The Gill Heart and Vascular Institute unites high quality clinical heart care with leading-edge heart health research and is becoming one of the top public cardiovascular facilities in the nation. By applying our research successes to clinical care, our high-ranking doctors and staff provide patients with the most modern and technologically advanced concepts of heart and circulatory health.

The Institute provides a central focus for cardiovascular disease care, including outpatient clinics, non-invasive cardiac diagnostics and invasive cardiac techniques, such as cardiac catheterization, angioplasty and electrophysiology. It serves as a base for the physicians providing this care and a special focus on counseling cardiac patients and their families. The Institute’s clinical programs target the high incidence of heart disease in Kentucky, while the research and teaching programs work to advance cardiovascular care throughout the world.

**CLINICAL TEAMS**

- Adult Congenital Heart Program
- Advanced Cardiovascular Imaging
- Affiliate Network
- Anticoagulation Consult Service
- Aortic Center
- Cardiac Catheterization and Interventions
- Cardiac Intensive Care
- Cardiothoracic (CT) Surgery
- General Cardiology
  - Cardiac Rehabilitation and Wellness
  - Heart Attack Emergency Care
- Heart Failure, VAD Transplant Program
- Heart Rhythm Program
- Lipid Management
- Peripheral Arterial Disease (PAD)
- Pulmonary Hypertension
- Structural and Valvular Heart Program
- Vascular and Endovascular Surgery
  - Vein Clinic
- Women’s Heart Health
GILL HEART AND VASCULAR INSTITUTE

SPECIALTIES

• Ablations
• Adult congenital heart surgery
• Advanced techniques in complex aortic and vascular surgery
• Angioplasty
• Arrhythmia management
• ASD/PFO closures
• Atherectomy
• Biventricular pacing
• Cardiac imaging
• Cardiogenic shock
• Cardiopulmonary Rehabilitation Program
• Cardiovascular imaging
• Cardioversion pacemakers
• Carotid artery treatment
• Complex heart valve repair and replacement
• Complex rhythm mapping and evaluation
• Complex vascular reconstructive procedures
• Comprehensive revascularization with off-pump and minimally invasive techniques
• Cryoablations
• Diagnostic catheterizations
• Echocardiography (transthoracic, transesophageal)
• Endovascular treatment of abdominal and thoracic aneurysms
• Endovascular treatment of occlusive disease involving cerebrovascular, renal, mesenteric, and lower extremities
• Heart and lung transplantation
• Heart attack emergency care
• Holter monitoring
• ICD checks and programming
• ICD implants
• Interventional cardiology
• Intravascular ultrasound
• Mechanical circulatory support and ventricular assist devices
• Minimally invasive treatment of venous disease
• Non-invasive vascular testing (ABI, carotid duplex, venous duplex, renal duplex)
• Pacer implants
• Peripheral vascular interventions
• Pulmonary embolism
• Pulmonary hypertension
• Renal stents
• Rotoblator
• Stents
• Stress testing
• Surgery for cardiomyopathy and end-stage heart failure
• Transtelephonic event recorders
• Transtelephonic pacemakers checks
• Venous thrombosis treatment with EKOS® and AngioVac
• X-rays
ADULT CONGENITAL HEART PROGRAM

ANDREW R. LEVENTHAL, MD, PhD
Medical Director

The Kentucky Adult Congenital Heart (KACH) Program at the Gill Heart and Vascular Institute is the only such program in Central and Eastern Kentucky. Our experts provide personalized, adult-focused care and treatment of congenital heart defects.

Adults born with heart defects face unique challenges. They outgrow their pediatric cardiologists, but their heart problems can be very different from cardiac conditions that begin during adulthood.

Our KACH Program is led by Andrew R. Leventhal, MD, PhD, one of only a few adult congenital heart disease specialists in the nation. With broad cardiovascular disease experience—including heart valve repair, structural heart conditions and interventional cardiology—he provides personalized, expert management and treatment of unique congenital heart conditions.

SERVICES

- Advanced imaging capabilities and expertise in congenital heart disease
- Echo technicians certified in congenital heart
- Joint clinic with adult and pediatric cardiology
- Partnership with Cincinnati Children’s Hospital

PHYSICIANS

Andrew R. Leventhal, MD, PhD
James A. Quintessenza, MD
Douglas J. Schneider, MD

NIGHT TIMES:

For current information, visit ukhealthcare.uky.edu

UK•MDs | 800-888-5533
ADVANCED CARDIOVASCULAR IMAGING

PATIENT APPOINTMENTS
Call 859-323-9729
Fax 859-257-8699

CLINIC LOCATION
Gill Heart and Vascular Institute
UK Chandler Hospital, Pavilion G
Ground Floor, Room G100
1000 S. Limestone
Lexington KY 40536-0602
Call 859-323-9729
Fax 859-257-8699

MAILING ADDRESS
College of Medicine
Department of Radiology
UK Chandler Hospital, HX320
800 Rose St.
Lexington KY 40536

PHYSICIANS
Michael A. Brooks, MD
Stephen B. Hobbs, MD
John R. Kotter, MD
Steve W. Leung, MD
M. Elizabeth Oates, MD
Mikel D. Smith, MD, FACC
Vincent L. Sorrell, MD, FACP, FACC
Michael A. Winkler, MD,
FSCCT, FICA
Marianna Zagurovskaya, MD

PATIENT APPOINTMENTS
Call 859-323-9729
Fax 859-257-8699

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Mikel D. Smith, MD, FACC
Vincent L. Sorrell, MD, FACP, FACC
Michael A. Winkler, MD,
FSCCT, FICA
Marianna Zagurovskaya, MD

With high quality cardiac imaging in all diagnostic arenas (Echo, Nuclear, MRI, & CT), Gill’s advanced cardiovascular imaging provides timely, accurate diagnoses that are patient specific and adhere to the Choosing Wisely Campaign which advocates reducing unnecessary invasive procedures.

The Gill’s Adult Echo Lab has a long-standing commitment to providing excellent care and education to people in Kentucky. Accredited by the Inter-societal Accreditation Commission for Echocardiography (ICAEL), the echo lab upholds the highest standards. All of our interpreting cardiologists are certified by the National Board of Echocardiography and have more than 130 combined years of cardiac sonographer experience in echocardiography.

SPECIALTIES
• Cardiovascular MRI (CMR) stress examinations
• Computed Tomography (CT) using a 384 slice dual detector system
• Echocardiography (transthoracic, transesophageal)
• LV strain imaging
• Magnetic Resonance Imaging (MRI) of the heart and great vessels for adult and pediatric patients with two MRI Scanners: 1.5 Tesla and 3.0 Tesla
• MRI scans in certain patients with pacemakers and ICDs
• Nuclear stress testing
• Pharmacologic stress MRI
• Real-time, 3-D time-resolved MRA

SERVICES
• Collaboration between UK faculty cardiologists and radiologists
• Exercise and pharmacologic perfusion imaging studies at the Gill Heart Physiology and Nuclear Lab
• Routine 3-D volumetric, functional, contrast viability studies
• Support for Gill Heart Structural and Valvular Heart Program
Our cardiologists provide the region’s most comprehensive services, diagnostic assessment, and therapeutic strategies at approximately 15 locations in Kentucky and even beyond the state’s borders in West Virginia. Working closely with local physicians and hospitals, we help broaden treatment options by providing access to the latest therapeutic advances, whether it’s providing a much-needed specialist in the local community, remote interpretation of testing or accepting transfers of critically ill patients at UK Chandler Hospital in Lexington, Kentucky.

For a listing of our affiliate network cardiologists and their locations, visit ukhealthcare.uky.edu/gill/locations.

**PATIENT APPOINTMENTS**

Call 859-323-0295 or 877-700-5479
To speak to an outreach clinic staff member, call 859-323-8912.

**OUTREACH LOCATIONS**

Danville
Ephraim McDowell Regional Center
Huntington, WV
Marshall University
Louisville
Norton Audobon Hospital
Morehead
St. Claire Regional Medical Center
Mount Vernon
Rockcastle Regional Hospital

**AFFILIATE PARTNERS**

Cynthiana
Harrison Memorial Hospital
Georgetown
Georgetown Community Hospital
Harlan
Harlan ARH Hospital
Hazard
Hazard ARH Regional Medical Center
Hyden
Mary Breckinridge ARH Hospital
Manchester
Manchester Memorial Hospital
McDowell
McDowell ARH Hospital
Middlesboro
Middlesboro ARH Hospital

**AFFILIATE PHYSICIANS**

Adnan Bhopalwala, MD
Syed Bokhari, MD
Padubidri Chandrashekar, MD
Kenneth Dulnuan, MD
Georges Dumaa, MD
Salahadin Gharad, MD
Keerthana Karumbaiah, MD
Pablo Lopez, MD
William Minteer, MD
Lynda Otalvaro, MD
Ali K. Salah, MD
Ehtesham UiHaq, MD

**2016 GILL HEART INSTITUTE OUTREACH LOCATIONS & AFFILIATIONS**

South Williamson
Tug Valley ARH Regional Medical Center
Whitesburg
Whitesburg ARH Hospital
Winchester
Clark Regional Medical Center

❤ Outreach Clinics
❤ Affiliate Partners

For current information, visit ukhealthcare.uky.edu
The Gill Heart and Vascular team recently established a multidisciplinary anticoagulation and thrombosis team (MAC) to promote optimal clinical outcomes and minimize adverse events associated with these high-risk medications. The anticoagulation and thrombosis team began as a unique inpatient service with members drawn from a group of subspecialty trained pharmacists and physicians with expertise in vascular medicine. The service suggests the most appropriate anti-coagulation therapy for individual patients, including duration and monitoring. It provides key continuity between the hospital and ambulatory settings for high-risk patients.

For an urgent anticoagulation consult for your patient, call UK•MDs at 800-888-5533.

SERVICES
- Consultative service
- Follow-up with the established monitoring plan
- Medication reconciliation
- Patient education
- Perioperative management
- Pulmonary embolisms response team (PERT) management
- Transition of care clinic

PHYSICIANS
George A. Davis, PharmD
Susan S. Smyth, MD, PhD, FACC
Eleftherios S. Xenos, MD, PhD, FACS, RVT
ERIC D. ENDEAN, MD
Director

The Aortic Center’s faculty are leaders in the treatment of vascular disorders of the arterial, venous, and lymphatic system, including treatment of cerebrovascular disease, aneurysmal and occlusive disease of the aorta, iliac, and peripheral arteries. UK houses an advanced and nationally certified vascular laboratory dedicated to ultrasound and imaging tests. Together with state-of-the-art computerized tomography and MRI technology, our vascular imaging capabilities enable the diagnosis and severity of vascular disease before any invasive procedure is undertaken. Many vascular surgeries are performed in UK’s state-of-the-art hybrid operating room, which is equipped to treat the most complex vascular conditions. The hybrid catheterization operating suite is the only one of its kind in the region. Our doctors perform both open surgery and catheter-based procedures guided by fluoroscopy and ultrasound in the hybrid suite.

SPECIALTIES
• Advanced techniques in complex aortic surgery
• Endovascular treatment of abdominal and thoracic aneurysms
• Endovascular treatment of occlusive disease involving cerebrovascular, renal, mesenteric and lower extremities
• Intravascular ultrasound
• Peripheral vascular interventions

PHYSICIANS
Joseph L. Bobadilla, MD, FACS
Eric D. Endean, MD, FACS
Amy L. Lipscomb, MD, FACS
David J. Minion, MD, FACS
Nathan T. Orr, MD
Hassan K. Reda, MD
Michael E. Sekela, MD, FACS
Mary B. Sheppard, MD
Eleftherios S. Xenos, MD, PhD, FACS, RVT

SERVICES
• Basic and translational research
• Endovascular repair
• Open repair
ADRIAN W. MESSERLI, MD
Director, Cardiac Catheterization Laboratories

Cardiac Catheterizations and Interventions use four state-of-the-art catheterization laboratories situated in 20,000-square-feet on the second floor of the Gill building. Our team of cardiologists, nurses, pharmacists, and technicians employ sophisticated technologies for complex cases safely with exceptional outcomes. UK’s contributions to interventional cardiology are not new—intravascular ultrasound imaging of human coronary arteries began at UK in the late 1980s. We have been involved in transcatheter approaches to valve disease since 1985. Our interventional cardiology training program was one of the first established in the country.

As a tertiary center, the cardiac catheterization laboratory performs complex coronary interventions. In addition to standard coronary angioplasty, we have special expertise in the more complex interventional approaches providing a higher level of diagnostic accuracy. We often use the radial approach because it offers greater comfort during the procedure and facilitates earlier ambulation after the procedure. Approximately 80% of our diagnostic cases and 50% of our interventional coronary procedures are performed via the radial artery.

UK interventional cardiologists are highly experienced in peripheral and cerebrovascular interventional procedures. Many procedures are referred to the Gill from other hospitals because they require innovative approaches such as, transpopliteal access, subintimal dissection with ultrasound-guided re-entry, and/or atherectomy. We also perform extra-cranial cerebrovascular interventions including subclavian, vertebral, and carotid angioplasty and stenting. Our team has been part of the national FDA-mandated registry that examined the outcomes of carotid stenting following approval of devices for clinical use. Our team is committed to the highest technical success and always puts patient safety first.
PAUL ANAYA, MD, PhD
Director

Cardiovascular and cardiothoracic surgical patients are cared for in specially equipped acute-care beds on a dedicated floor of the UK Chandler Hospital.

Our multidisciplinary cardiovascular team is committed to providing patient-centered care using leading-edge therapies with the safest approaches backed up by the latest research. Each treatment is designed for the patient’s individual needs. The goal is to have patients stable and moved to a less intensive care environment in the hospital to complete the healing process. About 150 nursing and clinical staff, physical therapists and social workers provide superb clinical care of patients in both the ICU and on the heart floor.

The centerpiece of clinical cardiology at the Gill Heart and Vascular Institute is the Cardiovascular and Thoracic Intensive Care Unit (CVT-ICU), where we treat patients who are undergoing life-saving medical and surgical treatments. Our inpatient unit is staffed with highly trained and highly experienced nurses with advanced certification.

Our leading-edge technology includes:

- Hypothermia for sudden cardiac death
- Extracorporeal membrane oxygenation (ECMO)
- Implantation of heart-assistance devices or an artificial heart
- Catheter-delivered therapy to dissolve blood clots in the lung (pulmonary embolus)

PHYSICIANS

Paul Anaya, MD, PhD  
David C. Booth, MD  
John R. Kotter, MD  
Adrian W. Messerli, MD  
Susan S. Smyth, MD, PhD, FACC  
Gretchen L. Wells, MD, PhD  
Khaled M. Ziada, MD

For current information, visit ukhealthcare.uky.edu
GILL HEART AND VASCULAR INSTITUTE

CARDIOTHORACIC SURGERY

SIBU P. SAHA, MD, MBA, FACS
Chief, Division of Cardiothoracic Surgery
Director, Cardiothoracic Surgery Team

At UK, surgeons collaborate with researchers and clinicians at the Markey Cancer Center, UK Transplant Center and the Saha Cardiovascular Research Center. With this bench-to-bedside approach, we continually improve and advance surgical techniques so that patients with complex and advanced diseases can live more productive and fulfilling lives. As UK HealthCare has grown, the scope and breadth of CT surgery has expanded exponentially and our cardiovascular services are more comprehensive, with a higher level of expertise. Our faculty also provides CT surgery to underserved communities in eastern Kentucky. Our collaboration with Appalachian Regional Healthcare continues to expand as we enhance clinical services and educational opportunities to clinicians in the region.

SPECIALTIES

- Adult congenital surgery
- Adult vascular surgery
- Ambulatory extracorporeal membrane oxygenation (ECMO)
- Arrhythmia surgery (MAZE)
- Beating heart operations
- Cardiac assist devices
- Complex, reoperative surgeries
- Coronary bypass surgery
- Endobronchial ultrasound biopsy (EBUS) for staging of lung cancer
- Endovascular procedures, including repair of aneurysms
- General thoracic surgery
- Heart and lung transplantation
- Heart failure patients
- Lung and esophageal surgery
- Lung cancer
- Major aortic surgery
- Minimally invasive approach to left atrial appendage (LAA) exclusion
- Minimally invasive MAZE procedure for treatment of atrial fibrillation
- Multiple modality treatment of resectable esophageal cancer
- Navigational bronchoscopy
- Perfusion-induced systemic hyperthermia for advanced lung cancer
- Peripheral vascular surgery
- Robotic (da Vinci®) surgery
- Robotic surgery for mediastinal tumor
- Severe respiratory failure
- Total artificial heart (TAH)
- Transcatheter aortic valve replacement (TAVR)
- VAT-assisted esophageal surgery
- Ventricular restorative procedures
- Video-assisted lung surgery

PATIENT APPOINTMENTS
Call 859-323-6494
Fax 859-278-4836 or 859-257-4682

PHYSICIANS
Heart
James A. Quintessenza, MD
Hassan K. Reda, MD
Sibu P. Saha, MD, MBA, FACS
Alexis E. Shafii, MD
Michael E. Sekela, MD, FACS
Paul B. Tessmann, MD, PharmD
Theodore S. Wright, MD

Lung
Maher A. Baz, MD
Victor A. Ferraris, MD, PhD, FACS
Angela L. Mahan, MD
Jordan D. Miller, DO
Timothy W. Mullett, MD, FACS
Hassan K. Reda, MD
Alexis E. Shafii, MD
Joseph “Jay” B. Zwischenberger, MD, FACS
CLINIC LOCATIONS

Gill Heart and Vascular Institute
UK Chandler Hospital, Pavilion G
First Floor, Room G100
1000 S. Limestone
Lexington KY 40536
Call 859-323-6494
Fax 859-278-4836

Cardiothoracic Surgery Clinic
Kentucky Clinic
Third Floor, Room L300
740 S. Limestone
Lexington KY 40536-0284
Call 859-323-6494 or 800-365-0955
Fax 859-257-9813

Kentucky Children’s Hospital Congenital Heart Clinic
Kentucky Clinic
Second Floor, Wing D, Room L203
740 S. Limestone
Lexington KY 40536-0284
Call 859-323-6754
Fax 859-323-3499

Multidisciplinary Lung Cancer Program
Markey Cancer Center
800 Rose St.
Lexington KY 40536
Call 859-253-5864 or 866-540-4488

UK Transplant Center
Kentucky Clinic
Third Floor, Wing D, Room J301
740 S. Limestone
Lexington KY 40536-0284
Call 859-257-8562
Fax 859-323-1700

Ephraim McDowell Commonwealth Cancer Center
520 Techwood Drive, Suite 100
Danville KY 40422
Call 859-323-6494

Rockcastle Regional Hospital and Respiratory Care Center
145 Newcomb Ave.
Mt. Vernon KY 40456
Call 866-940-4938

MAILING ADDRESS
Department of Surgery
Division of Cardiothoracic Surgery
Kentucky Clinic, A301
740 S. Limestone
Lexington KY 40536-0284
GILL HEART AND VASCULAR INSTITUTE

GENERAL CARDIOLOGY

PATIENT APPOINTMENTS
Call 859-323-0295
Fax 859-257-8699

CLINIC LOCATIONS
Gill Heart and Vascular Institute
UK Chandler Hospital, Pavilion G
1000 S. Limestone
Lexington KY 40536-0602
Call 859-323-0295

UK Good Samaritan
Medical Office Building
125 E. Maxwell St., Suite 200
Lexington KY 40508
Call 859-323-0295
Fax 859-257-9461

UK HealthCare - Georgetown
Georgetown Community Hospital
1140 Lexington Road, Suite 105
Georgetown KY 40324
Call 502-863-3303

Clark Regional Physician Practices
225 Hospital Drive, Suite 300A
Winchester KY 40391
Call 859-737-6555

Lake Cumberland
Cardiology Associates
120 Trademark Drive, Suite B
Somerset KY 42503
Call 606-678-0599

General cardiology services at the Gill Heart and Vascular Institute include preventive cardiology, sophisticated diagnostic and treatment services, and referrals to one of our specialized cardiology programs. Our team specializes in collaboration, bringing together physicians from all areas of cardiology for diagnosis and a treatment program individualized for each patient.

The Gill Heart and Vascular Institute is a dedicated cardiovascular center that provides all care in the same location, including clinics, non-invasive cardiac diagnostics; and interventional cardiac techniques such as cardiac catheterization, angioplasty and electrophysiology. Our faculty and staff focus on counseling cardiac patients and their families as well as the patient’s medical needs.

Cardiac Rehabilitation and Wellness
UK’s Cardiac Rehabilitation and Wellness Program offers a comprehensive program of medical evaluation, supervised exercise, risk-factor modification, and medication optimization to improve survival and lower risk of another cardiac event.

SPECIALTIES
- Echocardiogram
- Electrocardiogram (ECG or EKG)
- Holter monitoring
- Lipid management
- Risk reduction
- Signal averaged electrocardiogram (SAE)
- Stress test
- Transesophageal echocardiogram (TEE)

PHYSICIANS
Meenakshi A. Bhalla, MD, FACC
Craig A. Chasen, MD
Leo G. Horan, MD
Rick R. McClure, MD
Sarah S. Rugg, MD
Georgetown
Joseph E. Thomas, MD
Somerset
Michael E. McKinney, MD
Winchester
Charles R. Salters Jr., MD

For current information, visit ukhealthcare.uky.edu
GILL HEART AND VASCULAR INSTITUTE

HEART ATTACK EMERGENCY CARE

ADRIAN W. MESSERLI, MD
Director, Cardiac Catheterization Laboratories

KHALED ZIADA, MD
Director, Interventional Services

The Gill Heart physicians and UK Emergency Department faculty and staff work closely with community first responders when patients have symptoms of a heart attack. Paramedics notify UK HealthCare that their patient has an S-T elevation indicative of a myocardial infarction. The cardiac team, responsible for cardiac catheterizations is immediately notified.

Paramedics are able to bypass the emergency department and the patient is brought directly to the heart catheterization suite. Being able to bypass the emergency department shortens the door to balloon time and allows for faster treatment and often less heart damage. The patient is treated in the Cath Lab with stenting or admitted for other interventions as needed.

The physicians and staff at Gill Heart are prepared to treat heart damage with the latest therapies ranging from medications, stenting, coronary artery bypass, ventricular assist devices, and artificial heart or heart transplant. We have excellent physicians and imaging technology and are able to diagnosis and treat the patient appropriately.

The American Heart Association recognized this hospital in 2016 for achieving 85% or higher composite adherence to all Mission: Lifeline® STEMI Receiving Center Performance Achievement Indicators for consecutive 90-day intervals and 75% or higher compliance on all Mission: Lifeline® STEMI Receiving Center quality measures to improve the quality of care for STEMI patients.

SPECIALTIES

- Angioplasty
- Atherectomy
- Carotid stenting
- Complex vascular reconstructive procedures
- Comprehensive revascularization with off-pump and minimally invasive techniques
- Cryoablations
- Diagnostic catheterizations
- Renal stents
- Rotoblator
- Stents
GILL HEART AND VASCULAR INSTITUTE

HEART FAILURE, VAD AND TRANSPLANT TEAM

Maya E. Guglin, MD, Medical Director, VAD Program
Navin Rajagopalan, MD, Medical Director, Heart Transplant
Michael E. Sekela, MD, FACS, Surgical Director, Heart Transplant
Alexis E. Shafii, MD, Surgical Director, Lung Transplant

The Advanced Heart Failure, Ventricular Assist Device and Transplant Team at UK HealthCare offers a comprehensive and multidisciplinary approach to the treatment of heart disease. Our program combines highly trained and renowned physicians and state-of-the-art technology. We bring together a team of experts from all areas of cardiology to diagnosis and treat heart failure.

Monitoring Heart Failure Patients
To help patients better monitor pulmonary artery pressure, cardiologists at the Gill Heart and Vascular Institute are the first in Kentucky to adopt a new diagnostic device, the CardioMEMS™ Heart Failure System. The CardioMEMS™ Heart Failure System uses a miniaturized, wireless monitoring sensor that is implanted in the pulmonary artery during a minimally invasive procedure. The system allows patients to transmit pulmonary artery pressure data from their homes to clinicians at the Gill Heart and Vascular Institute, allowing for personalized and proactive management to reduce the likelihood of hospitalization.

Heart Transplant and Ventricular Assist Devices
For patients with heart failure who cannot be successfully treated with medical therapy, heart transplantation should be considered. UK HealthCare has performed more than 200 heart transplants in its history with excellent results. Consideration of heart transplantation requires a consultation with members of our transplant team, including a transplant cardiologist, a cardiothoracic surgeon, a social worker and a transplant coordinator. UK HealthCare also has an advanced ventricular assist device (VAD) program. VADs are surgically implanted pumps that can assist the failing heart allowing patients to feel better.

SPECIALTIES
- CardioMEMS® for remote monitoring
- CentriMag®, VAD
- ECMO (neonatal, pediatric, adult certified)
- Heart and lung transplantation
- Heart/lung combined transplant
- HeartMate II® LVAD
- HeartWare® LVAD
- Heart transplant
- Impella®
- Mechanical circulatory support and ventricular assist devices
- Surgery for cardiomyopathy and end-stage heart failure
- Total artificial heart – historic
The Gill Heart and Vascular Institute’s Heart Rhythm Program brings together a team of certified cardiac electrophysiologists, cardiovascular surgeons, cardiologists and cardiac anesthesiologists for the management and treatment of cardiac rhythm disorders. Our services include implantation of MRI-compatible pacemakers, implantable cardioverter defibrillators (ICDs), including biventricular devices, device extraction and advanced ablation procedures for rhythm disturbances such as atrial fibrillation (AF), atrial flutter, supraventricular tachycardia or ventricular tachycardia. Our highly skilled team utilizes the latest technology to perform procedures such as robotic systems, magnetic catheter guidance, or the latest 3-D mapping technology.

Rhythm disturbances are highly complex and treatment is based on multiple factors, such as the patient’s symptoms, co-morbidities or the clinical context. Research has shown catheter ablation to be superior to medical therapy in preventing atrial fibrillation (AF) episodes and potentially improving quality of life and heart function for the appropriate patient. For patients whose atrial fibrillation (AF) cannot be managed through medications or catheter-based ablation, the minimally invasive video-assisted MAZE procedure may be recommended.

**SPECIALTIES**

- Ablations (atrial and ventricular) catheter-based and surgical
- Arrhythmia management
- Atrial fibrillation
- Biventricular pacing
- Cardioversion pacemakers
- Complex arrhythmias
- Complex rhythm mapping and evaluation
- Electrocardiogram (EKG)
- Holter monitoring
- ICD checks and programming
- ICD implants
- Lead management (including complex extraction)
- Left atrial appendage occlusion
- Pacemaker interrogation and programming
- Pacer implants
- Transtelephonic event recorders
- Transtelephonic pacemakers checks
- VT ablation

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**PATIENT APPOINTMENTS**

Call 859-323-0295  
Fax 859-257-8699

**CLINIC LOCATION**

Gill Heart and Vascular Institute  
UK Chandler Hospital, Pavilion G  
1000 S. Limestone  
Lexington KY 40536-0602  
Call 859-323-0295  
Fax 859-257-8699

**PHYSICIANS**

Yousef Hadi Darrat, MD  
Samy Claude Elayi, MD  
Gustavo X. Morales, MD  
Theodore S. Wright, MD
LIPID MANAGEMENT

Our general cardiologist team work to decrease the risk of heart disease by lowering harmful cholesterol levels. Our physicians often recommend patients make lifestyle changes, such as quitting tobacco products, eating a diet lower in fat, exercising and losing weight. If lipid levels do not improve after three months of lifestyle changes or if a person has coronary heart disease or blood lipid levels that are thought to be genetically determined, medication is also considered.

CLINIC LOCATION
Gill Heart and Vascular Institute
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Call 859-323-0295
Fax 859-257-8699

PHYSICIAN
Thomas F. Whayne Jr., MD, PhD

PERIPHERAL ARTERIAL DISEASE

Gill Heart and Vascular Institute’s vascular disease specialists are devoted to preventing and treating blood vessel conditions such as peripheral arterial disease (PAD). Our team includes cardiologists with extensive endovascular experience, vascular and endovascular surgeons, and imaging experts trained in diagnosing vascular diseases.

We have an advanced and nationally certified vascular laboratory dedicated to ultrasound and imaging tests and the latest computerized tomography (CT) and magnetic resonance imaging (MRI) technology. This technology allows us to diagnose PAD and its severity before performing any invasive procedure.

UK interventional cardiologists and vascular surgeons operate in state-of-the-art hybrid operating rooms and catheterization laboratories equipped with all the tools needed to treat the most complex vascular problems.

PHYSICIANS
Ahmed K. Abdel-Latif, MD
Joseph L. Bobadilla, MD, FACS
Eric D. Endean, MD, FACS
Amy L. Lipscomb, MD, FACS
Adrian W. Messerli, MD
David J. Minion, MD, FACS
Nathan T. Orr, MD
Mary B. Sheppard, MD
Eleftherios S. Xenos, MD, PhD, FACS, RVT
Khaled M. Ziada, MD
GILL HEART AND VASCULAR INSTITUTE

PULMONARY HYPERTENSION

DAVID C. BOOTH, MD
Medical Director

The Gill Heart and Vascular Institute provides the region’s only expertise in the management of pulmonary hypertension. Our program includes a multidisciplinary team of cardiologists, pulmonologists and nurse practitioners who work together to help patients who suffer from this condition. If a patient does not respond sufficiently to treatment, referral to our lung transplant specialists is provided.

The goal of medical treatment for pulmonary hypertension is to relieve symptoms, reduce the workload on the right ventricle and prolong life. Specific treatment will be determined based on the results of testing.

SERVICES
- Patient support group
- RHC with vasodilator challenge (NO, adenosine)
- Treatments including all forms of drug therapy and IV prostaglandins

PHYSICIANS
Paul Anaya, MD, PhD
David C. Booth, MD
Ketan P. Buch, MD, FCCP
Navin Rajagopalan, MD
GILL HEART AND VASCULAR INSTITUTE

STRUCTURAL AND VALVULAR HEART PROGRAM

JOHN C. GURLEY, MD
Director

The Gill’s Structural and Valvular Heart Program provides expert diagnosis and treatment by cardiologists and surgeons. Our program encompasses a large outpatient and inpatient service that treats all forms of valvular heart disease, both before and after repair. Based on the most recent cardiovascular research, our experts employ the latest tools and techniques for diagnosis and repair of diseased heart valves. We also offer new and less-invasive therapies for valvular disease.

UK’s heart valve team includes cardiologists, cardiac surgeons, advanced imaging specialists, cardiac anesthesiologists, nurse practitioners and care coordinators. The team performs transcatheter aortic valve replacement (TAVR).

TAVR and other minimally invasive heart valve procedures are performed in a state-of-the-art hybrid operating suite.

SPECIALTIES
- Aortic valve – TAVR, open, balloon valvuloplasty
- Complex heart valve repair and replacement
- Hypertrophic obstructive cardiomyopathy (HOCM) – septal ablation
- Left atrial appendage occlusion
- Mitral valve – open and robotic, balloon valvuloplasty
- Vascular access – innovative approaches
- Venous thrombosis treatment with EKOS® and AngioVac®
The UK HealthCare Vascular and Endovascular Surgery team offers a comprehensive array of treatment plans that varies from conservative management of the causes and risk factors of vascular disease to complex open and endovascular approaches. The types of vascular problems addressed include, but are not limited to: thoracic and abdominal aneurysms, carotid disease, renal artery disease and lower extremity arterial insufficiency. While both open and endovascular techniques are utilized for treatment of our patients, UK vascular surgery faculty are especially interested in translating the latest findings into minimally invasive surgical procedures for some of the most complicated cases in the region.

UK houses an advanced and nationally certified vascular laboratory dedicated to ultrasound and imaging tests. Together with state-of-the-art computerized tomography and MRI technology, our vascular imaging capabilities enable the diagnosis and severity of vascular disease before any invasive procedure is undertaken.

The vascular surgery faculty is actively involved in research pertaining to the development of endovascular techniques, acute mesenteric ischemia, effects of obesity on surgical outcome, and treatment of aneurysms. They are joined by basic and translational investigators with international recognition in developing preclinical models for studying the development and progression of abdominal aneurysms. The UK Vascular Surgery Vein Institute, located at UK Good Samaritan Hospital, provides comprehensive management of venous disorders. A Wound Clinic is also offered at Good Samaritan Hospital.

**SPECIALTIES**

- Ankle-brachial index (ABI) testing
- Aortic aneurysms
- Atherectomy
- Carotid artery disease
- Carotid stenting
- Diabetic ulcers
- Endovascular surgery
- Femoral aneurysms
- Hemodialysis access
- Ischemic nephropathy
- Lymphedema
- Mesenteric ischemia
- Minimally invasive treatment of venous disease
- Non-invasive vascular testing (ABI, carotid duplex, venous duplex, renal duplex)
- Occlusive disease
- Peripheral arterial disease
- Renal artery disease
- Renal stents
- Stents
- Varicose veins
- Vascular surgery
- Vein ablations
- Venous insufficiency
- Venous reconstructive surgery
- Venous stasis
VASCULAR AND ENDOVASCULAR SURGERY
VEIN CLINIC

UK Vascular Surgery’s Vein Clinic is located at UK Good Samaritan Hospital. We provide comprehensive management of venous disorders including venous insufficiency, minimally invasive treatment of varicose veins, cosmetic treatment of spider veins and telangiectasias. The clinic is also available for consults on a variety of vein-related problems, including:

- Varicose veins
- Venous insufficiency
- Venous stasis
- Sclerotherapy

CLINIC LOCATION
Vein Clinic
UK Good Samaritan
Medical Office Building
125 E. Maxwell St., Suite 302
Lexington KY 40508-2678
Call 859-218-2773

PATIENT APPOINTMENTS
Call 859-218-2773

PHYSICIANS
Joseph L. Bobadilla, MD, FACS
Amy L. Lipscomb, MD, FACS
David J. Minion, MD, FACS
Nathan T. Orr, MD
Eleftherios S. Xenos, MD, PhD, FACS, RVT

For current information, visit ukhealthcare.uky.edu
The Gill Heart and Vascular Institute’s Women’s Heart Health Program addresses the unique cardiac needs of women with a specially tailored program. It’s a comprehensive approach that provides individualized heart care for women by women physicians, nurses and staff.

Heart disease is the leading cause of death among women in the United States, though most women are not aware of it. Women are normally not diagnosed until after they have had a major event because they delay seeking treatment.

Women who have diabetes are at much greater risk for coronary artery disease. Women with dyslipidemia (bad cholesterol) require special attention as the national guidelines for ideal cholesterol levels in women vary slightly from those in men. Furthermore, the role of hormone replacement therapy in women with coronary artery disease is complex and requires special attention by physicians and health care providers to stay current on the recommendations from emerging research.

The women providers at Gill’s Women’s Heart Health Program take a proactive approach in the cardiac care of women. This includes evaluation and treatment of the following:

- Cardiovascular disease in pregnancy
- Chest pain
- Congestive heart failure
- Coronary artery disease
- Hyperlipidemia
- Hypertension
- Microvascular heart disease
- Palpitations
- Syncope
- Valvular heart disease