

# HEART & VASCULAR INSTITUTE

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Minds Advancing Medicine

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## CONTENTS

- 4 ABOUT THE INSTITUTE
- 5 MEET THE INSTITUTE'S DIRECTOR
- 6 MEET THE CENTER DIRECTORS
- 8 ADVANCED IMAGING
- 9 VASCULAR SURGERY
- 10 VEIN CENTER
- 12 CARDIOLOGY
- 14 CHEST PAIN CENTER
- 16 NEPHROLOGY  
PODIATRY
- 17 CENTER FOR WOUND MANAGEMENT
- 18 QUARTERLY CARDIOVASCULAR  
SCREENING EVENTS
- 19 ABOUT CAPITAL HEALTH

## ABOUT THE INSTITUTE

The Capital Health Heart & Vascular Institute provides comprehensive vascular care in one convenient location — Capital Health Medical Center – Hopewell. Our model offers the latest diagnostic testing and treatment options through a coordinated, multi-specialty approach. Our team of specialists collaborates with patients and their referring physicians to improve the overall quality of care to patients with one or more conditions that affect the heart and vascular system.

The Institute features a new, highly advanced hybrid operating room that allows our fellowship trained vascular surgeons to provide both minimally invasive and open surgical procedures. In addition, the Institute offers specialized centers for all aspects of cardiovascular care, including:

- Cardiology
- Chest Pain Center
- Vascular Surgery
- Advanced Imaging, including Interventional Radiology
- Podiatry (Foot Specialists)
- Vein Center
- Center for Wound Management, including the Center for Hyperbaric Medicine
- Nephrology (Kidney Specialists)

## MEET THE INSTITUTE'S DIRECTOR

**JOSHUA A. EISENBERG, MD, FACS**  
Director, Heart and Vascular Institute



Dr. Eisenberg is a fellowship trained open and endovascular surgeon who specializes in full spectrum treatment of the vascular system, including abdominal and thoracic aortic aneurysms, peripheral artery disease (PAD), peripheral vein disease (PVD), carotid blockages, deep vein thrombosis (DVT), and other related conditions. As Chief Medical Officer of Capital Health, Dr. Eisenberg provides leadership for our medical staff and is responsible for patient safety and clinical quality. In addition, he works on programmatic development, physician relations and medical staff affairs.

Prior to joining Capital Health, Dr. Eisenberg was chief of the Division of Vascular and Endovascular Surgery at Methodist Hospital (one of the Thomas Jefferson University Hospitals) and an assistant professor of Surgery in the Department of Surgery's Division of Vascular and Endovascular Surgery at Jefferson Medical College in Philadelphia, PA.

Dr. Eisenberg received his medical degree from Jefferson Medical College and completed his internship and residency in surgery at Thomas Jefferson University Hospital. He completed his fellowship training in vascular surgery at Pennsylvania Hospital (part of the University of Pennsylvania Health System) in Philadelphia. He is certified in general surgery and vascular surgery by the American Board of Surgery and a fellow of the American College of Surgeons.

He is a member of local and national vascular societies, including the Society for Vascular Surgery and the Society for Clinical Vascular Surgery. He has published numerous articles in peer review journals.

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## MEET THE CENTER DIRECTORS

### AJAY CHOUDHRI, MD

Director, Vascular and Interventional Radiology  
Assistant Director, Department of Radiology



Dr. Ajay Choudhri received his medical degree from the New Jersey Medical School, UMDNJ, Newark. His residency in radiology at Albert Einstein College of Medicine, Montefiore Medical Center, was followed by a fellowship in interventional radiology at the Miami Cardiac and Vascular Institute. He previously served as director of Interventional Radiology at Jackson South Hospital in Miami. He is board certified in radiology and vascular medicine. He specializes in aortic repair, peripheral arterial disease, venous disease and complex cardiovascular imaging.

### SHERI GILLIS FUNDERBURK, MD

Director, Capital Health – Endocrinology Specialists  
Medical Director, Capital Health Diabetes Education Program



Dr. Gillis Funderburk received her medical degree from the University of Medicine & Dentistry of New Jersey, Robert Wood Johnson Medical School. She continued her training by completing an Internal Medicine Residency and Endocrinology and Metabolism Fellowship at the University of Medicine & Dentistry of New Jersey, Robert Wood Johnson Medical School. Dr. Gillis Funderburk is board-certified in Internal Medicine and Endocrinology. She specializes in the diagnosis and management of diabetes and thyroid disorders.

## DANIEL J. LEE, MD, FACS

Director, Vascular Laboratory & Wound Care Center



Dr. Daniel Lee received his medical degree from Mount Sinai School of Medicine in New York City, New York and completed his general surgery internship and residency at Hahnemann University Hospital in Philadelphia, Pa. He completed his fellowship training in vascular surgery and clinical research in vascular surgery at Allegheny University Hospital in Philadelphia, PA. Dr. Lee is board certified in general surgery and vascular surgery and has been in practice for more than 15 years. He delivers a full range of vascular care from aortic aneurysms and carotid/peripheral occlusive disease to dialysis access and varicose veins.



## KRISTOPHER YOUNG, DO, FACC

Director, Capital Health Chest Pain Center

Dr. Kristopher Young received his medical degree from Philadelphia College of Osteopathic Medicine and completed his residency and internship in internal medicine at St. Luke's Hospital of Bethlehem, PA. He completed his fellowship training in cardiovascular disease and level III echocardiography at Deborah Heart and Lung Center in Browns Mills, NJ. He is board certified in internal medicine, cardiology, echocardiography, and nuclear cardiology. Dr. Young oversaw the development of the first accredited Chest Pain Center in the Mercer/Bucks County region, located at Capital Health Medical Center – Hopewell.

## ADVANCED IMAGING

### DIAGNOSTIC IMAGING

At the Heart & Vascular Institute patients can receive the full scope of cardiac and vascular testing for circulatory problems and arterial diseases at our Vascular Laboratory. Patients have access to screenings and non-invasive tests under the expertise of vascular surgeons, interventional cardiologists, interventional radiologists, registered vascular technologists and nurses trained to diagnose and treat vascular problems.

In addition to Hopewell, these services are offered at Capital Health–Hamilton and Trenton (Capital Health Regional Medical Center) facilities, and all sites are accredited for their high quality by the Intersocietal Accreditation Commission (formerly the Intersocietal Commission for the Accreditation of Vascular Laboratories).

### INTERVENTIONAL RADIOLOGY

Interventional Radiology is a specialized field focused on minimally-invasive procedures and therapies using image guidance to clear small blockages within the body.

Interventional Radiology is an integral part of the cardiopulmonary and vascular procedures performed at the Institute. This specialized and rapidly-expanding field within conventional radiology allows procedures to be done in a way that is less invasive, carries less risk, decreases recovery time, and limits the need for hospital admission.

In addition to vascular procedures, our interventional radiologists provide a full range of noninvasive interventions including dialysis access, spine and joint procedures, and cancer treatments.

*To schedule your test or procedure, call Capital Health Central Scheduling at 609.394.6695 or visit [capitalhealth.org/mytest](http://capitalhealth.org/mytest)*



## VASCULAR SURGERY

Our fellowship trained vascular surgeons provide traditional open and minimally invasive surgical treatments to care for a wide range of conditions affecting the vascular system. Our vascular surgeons provide both laparoscopic and robotic treatments of various vascular conditions. In addition, the majority of vascular surgeries at Capital Health are now performed endovascularly through a small puncture site.

### HYBRID OPERATING ROOM

Enhancing the expertise of our surgeons at the Institute, our unique hybrid operating room allows highly trained surgeons to perform both minimally invasive and open surgical procedures in one setting. One of the first hybrid operating rooms in the country, this state-of-the-art technology merges imaging and surgical technology allowing surgeons to perform more advanced procedures.



Most traditional operating rooms have less space, requiring the imaging and the surgery to be performed in separate rooms at separate times with different teams and greater potential for complications. Our hybrid operating room allows procedures to occur in one room, with one team at the same time.

*To learn more about the Vascular Surgeons at the Institute, visit [capitalheartandvascular.org](http://capitalheartandvascular.org) or call 855.827.2362 (VASCDOC).*

## VEIN CENTER

Located at both Capital Health Medical Center – Hopewell and Capital Health – Hamilton, the Vein Center is staffed by fellowship-trained surgeons and interventional radiologists to offer complete outpatient diagnosis and treatment for the following vein disorders.

- Deep Vein Thrombosis (DVT)/Thrombophlebitis
- Spider Veins
- Varicose Veins
- Venous Insufficiency

### DEEP VEIN THROMBOSIS (DVT)/THROMBOPHLEBITIS

Deep vein thrombosis (DVT) occurs when a blood clot develops in a vein deep in the body. When a clot forms in a vein, inflammation of the vein may occur at the affected site. This is referred to as thrombophlebitis.

In addition to a complete medical history and physical examination, diagnostic procedures for deep vein thrombosis may include duplex ultrasound, magnetic resonance imaging (MRI) or venogram. Based on a number of different factors, treatment may include medications, vena cava filter or surgery.

### VARICOSE VEINS

Varicose veins are enlarged, twisted veins that occur just below the surface of the skin. These blue, swollen veins are commonly seen on legs, ankles and feet. For many people, varicose veins are simply a cosmetic concern. However for others, they are painful and can lead to more serious medical problems.

Because they are diagnosed by appearance, the most common and successful way to diagnose a varicose vein is through a

physical examination and a review of your medical history. If you are considering surgery, an ultrasound can be done to pinpoint the location of the vein problem.

If lifestyle changes (increasing your exercise, watching your weight and diet and elevating your legs on a regular basis) do not work, there are outpatient procedures available, including vein stripping, radiofrequency ablation, laser therapy, sclerotherapy, ambulatory phlebectomy and compress stockings.

### SPIDER VEINS

Spider veins are smaller varicose veins which can appear anywhere on the body however most commonly develop in thighs, calves and ankles. These blue, red or purple thread-like veins are usually a cosmetic concern but may cause mild aching, heaviness, itchiness or cramps at night. Spider veins are commonly treated with sclerotherapy, laser therapy or through home treatment.

### VENOUS INSUFFICIENCY

Chronic venous insufficiency occurs when the leg veins do not allow blood to travel back to the heart. Chronic venous insufficiency does not pose a serious health threat, but the condition, if left untreated, can cause pain, swelling, and leg ulcers. This condition is more common among those who are obese, pregnant, or who have a family history of the problem.

In addition to a complete medical history and physical examination, diagnostic procedures for chronic venous insufficiency may include duplex ultrasound and venogram. If measures such as elevating legs or compression stockings do not work, other treatment options include medications, sclerotherapy, or surgical procedures, such as ligation, vein repair or transplant, and minimally invasive subfascial endoscopic perforator surgery.

*Vein Center consultations and treatment can be scheduled at either location for your convenience. Call 855.827.2362 or visit [capitalhealthveincenter.org](http://capitalhealthveincenter.org).*

## CARDIOLOGY

The cardiology program at the Heart & Vascular Institute provides a full service center for diagnosis, treatment and prevention of heart disease. Our noninvasive and interventional cardiologists offer preventative services and diagnostic testing to evaluate a patient's overall lifestyle and identify the most appropriate treatment, often without surgery.

Among the non-invasive cardiology services we offer include:

- Cardiac CAT Scan
- Echocardiogram
- Stress Echocardiogram
- Electrocardiogram (EKG or ECG)
- Exercise Stress Testing
- Holter and Event Monitoring
- Exercise, Pharmaceutical and Nuclear
- Pacemaker Clinic
- Pediatric Echocardiogram
- Pediatric Electrocardiogram
- Stress Testing
- Tilt Table Test
- Transesophageal Echocardiogram (TEE)

In addition to extensive diagnostic and pulmonary tests, the Cardiac Catheterization Lab offers state-of-the-art digital technology and expert staff with experience performing:

- Coronary Angiography
- Left Ventricular Angiography
- Peripheral Angiography (diagnostic and interventional)
- Emergency Percutaneous Coronary Intervention (PCI) for Patients Having a Heart Attack

*For more information, visit the [Cardiology section on capitalheartandvascular.org](http://capitalheartandvascular.org)*



## CHEST PAIN CENTER




The Chest Pain Center at Capital Health Medical Center – Hopewell provides specialized care and treatment for heart attack patients, speeding up the triage and evaluation process and getting testing done faster. Capital Health Medical Center- Hopewell is the first hospital in the Mercer/Bucks County Region to receive full accreditation with PCI as a Chest Pain Center from the Society of Cardiovascular Patient Care.

Patients arriving at the emergency room with chest pain or symptoms that may be heart-related, trigger a Chest Pain Alert. Team members mobilize immediately to quickly assess the patient, conduct testing, and determine if acute intervention is needed. The most serious heart attacks are immediately taken to the Cardiac Catheterization Laboratory at Capital Health Medical Center – Hopewell where a life-saving stent may be placed into the blocked heart artery.

Capital Health also operates a unique pre-hospital alert system. Patients arriving by ambulance have an electrocardiogram performed in their homes, and if there is evidence of a heart attack, the Cardiac Catheterization Laboratory is mobilized immediately.

If you are not having a heart attack requiring immediate intervention but further testing and observation is needed to determine the cause of your symptoms or rule out a more serious condition, the Chest Pain Center offers an observation unit to monitor you without admitting you to the hospital. During your observation, our specially trained staff will monitor your heart while performing serial blood tests to check for heart muscle injury.



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If your blood work shows no damage, the physician may order a cardiac stress test. In most cases, stress testing is done prior to your discharge and the results are ready before you leave. Patients with low risk of the heart being the cause of their symptom leave the emergency department with a testing appointment.

Early symptoms of a heart attack can include:

- Nausea
- Feeling of fullness
- Shortness of breath
- Back pain
- Chest pressure, squeezing, or discomfort
- Anxiety
- Fatigue
- Jaw pain
- Pain that travels down one or both arm

People may also experience mild symptoms in the chest such as pressure, burning, aching or tightness. These symptoms may come and go until becoming constant and severe. **If you experience these early signs or symptoms of a heart attack, call 9-1-1.**

*For more information or to take the Society of Cardiovascular Patient Care's EHAC Oath, visit [capitalchestpain.org](http://capitalchestpain.org)*

## NEPHROLOGY

Our nephrologists diagnose and treat kidney diseases at Capital Health Regional Medical Center and Capital Health Medical Center – Hopewell. Our nephrologists are trained and board certified in internal medicine and nephrology, which gives them a wide scope of knowledge to be able to diagnose and treat kidney diseases as well as related conditions, such as hypertension. Our nephrologists also provide care for patients with kidney failure who require hemodialysis.

*To find a nephrologist, visit the “Find a Doctor” section on [capitalhealth.org](http://capitalhealth.org)*

## PODIATRY

When vascular conditions involve the supply of blood to the foot, ankle and related structures of the lower leg, it is necessary to consult a podiatrist to evaluate and treat complex problems.

Podiatrists at Capital Health Medical Center – Hopewell collaborate with other medical specialists within the Heart & Vascular Institute as part of our multidisciplinary model of full body heart and vascular testing and treatment.

*To find a podiatrist, visit the “Find a Doctor” section on [capitalhealth.org](http://capitalhealth.org)*



## CENTER FOR WOUND MANAGEMENT

The Capital Health Center for Wound Management offers a wide range of treatment for all chronic non-healing wounds. Our program treats diabetic, arterial, venous, pressure, traumatic and surgical wounds, or other types of wounds that have not shown signs of improvement.

The Center provides a comprehensive evaluation with a multidisciplinary team consisting of a vascular surgeon, infectious disease physicians, podiatrists and nurses certified in wound care. Our team works with the patient's physician to develop a plan accounting for all aspects of patient health before determining course of treatment.

### CENTER FOR HYPERBARIC MEDICINE

Hyperbaric oxygen therapy is a medical treatment that allows patients to breathe 100% oxygen while lying inside a pressurized chamber. This hyperbaric, or high pressure, dose of oxygen provides therapeutic benefits and is used to treat a variety of illnesses.



As part of the Center for Wound Management, our hyperbaric treatment facility is managed by a multidisciplinary team including pulmonary and infectious disease specialists.

*To learn more about the Center for Wound Management, visit [capitalheartandvascular.org](http://capitalheartandvascular.org) and click on Wound Management or call 609.537.7457.*

## QUARTERLY CARDIOVASCULAR SCREENING EVENTS

Led by experts from the Capital Health Heart & Vascular Institute, join us for one of our free quarterly seminars to learn ways to prevent cardiovascular disease, and make an appointment for free screenings on the next day. Free screenings include, but are not limited to:



- Carotid Artery Duplex
- Varicose Vein Inspection
- Abdominal Aortic Ultrasound
- Blood Pressure and Cholesterol Testing
- Lower Extremity Pulse Examination

Our goal at our free screening events is to not only identify a potential life threatening condition but

to educate the community on how to reduce the risk of developing these problems and seek appropriate care if they exist.

*You must attend the seminar to be eligible for the screenings.  
Call 609.394.4153 to sign up for our next event.*



## ABOUT CAPITAL HEALTH

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Capital Health is the region's leader in advanced medicine. With two hospitals in Trenton and Hopewell Township, as well as an outpatient care facility in Hamilton Township, Capital Health is a growing organization dedicated to providing quality healthcare.

Capital Health remains community-focused by bringing advanced technologies and leading physicians to its locations throughout central New Jersey and Buck's County, PA.

The Heart & Vascular Institute, based at Capital Health Medical Center – Hopewell, comprises seven centers and specialties devoted to diagnosis and treatment of the full scope of cardiopulmonary and vascular conditions.

Contact the Capital Health Heart & Vascular Institute for more information or to schedule an appointment.

1.855.VASCDOC  
(1.855.827.2362)  
[capitalheartandvascular.org](http://capitalheartandvascular.org)



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Capital Health Medical Center — Hopewell  
One Capital Way  
Pennington, NJ 08534



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more about the Capital Health  
Heart & Vascular Institute.*

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