

# UVA Complex Aortic Disease Program

## The UVA Difference

### Leading Clinical Programs

As a high-volume aortic surgery center, UVA performed more than 2,500 major aortic procedures during the past decade.

Our aortic surgery team works closely with referring physicians to determine the best course of treatment, whether medical management and monitoring or endovascular surgical intervention is appropriate. Our multidisciplinary team of cardiologists, vascular medicine specialists, interventional radiologists, and cardiac and vascular surgeons work collaboratively to ensure patients are offered the most appropriate treatment options. A genetic counselor on our team also offers counseling and guidance to patients and their families at high risk for developing aortic disease.

### Technologically Advanced Facilities

With four technologically advanced hybrid operating rooms, our treatment facilities allow for less invasive procedures, as well as pioneering hybrid procedures that combine endovascular and complex open surgery.

With more than four decades of experience, the Complex Aortic Disease Program at UVA Heart and Vascular Center has a long-standing tradition of treating complex thoracic and abdominal aortic disease.

Our multidisciplinary team offers the full complement of treatment options for aortic disease, including medical evaluation, genetic screening, and endovascular and open aortic surgery.

Our aortic team has extensive experience with treatment of aortic dissection, thoracoabdominal aneurysms and connective tissue disorders, such as Marfan syndrome.

UVA offers rapid access to nationally recognized leaders for not only aortic emergencies but second opinions for complex cases.

### Aortic Emergencies

Our aortic alert system puts referring physicians in touch with a UVA aortic triage officer (the attending cardiac or vascular surgeon) any time, day or night. For a consult on any aortic emergency, such as an aortic dissection or ruptured aortic abdominal aneurysm, please call the UVA Transfer Center at 844.933.7882 and ask for the aortic triage officer (ATO) on call.

## Conditions Treated

### Aortic Aneurysm

- Root
- Ascending
- Arch
- Descending
- Thoracoabdominal
- Abdominal

### Aortic Dissection

- Acute
- Chronic
- Traumatic
- Latrogenic

### Genetically Triggered Disease

- Marfan syndrome
- Loeys-Dietz syndrome
- Ehlers-Danlos syndrome
- Familial thoracic aortic aneurysms and dissection

## Available Treatments

### Minimally Invasive Procedures

- Endovascular abdominal aneurysm repair
- Thoracic endovascular aneurysm repair
- Traditional arch replacement
- Ascending aortic aneurysm repair with or without aortic valve repair or replacement
- Valve-sparing aortic root replacement
- Thoracic aortic repair (root, ascending, arch and descending)
- Thoracoabdominal aortic repair
- Abdominal aortic repair

### Pioneering Procedures

In addition to the minimally invasive and traditional approach, UVA offers both hybrid and staged repairs.

- Hybrid thoracoabdominal or arch aneurysm repair (combined open and endovascular procedures)
- Transcaval TEVAR/alternative access to thoracic endovascular aneurysm repair

## Pioneering Research

Aortic Aneurysm Research Labs at UVA are dedicated to discovery of the mechanisms of aneurysm formation and prevention. Current research funding totals \$8.2 million.

## Clinical Trials

We invite referring providers to consider enrolling patients with aortic disease in one of our clinical trials. Currently enrolling trials include:

- **Research Study for Adults Undergoing Surgery for Thoracic or Abdominal Aneurysm (IRB 17042)**

The purpose of this study is to help researchers learn more about what causes aneurysms to form in the body. Study participation includes allowing researchers to collect some information from medical records, imaging information about the size and location of the aneurysm, and information from the laboratory about kidney function and blood chemistry. During surgery, researchers will collect a piece of the diseased blood vessel that is normally removed and thrown away. This tissue will be kept and examined.

**UVA Principal Investigator:** Gorav Ailawadi, MD

**Contact:** Rachel Simon, RN, BSN

**Phone:** 434.243.0315

- **Research Study for Adults With a Thoracic Aortic Aneurysm (IRB 18737)**

The purpose of this study is to demonstrate the safety and effectiveness of an investigational stent graft system in subjects with a descending thoracic aortic aneurysm (DTAA) who are candidates for endovascular repair. Study will require placement of the investigational device and six study visits over a two-year period.

**UVA Principal Investigator:** John Kern, MD

**Contact:** Rachel Simon, RN, BSN

**Phone:** 434.243.0315

## Clinical Trials, cont.

- **Research Study for Adults With Peripheral Artery Disease That Caused Critical Limb Ischemia (IRB 17685)**

The purpose of this research study is to learn which treatment is best for those with CRI.

**UVA Principal Investigator:** Megan Tracci, MD

**Contact:** Rachel Simon, RN, BSN

**Phone:** 434.243.0315

## Locations

**UVA Heart and Vascular**

**Cardiac Surgery Clinic**

**Advanced Cardiac Valve Clinic**

**Vascular and Endovascular Surgery Clinic**

University Hospital | Second Floor

1215 Lee St.

Charlottesville, VA 22903

**Cardiovascular Genetics Clinic**

**UVA Primary Care Center**

1221 Lee St.

Charlottesville, VA 22903

**UVA Heart and Vascular Center Fontaine**

**Fontaine Research Park**

500 Ray C. Hunt Drive

Charlottesville, VA 22903

**UVA Specialty Care Augusta**

**Cardiology and Vascular**

**UVA Medical Park Beam**

57 Beam Lane, Suite 205

Fishersville, VA 22939

**UVA Cardiology**

**A Department of Novant Health UVA Health**

**System Culpeper Medical Center**

541 Sunset Lane, Suite 1108

Culpeper, VA 22701

**University Physicians Orange**

661 University Lane, Suite B

Orange, VA 22960

**UVA Primary and Specialty Care**

**Zion Crossroads**

**UVA Zion Crossroads Medical Park**

1015 Spring Creek Parkway

Zion Crossroads, VA 22942

[heart.uvahealth.com](http://heart.uvahealth.com)

**UVA Heart and Vascular Center**  
Complex Aortic Disease Program

To refer a patient, please call **434.243.1000**.  
Aortic Triage Officer (Transfer Center) **844.933.7882**