA-approved Investigational Device Exemption (IDE) to use physician-modified endografts with fenestrations and branches (TEVAR and BEVAR) to treat aortic aneurysms
- Hybrid repair

### Inferior Aorta
- Open aortic aneurysm repair
- Endovascular aortic aneurysm repair (EVAR)
- Ongoing clinical trials for novel therapies and devices
- JAGUAR trial
- TRED device

### Thoracic Aortic Disease
- Approaches for aneurysmal disease, aortic dissection, and other pathology
- Minimally invasive endovascular repair
- Standard open repair
- Hybrid repair

### Infrarenal Aorta
- Open aortic aneurysm repair
- Endovascular aortic aneurysm repair (EVAR)
- Ongoing clinical trials for novel therapies and devices

### Thoracic Aortic Brochure
- Comprehensive management of aortic disease
- Fiscal year 2022

### New aortic disease guidelines from the American College of Cardiology/American Heart Association recommend...
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- Transcatheter, minimally invasive, or surgical
- New generation of mechanical and tissue valves (recognizer center for INSPIRIS RESILIA and On-X valves)
- Ross procedure using the patient’s own pulmonary valve and aortoconary bypass to replace a diseased aortic valve and/or root

**Aortic Valve Repair**
- HAART annuloplasty ring

**Aortic Valve**
- Aortic valve replacement
  - Standard arch replacement with re-implantation of the arch vessels
  - Thoraflex™ aortic arch replacement (arch graft replacement with connected stent)
  - Endovascular replacement
    - TROMPTE study to investigate the NOVUS® Aortic Stent Graft System, offering a less invasive procedure for patients with arch aneurysm and/or dissection
  - Hybrid replacement
    - Standard TEVAR
    - Aortic arch debranching with subsequent TEVAR

**Ascending Aorta**
- Ascending open replacement
- Minimally invasive ascending aortic replacement
- Endovascular replacement

**Aortic Arch**
- Open replacement
  - Standard arch replacement with re-implantation of the arch vessels
- Ross procedure using the patient’s own pulmonary valve and aortoconary bypass to replace a diseased aortic valve and/or root

**Aortic Root**
- Aortic root replacement
  - Traditional root replacement (Bentall’s procedure)
  - Minimally invasive approach in select cases
  - Removal aneurysm and replace degenerated native aortic valve with:
    - ENDOFLEX aortic valve conduit
    - JAGUAR™ aortic valve conduit
    - On-X Value Conduit
    - Ross Procedure
  - Hybrid replacement
  - Standard TEVAR
  - Aortic arch debranching with subsequent TEVAR

**Thoracic Aorta**
- Approaches for aneurysmal disease, aortic dissection, and other pathology:
  - Minimally invasive endovascular repair
  - Standard surgical repair
  - Hybrid procedures

**Thoracoabdominal Aorta**
- Open thoracoabdominal aortic aneurysm repair
- Minimally invasive endovascular repair
- Clinical trial to evaluate endo graft to repair thoracoabdominal aortic aneurysm (TAAR)
- GORE® THIRTEEN™️
- FDA approved Investigational Device Exemption (IDE) to use physician modified endografts with fenestrations and branches (TEVAR and BEVAR) tailored specifically to each patient’s individual anatomy. Extends the ability to offer less invasive aortic repair to patients who are considered high risk for open thoracoabdominal aortic repair using commercially available endografts.

**Infrarenal Aorta**
- Open infrarenal aortic aneurysm repair
- Endovascular infrarenal aortic aneurysm repair (EVAR)
  - Ongoing clinical trials for novel therapies and devices
  - JAGUAR and LEO device

**Descending Aorta**
- Approaches for aneurysmal disease, aortic dissection, and other pathology
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- Ross procedure using the patient's own pulmonic valve and aortoconduit to replace a diseased aortic valve and/or root

Aortic Valve Replacement
- Standard open replacement
- Transcatheter replacement with re-implantation of the native valve
- Thoracic “Ross” aortic valve replacement
- Endovascular replacement

Aortic Root
- Aortic root replacement
- Standard open replacement (Bentall procedure)
- Minimally invasive approach in select cases
- Resects aneurysm, retains native valve, delays valve degeneration and need for anti-coagulation
- Hybrid repair
- Standard TEVAR
- Aortic arch debranching with subsequent TEVAR

Ascending Aorta
- Ascending open replacement
- Minimally invasive ascending aortic replacement
- Ascending endovascular replacement
- Hybrid repair

Aortic Arch
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- Thoracic “Ross” aortic arch replacement
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