Vanderbilt Heart and Vascular Institute (VHVI) has gone through a remarkable phase of change, growth and expansion. These developments include the creation of a hybrid OR, a synergy and collaboration between interventional cardiologists and cardiovascular surgeons. This pioneering facility optimizes the environment for cardiac surgery and is leading the path in minimally invasive cardiac surgery reducing recovery time and enhancing the quality of life for our patients.

Through an innovative partnership, Vanderbilt Heart and Vascular Institute and a number of regionally recognized physician leaders joined forces this past year to provide the most comprehensive services in cardiology, cardiac surgery and vascular surgery in the region. This combination of a premier cardiology practice and a leading academic medical center allows patients access to the most advanced therapies and technologies in a world class training and research facility.

The following are some of the unique services that we believe truly redefine the scope of cardiovascular care.

### Improving the lives of those in our community one heart at a time.

Douglas E. Vaughan, M.D., F.A.C.C  
*Chief, Division of Cardiovascular Medicine*

John G. Byrne, M.D.  
*Chairman, Department of Cardiac Surgery*

Thomas G. Di Salvo, M.D.  
*Medical Director, Vanderbilt Heart and Vascular Institute*

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### Septal Alcohol Ablation for Asymmetric Septal Hypertrophy Cardiomyopathy

Hypertrophic cardiomyopathy (HCM) is a disease characterized by progressive hypertrophy of the left (and sometimes right) ventricle. HCM is a relatively rare disorder, frequently hereditary in origin, and often associated with septal enlargement that may progress to outflow tract obstruction and disability. As an alternate to open-heart surgery, VHVI performs a percutaneous, catheter-based procedure in patients with severe, obstructive hypertrophic cardiomyopathy. Alcohol Septal Ablation involves performing a coronary angiogram to identify the anatomy of the septal coronary arteries, followed by an injection of ethanol in order to induce a septal infarct. The infarcted septum scars will reduce in size over several weeks which results in a larger ventricular outflow and the reduction of symptoms. This procedure can produce immediate and remarkable reductions in the severity of outflow obstruction and improvement of symptoms.

### Percutaneous Atrial and Ventricular Septal Defect Closure

Atrial septal defect often times permit oxygen-rich blood to be pumped back to the lungs. The defect can cause cardiac and pulmonary complications over time. We are able to repair many ASDs using a self-expanding, double disk device known as Amplatzer Septal Occluder, which is implanted across the defect via a catheter.

Patent Foramen Ovales (PFO) are relatively common and represent a failure of the atrial septum to seal completely after birth. To close the defect, our specialists use a PFO closure device that is implanted through a catheter via the femoral vein. The PFO closure device consists of two round, fine mesh webs that are implanted on either side of the foramen ovale.

PFOs and ASDs are among the most common congenital heart defects in adults. VHVI has five interventional cardiologists experienced in percutaneous approaches to PFO/ASD closure.

“We wanted to be a part of an institution that was committed to being on the forefront of cardiovascular care both clinical and investigational. As physicians we want to be able to tell our patients with confidence that they will not be able to receive care anywhere in the city or region as good as they will receive at VHVI.”

Mark Robbins, M.D.  
*Interventional Cardiology*
Areas of Unique Expertise

Stem Cell Therapy for Acute MI
Designated as one of five U.S. centers in National Heart, Lung and Blood Institute sponsored Cardiac Cell Therapy Research Network (CCTRN) for advanced heart disease, this clinical research program exemplifies VHVI’s commitment to innovation in research. The Institute began enrolling patients in a study for bone marrow stem cell therapy after acute myocardial infarction in late 2006. The new protocols will start soon for patients post MI or with chronic ischemia and ventricular dysfunction.

Chronic Total Coronary Occlusion (CTO) Intervention/Retrograde Approach
The use of new approaches that involve accessing epicardial collaterals (arteries) has significantly increased the success rate for Chronic Total Coronary Occlusion (CTO) procedures. One strategy involves an intragrate approach to the occlusion site through a collateral channel from any patent coronary artery. A successful recanalization of the coronary occlusion results in several positive outcomes – improved survival, enhanced left ventricular function, reduction in angina and improved exercise tolerance.

Cardiac Surgery
Through collaboration between cardiology and cardiac surgery, our physicians are able to provide innovative care, better outcomes and improved quality of life for patients with cardiovascular disease. Some of our more unique approaches to cardiac surgery are:

- Hybrid OR Approach to Complex Coronary Disease
- Minimally Invasive Mitral Valve Surgery
- Off-Pump Coronary Bypass Surgery
- Pump Supported High Risk Angioplasty
- Percutaneous Perivalvular Leak Closure
- Mitral and Aortic Balloon Valvuloplasty
- Percutaneous Valves Procedures
- Acute Aortic Dissection
- Pulmonary Embolism

"Physicians are excited about the prospects of cell therapy and other research initiatives. We have the potential to transform the ways we treat people with cardiac disease at Vanderbilt.”

Douglas Vaughan, M.D.
Chief of the Division of Cardiovascular Medicine.

Vascular

Integrated Vascular Medicine Program
A multidisciplinary program in vascular medicine links vascular surgeons, interventional cardiologists, preventive cardiologists and endocrinologists to provide the most comprehensive approach to vascular disease screening, prevention, diagnosis and therapy. VHVI can provide measures of thrombotic risk, oxidative stress, and vascular function that cannot be duplicated anywhere in the country.

Endovascular Procedures
This program focuses on the use of endovascular techniques and their role in the management of atherosclerotic and degenerative aneurismal diseases along with use of carotid artery stenting in

"One of the most important things we offer patients is collaboration of teams. Cardiology and Cardiac Surgery working together to offer multidisciplinary approaches for coronary artery and valvular heart disease.”

John Byrne, M.D.
Cardiac Surgery

"Through the expansion of our endovascular surgery program, we are continuing our commitment to be at the forefront of delivering new percutaneous procedures”

Thomas Naslund, MD,
Chief, Division of Vascular Surgery

To make a patient referral, coordinate a hospital transfer, or speak with a Vanderbilt Cardiovascular Physician:
(866) 886-2478 or (615) 343-9188
Fax: (615) 343-5234
Areas of Unique Expertise

Heart Failure/ Cardiac Transplantation

Cardiac Resynchronization
With an integrated, multidisciplinary approach linking heart failure clinicians, electrophysiologists, echocardiographers and cardiac surgeons, VHVI provides a multi-modality approach to optimization of cardiac resynchronization therapy in patients with severe, advanced heart failure.

Left Ventricular Assist Device (LVAD) Bridging to Transplantation
One of the first hospitals in the region to offer a potentially life-saving treatment option for severe heart failure patients too sick to undergo surgical interventions. The device can be inserted using a percutaneous technique in the Cath Lab without doing surgery. The device serves as a temporary bridge so that a patient can recover some life-sustaining degree of heart function prior to transplantation.

Tandem Heart Program
The first center in Tennessee to implant the TandemHeart device, a percutaneous left ventricular assist device, as a bridge to cardiac transplantation. This potentially life-saving device can provide temporary support for critically ill patients while awaiting transplant.

Arrhythmia Advanced ICD Programming to Reduce ICD Shocks
One of the major causes of morbidity in ICD patients is shocks following device implantation. Shocks can be reduced by improved standardized programming parameters that prevent inappropriate supraventricular tachycardia (STV) detections and by the use of antitachycardia pacing (ATP) to painlessly terminate monomorphic ventricular tachycardias (VT) as determined by an electrophysiologist. The delivery of ICD therapy required complex algorithmic programming of over 100 settings due to the device feature and capability enhancements. These algorithms provide high sensitivity and improved arrhythmia detection that allow our electrophysiologist to deliver optimizing ICD therapeutic efficacy and minimizing defibrillation shock.

Genetics of Atrial Fibrillation
One of VHVI’s Electrophysiology Programs, the Atrial Fibrillation Center, provides comprehensive diagnostic and therapeutic services including genetic screening and catheter-based and surgical approaches to ablation of atrial fibrillation.

Cardiac Imaging
VHVI’s Cardiac Imaging program provides high-quality, detailed images of cardiac and vascular anatomy, flow and function – typically in one patient visit. The diagnostic test can characterize and define inflammatory myopathic processes, congenital anatomy, cardiac masses, and pericardial diseases. Some of our more traditional diagnostic studies include echocardiogram, electrocardiogram (EKG or ECG) exercise testing or stress testing, and nuclear cardiac imaging (MUGA, MPI), while some of our more advanced imaging technology include the following:

Dedicated Cardiac MRI
The recent growth in the expanded cardiac MRI program provides patients with “one-stop shopping” – cardiac imaging, characterization of myocardial tissue viability, structure, and function and severity of valvular heart disease.
The past two years have been a period of dynamic change in the delivery of cardiovascular care in our region, and the phenomenal growth of the Vanderbilt Heart and Vascular Institute has been at the center of the stage. The administrative and institutional commitment to this endeavor has been truly unique. The size, depth and skills of the cardiovascular physician at Vanderbilt Heart and Vascular Institute that has resulted, in my opinion, is unrivaled in middle Tennessee and southern Kentucky in its collective credentials and the breadth and array of care options for our many patients. I am proud, and grateful, to be a part of this great endeavor alongside my sixty plus VHVI physician colleagues and our many dedicated nursing and administrative support personnel.

We have all shared a vision for many years about what a Heart Institute can and should be; that dream is becoming reality at Vanderbilt University Medical Center. The bar has been raised for all of the cardiac health care professionals in the region, and the people of our region will be the ultimate beneficiaries, as they should be.”

Henry Jennings III, M.D.
Interventional Cardiology

Areas of Unique Expertise

Combined SPECT-CT Scanning
VHVI’s commitment to excellence in cardiac imaging extends to PET scanning, the “gold standard” in myocardial perfusion assessment conjunction with state-of-the-art cardiac CT imaging.

Enhanced Rubidium Nuclear Scanning for Increased Sensitivity
In non-invasive imaging, Cardiac Rubidium PET imaging has the highest sensitivity and accuracy in identifying significant coronary atherosclerotic disease. Rubidium PET can be extremely helpful in evaluating patients for significant CAD, especially in those where body morphology (e.g. obese, chest deformity) leads to a difficulty in image interpretation.

MI Network
VHVI has initiated an Acute Myocardial Infarction Network to provide a regional resource for patients in middle Tennessee. The MI Network allows patients who present to emergency rooms outside of Nashville with ST-segment elevation myocardial infarction (STEMI) to receive appropriate care within the recommended treatment window. This is vital in guaranteeing the coronary vessel is opened in a timely manner restoring normal blood flow to the heart, therefore decreasing damage to the heart.

Door to Balloon Time
Due to the concerted efforts of the emergency department, cardiac fellows, interventional cardiology physicians and catheterization laboratory staff, VHVI’s door-to-balloon time stands at a median 64 minutes, well below the recommended national target of 90 minutes.

“As medical director for the coronary intensive care unit, I joined Vanderbilt to lead a team providing superior critical pathways to care for our sickest patients.”

John McPherson, M.D.
Interventional Cardiologist

To make a patient referral, coordinate a hospital transfer, or speak with a Vanderbilt Cardiovascular Physician:
(866) 886-2478 or (615) 343-9188
Fax: (615) 343-5234
General Cardiology

Douglas E. Vaughan, M.D.
Professor of Medicine and Pharmacology
Chief, Division of Cardiovascular Medicine
M.D. Degree: University of Texas Southwestern Medical School, 1980
Post-Graduate Training: Parkland Hospital, Dallas; Brigham and Women’s Hospital, Harvard Medical School, Boston

W. Barton Campbell, M.D.
Professor of Medicine
M.D. Degree: University of Rochester
Post-Graduate Training: University of Colorado, Denver

Geoffrey Chidsey, M.D.
Assistant Professor of Medicine
MD Degree: Indiana University School of Medicine, 1994
Post-Graduate Training: Medical University of South Carolina, Charleston; Vanderbilt University Medical Center, Nashville

Andre L. Churchwell, M.D.
Assistant Professor of Medicine
M.D. Degree: Harvard University, 1979
Post-Graduate Training: Emory University, Atlanta

Keith B. Churchwell, M.D.
Assistant Professor of Medicine
Associate Medical Director, VHVI
M.D. Degree: Washington University, 1987
Post-Graduate Training: Emory University, Atlanta

Julie B. Damp, M.D.
Assistant Professor of Medicine
M.D. Degree: Vanderbilt University, 2001
Post-Graduate Training: Vanderbilt University Medical Center, Nashville

Jeffery M. Dendy, M.D.
Assistant Professor of Medicine
M.D. Degree: Vanderbilt University, 2000
Post-Graduate Training: Vanderbilt University Medical Center, Nashville

John H. Dixon, Jr., M.D.
Associate Professor of Medicine
M.D. Degree: Vanderbilt University, 1973
Post-Graduate Training: Vanderbilt University Medical Center, Nashville; Duke University Medical Center, Durham

Rand T. Frederiksen, M.D.
Assistant Clinical Professor
MD Degree: Washington University School of Medicine, 1967
Post-Graduate Training: Royal Post Graduate Medical School, Hammersmith Hospital (London, England); Kirk Army Hospital; Washington University School of Medicine; University of Texas Southwestern Medical Center at Dallas; University of Indiana Hospital

G. Christian Friesinger III, M.D.
Assistant Professor of Medicine
MD Degree: University of Tennessee, 1984
Post-Graduate Training: Louisiana State University Medical Center, New Orleans; Vanderbilt University Medical Center, Nashville

Francis A. (Drew) Gaffney, M.D.
Professor of Medicine
Professor of Medical Education and Administration
Associate Dean, Clinical Affairs
M.D. Degree: University of New Mexico, 1972
Post-Graduate Training: University of Texas Southwestern Medical Center, Dallas; University of Texas Southwestern Medical Center–Dallas; Cleveland Metropolitan General Hospital, Cleveland

David E. Hansen, M.D.
Associate Professor of Medicine
M.D. Degree: Cornell University, 1980
Post-Graduate Training: University of Chicago Hospitals and Clinics, Chicago; Stanford University, Stanford
Physician Directory

Charles C. Hong, M.D., Ph.D
Assistant Professor of Medicine
M.D. Degree: Yale University School of Medicine, 1998
Post-Graduate Training: Yale-New Haven Hospital, New Haven; Massachusetts General Hospital, Boston

Rob R. Hood, M.D.
Assistant Professor of Medicine
M.D. Degree: Tulane University, 1976
Post-Graduate Training: Emory University Affiliated Hospitals, Atlanta

Waleed N. Irani, M.D.
Assistant Professor of Medicine
Director, Outpatient Clinical Operations
M.D. Degree: University of North Carolina, 1990
Post-Graduate Training: University of Texas Southwestern Medical School, Dallas; Parkland Memorial Hospital, Dallas; Veterans Administration Medical Center, Dallas

Marvin W. Kronenberg, M.D.
Professor of Medicine and Radiology
Director, Heart Station
M.D. Degree: Ohio State University, 1969
Post-Graduate Training: Ohio State University, Columbus; University of Rochester, Rochester

Mark A. Lawson, M.D.
Assistant Professor of Medicine and Radiology
Radiology Director Cardiovascular MRI
M.D. Degree: University of Tennessee, 1988
Post-Graduate Training: University of Texas Southwestern, Dallas; University of Alabama, Birmingham

Lisa A. Mendes, M.D.
Assistant Professor of Medicine
M.D. Degree: University of Connecticut Medical School, 1987
Post-Graduate Training: Boston University Medical Center, Boston

James A. S. Muldowney, III, M.D.
Assistant Professor of Medicine
M.D. Degree: Vanderbilt University, 1999
Post-Graduate Training: Hospital of the University of Pennsylvania, Philadelphia; Vanderbilt University Medical Center, Nashville

Harry L. Page, Jr., M.D.
Clinical Professor of Medicine
M.D. Degree: Vanderbilt University, 1959
Post-Graduate Training: Vanderbilt University Medical Center, Nashville; University of Colorado Medical Center, Denver

Adam J. Prudoff, M.D.
Assistant Professor of Medicine
M.D. Degree: Hahnemann University, 1998
Post-Graduate Training: Vanderbilt University Medical Center, Nashville; University of Rochester Medical Center, Rochester

Mo Sathamoorothy
Assistant Professor of Medicine
M.D. Degree: The State University of New York at Stony Brook, 2001
Post-Graduate Training: National Institutes of Health; Vanderbilt University Medical Center, Nashville

Debbie Drake, ARNP-BC
Cindy Giuliani, ACNP-BC
Deborah Haggard, APRN-BC
Jason Jean, APRN-BC
Debbie Martin, ACNP-BC
Marcy Mickiewicz, APRN-BC
Margaret Morrison, ACNP-BC
Holly Pierce, APRN-BC
Carol Scott, CFNP

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(866) 886-2478 or (615) 343-9188
Fax: (615) 343-5234
**Physician Directory**

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**Interventional Cardiology**

- **David X. Zhao, M.D.**
  - Assistant Professor of Medicine
  - Director, Cardiac Catheterization Laboratories and Interventional Cardiology
  - M.D. Degree: Shanghai Medical University, 1985
  - Post-Graduate Training: Vanderbilt University Medical Center, Nashville; Brigham and Women’s Hospital, Boston; Harvard Medical School, Boston

- **John H. Cleator, M.D., Ph.D**
  - Assistant Professor of Medicine
  - M.D. Degree: Medical University of South Carolina, 1999
  - Post-Graduate Training: Cleveland Clinic Foundation, Cleveland; Vanderbilt University Medical Center, Nashville

- **Marshall H. Crenshaw, M.D.**
  - Assistant Professor of Medicine
  - M.D. Degree: Tulane University, 1982
  - Post-Graduate Training: Emory University, Atlanta

- **Peter P. Fong, M.D.**
  - Assistant Professor of Medicine
  - M.D. Degree: Vanderbilt University, 1998
  - Post-Graduate Training: University of Washington Medical Center, Seattle; Vanderbilt University Medical Center, Nashville

- **Joseph L. Fredi, M.D.**
  - Assistant Professor of Medicine
  - M.D. Degree: University of Tennessee, Memphis, 1983
  - Post-Graduate Training: University of Rochester – Strong Memorial Hospital, Rochester; Vanderbilt University Medical Center, Nashville

- **Mark D. Glazer, M.D.**
  - Assistant Professor of Medicine
  - M.D. Degree: University of Louisville, 1979
  - Post-Graduate Training: Emory University, Atlanta

- **Henry S. Jennings III, M.D.**
  - Assistant Professor of Medicine
  - M.D. Degree: Vanderbilt University, 1977
  - Post-Graduate Training: Vanderbilt University Medical Center, Nashville

- **John A. McPherson, M.D.**
  - Assistant Professor of Medicine
  - M.D. Degree: University of California–Los Angeles, 1993
  - Post-Graduate Training: University of Virginia Health Systems, Charlottesville; Johns Hopkins Hospital, Baltimore

- **Robert N. Piana, M.D.**
  - Associate Professor of Medicine
  - Director, Vanderbilt Cardiovascular Network
  - M.D. Degree: University of Pennsylvania, 1987
  - Post-Graduate Training: Massachusetts General Hospital, Boston; Beth Israel Hospital, Boston; Harvard Medical School, Boston

- **Thomas R. Richardson, M.D.**
  - Assistant Professor of Medicine
  - M.D. Degree: University of Virginia, 1995
  - Post-Graduate Training: University of Alabama, Birmingham; University of Texas Health Science, San Antonio; Vanderbilt University Medical Center, Nashville

- **Mark A. Robbins, M.D.**
  - Assistant Professor of Medicine
  - M.D. Degree: University of Mississippi School of Medicine, 1993
  - Post-Graduate Training: Cleveland Clinic Foundation, Cleveland; University of Mississippi Medical Center, Jackson; Vanderbilt University Medical Center, Nashville

- **Joseph G. Salloum, M.D.**
  - Assistant Professor of Medicine
  - M.D. Degree: American University of Beirut, Lebanon, 1996
  - Post-Graduate Training: Cleveland Clinic Foundation, Cleveland; University of Texas, Houston; Vanderbilt University Medical Center, Nashville

- **David A. Slosky, M.D.**
  - Assistant Professor of Medicine
  - M.D. Degree: University of Colorado School of Medicine, 1976
  - Post-Graduate Training: Duke University Hospital, Chapel Hill
**Cardiac Arrhythmia**

**Dawood Darbar, M.D., Ph.D.**  
Assistant Professor of Medicine and Pharmacology  
Director, Vanderbilt Arrhythmia Service  
**M.D. Degree:** University of Dundee, Dundee, Scotland, 1989  
**Post-Graduate Training:** Vanderbilt University Medical Center, Nashville; Mayo Clinic, Rochester

**Walter K. Clair, M.D.**  
Assistant Professor of Medicine  
**MD Degree:** Harvard Medical School, 1981  
**Post-Graduate Training:** Duke University Medical Center, Durham; Harvard School of Public Health, Boston; Brigham & Women’s Hospital, Boston

**John T. Lee, M.D.**  
Associate Professor of Medicine  
**M.D. Degree:** University of California at San Francisco, 1978  
**Post-Graduate Training:** University of Rochester Medical Center, Rochester; Stanford University Medical Center, Stanford

**Katherine T. Murray, M.D.**  
Associate Professor of Medicine  
**M.D. Degree:** Duke University, 1980  
**Post-Graduate Training:** Vanderbilt University Medical Center, Nashville; Duke University Medical Center, Durham

**Dan M. Roden, M.D.**  
Professor of Medicine and Pharmacology  
Director, Oates Institute for Experimental Therapeutics  
**M.D. Degree:** McGill University, Montreal, 1974  
**Post-Graduate Training:** Royal Victoria Hospital, McGill University, Montreal; Vanderbilt University Medical Center, Nashville

**Jeffrey N. Rottman, M.D.**  
Professor of Medicine  
Chief, Cardiology, Veteran’s Administration Medical Center  
**M.D. Degree:** Columbia University, 1982  
**Post-Graduate Training:** Massachusetts General Hospital, Boston; Children’s Hospital, Boston; Washington University, St. Louis

**Pablo J. Saavedra, M.D.**  
Assistant Professor of Medicine  
**M.D. Degree:** Case Western Reserve University School of Medicine, 1996  
**Post-Graduate Training:** Vanderbilt University Medical Center, Nashville; Brown University Memorial Hospital, Pawtucket; Case Western Reserve University (MetroHealth), Cleveland

**Mark S. Wathen, M.D.**  
Associate Professor of Medicine  
**M.D. Degree:** University of Louisville, 1984  
**Post-Graduate Training:** Emory University Affiliated Hospitals, Atlanta; Baylor College of Medicine, Houston; University of Western Ontario, London

**Jennifer Combs, APRN-BC**

---

**Lipid and Prevention Program**

**Jeffrey B. Boord, M.D.**  
Assistant Professor of Medicine  
**M.D. Degree:** Wake Forest University, 1996  
**Post-Graduate Training:** Vanderbilt University Medical Center, Nashville

**Sergio Fazio, M.D., Ph.D.**  
Professor of Medicine and Pathology  
Director, Vanderbilt Lipid Laboratory  
**M.D. Degree:** University of Rome, Italy  
**Post-Graduate Training:** University of Rome, Italy; University of California, San Francisco

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To make a patient referral, coordinate a hospital transfer, or speak with a Vanderbilt Cardiovascular Physician:  
(866) 886-2478 or (615) 343-9188  
Fax: (615) 343-5234
Emily G. Kurtz, M.D.
Assistant Professor of Medicine
Director, Prevention Program
M.D. Degree: University of Tennessee, Knoxville, 2000
Post-Graduate Training: Vanderbilt University Medical Center, Nashville; Brigham and Women’s Hospital, Boston; Massachusetts General Hospital, Boston

MacRae F. Linton, M.D.
Professor of Medicine and Pharmacology
Director, Vanderbilt Lipid Clinic
M.D. Degree: University of Tennessee
Post-Graduate Training: Vanderbilt University Medical Center, Nashville; University of California, San Francisco

David J. Maron, M.D.
Associate Professor of Medicine
M.D. Degree: University of Southern California, 1981
Post-Graduate Training: University of California, Los Angeles; Stanford University, Stanford

Melanie Allison, APRN-BC
Beth Meador, APRN-BC
Cindy Osborne, RD, LDN, CDE

Adult Congenital Heart program

Benjamin F. Byrd III, M.D.
Professor of Medicine
Director, Adult Congenital Heart Program
M.D. Degree: Vanderbilt University, 1977
Post-Graduate Training: Vanderbilt University Medical Center, Nashville; Harvard University, Boston

Larry W. Markham, M.D.
Assistant Professor of Pediatric Cardiology
Co-Director, Adult Congenital Heart Program
M.D. Degree: Quillen College of Medicine, East Tennessee State University, 1996
Post-Graduate Training: Cincinnati Children’s Hospital, Cincinnati; University of Cincinnati, Cincinnati; University of Arkansas, Fayetteville

Congestive Heart Failure Program/Transplantation

Thomas G. Di Salvo, M.D., M.Sc., M.B.A.
Associate Professor of Medicine
Medical Director, VHVI
M.D. Degree: University of Cincinnati College of Medicine, 1987
Post-Graduate Training: Johns Hopkins Hospital, Baltimore; Massachusetts General Hospital, Boston; Harvard Medical School, Boston

Rebecca R. Hung, M.D., Ph.D
Assistant Professor of Medicine
MD Degree: Harvard Medical School
Post-Graduate Training: Brigham and Women’s Hospital, Harvard Medical School, Boston; Massachusetts General Hospital, Boston

Allen J. Naftilan, M.D., Ph.D.
Assistant Professor of Medicine
Clinical Director, Heart Failure Program
M.D. Degree: University of Alabama School of Medicine, 1982
Post-Graduate Training: Brigham and Women’s Hospital, Harvard Medical School, Boston

Henry L. Ooi, M.D.
Assistant Professor of Medicine
M.D. Degree: Trinity College Medical School, Dublin, Ireland, 1989
Post-Graduate Training: Boston University Medical Center, Boston; Mater Misericordiae, Ireland; St. Vincent’s Hospital, Ireland; Our Lady’s Hospital for Sick Children, Ireland

Douglas B. Sawyer, M.D., Ph.D.
Jack and Betty Bailey Professor of Cardiovascular Medicine
Associate Professor of Medicine
Director, Cardiovascular Medicine Fellowship Program
MD Degree: Cornell University Medical College, 1991
Post-Graduate Training: Brigham and Women’s, Harvard Medical School, Boston; Hospital, Boston
**Cardiac Surgery**

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Medical School</th>
<th>Post-Graduate Training</th>
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<tbody>
<tr>
<td><strong>Mark A. Wigger, M.D.</strong></td>
<td>Assistant Professor of Medicine</td>
<td>Medical Director, Heart Transplant (Adults)</td>
<td>M.D. Degree: Eastern Tennessee State University School of Medicine, 1987&lt;br&gt;Post-Graduate Training: Oregon Health Sciences University, Portland; Vanderbilt University Medical Center, Nashville; Eastern Tennessee State University School of Medicine, Johnson City</td>
</tr>
<tr>
<td><strong>Melissa Smith, APRN-BC</strong></td>
<td></td>
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<tr>
<td><strong>Stephen K. Ball, M.D.</strong></td>
<td>Assistant Professor of Cardiac Surgery</td>
<td></td>
<td>M.D. Degree: Mississippi School of Medicine, 1987&lt;br&gt;Post-Graduate Training: University of Mississippi Medical Center, Jackson; Rush University Medical Center, Chicago</td>
</tr>
<tr>
<td><strong>David P. Bichell, M.D.</strong></td>
<td>Chief, Division of Pediatric Cardiac Surgery</td>
<td>Professor of Pediatric Cardiac Surgery</td>
<td>M.D. Degree: Columbia University College of Physicians and Surgeons&lt;br&gt;Post-Graduate Training: Brigham &amp; Women’s Hospital, Harvard Medical School, Boston; Children’s Hospital Boston, Harvard Medical School; Barnes-Jewish Hospital, Washington University, St. Louis; Columbia-Presbyterian Hospital, Columbia University, New York</td>
</tr>
<tr>
<td><strong>Karla G. Christian, M.D.</strong></td>
<td>Associate Professor of Pediatric Cardiac Surgery</td>
<td>Associate Chief, Pediatric Cardiac Surgery</td>
<td>M.D. Degree: University of Washington Medical Center, 1986&lt;br&gt;Postgraduate Training: University of Washington Medical Center, Seattle; Vanderbilt University Medical Center, Nashville,</td>
</tr>
<tr>
<td><strong>James P. Greelish, M.D.</strong></td>
<td>Assistant Professor of Cardiac Surgery</td>
<td></td>
<td>M.D. Degree: Wake Forest University School of Medicine, 1992&lt;br&gt;Post-Graduate Training: Hospital of the University of Pennsylvania, Philadelphia; Institute for Human Gene Therapy, University of Pennsylvania, Philadelphia; Brigham and Women’s Hospital, Harvard Medical School, Boston</td>
</tr>
<tr>
<td><strong>Jorge M. Balaguer, M.D.</strong></td>
<td>Assistant Professor of Cardiac Surgery</td>
<td>Chief of Cardiac Surgery, Department of Veterans Affairs Medical Center</td>
<td>M.D. Degree: Universidad De Buenos Aires, 1985&lt;br&gt;Post-Graduate Training: Finochietto Hospital, Buenos Aires, Argentina; St. Vincent Hospital &amp; University of Massachusetts Medical School, Worcester; Brigham &amp; Women’s Hospital, Boston; Harvard Medical School, Cambridge</td>
</tr>
<tr>
<td><strong>Rashid M. Ahmad, M.D.</strong></td>
<td>Assistant Professor of Cardiac Surgery</td>
<td></td>
<td>M.D. Degree: College of Physicians and Surgeons, Columbia University, 1992&lt;br&gt;Post-Graduate Training: The Cleveland Clinic, Cleveland; Harvard Medical School, Boston; The New York Hospital-Cornell Medical Center, New York</td>
</tr>
<tr>
<td><strong>Steven J. Hoff, M.D.</strong></td>
<td>Assistant Professor of Cardiac Surgery</td>
<td></td>
<td>M.D. Degree: The Johns Hopkins University School of Medicine, 1986&lt;br&gt;Postgraduate Training: Vanderbilt University Medical Center, Nashville</td>
</tr>
</tbody>
</table>

To make a patient referral, coordinate a hospital transfer, or speak with a Vanderbilt Cardiovascular Physician:

(866) 886-2478 or (615) 343-9188

Fax: (615) 343-5234
Betty S. Kim, M.D.
Assistant Professor of Cardiac Surgery
Chief, Cardiac and Thoracic Surgery Maury Regional Hospital
M.D. Degree: Yale University School of Medicine, 1991
Postgraduate Training: Brooke Army Medical Center, San Antonio; Walter Reed Army Medical Center, Washington, D.C.; Brigham and Women’s Hospital, Harvard Medical School, Boston

Michael R. Petracek, M.D.
Professor of Clinical Cardiac Surgery
M.D. Degree: The Johns Hopkins School of Medicine, 1971
Post-Graduate Training: Vanderbilt University Hospital, Nashville; Johns Hopkins Hospital, Baltimore

Craig Climberg, PA-C
Edmund J. Donahue, PA-C
Patricia Hooker, PA-C
Thomas M. Stahl, PA-C

Nora Cobb, APRN-BC
Breanne F. Fryz, APRN-BC
Anna Fong, APRN-BC
April Kapu, APRN-BC
Stacy Kelley, APRN-BC
Laurel Perrigo, APRN-BC
Veronica Rowan, APRN-BC
Sean Smithey, APRN-BC
Joshua Squiers, APRN-BC
Kristie Walker, APRN-BC
Daniel P. Werle, APRN-BC
Brian Widmar, APRN-BC

Vascular Surgery

Thomas C. Naslund, M.D.
Associate Professor of Surgery
Chief, Division of Vascular Surgery
Director, Vascular Surgery Residency
Medical Director, Vascular Lab
M.D. Degree: Vanderbilt University, 1984
Post Graduate Training: Vanderbilt Medical Center, Nashville; Ochsner Clinic, New Orleans

Jeffrey B. Dattilo, M.D.
Assistant Professor of Surgery
Associate Program Director Surgery Education
Chief, Vascular Surgery, Department of Veterans Affairs Medical Center
M.D. Degree: East Carolina University, 1993
Post Graduate Training: Medical College of Virginia, Richmond; Withington Hospital, Manchester, England; Massachusetts General Hospital, Boston; Harvard Medical School, Boston

Raul J. Guzman, M.D.
Assistant Professor of Surgery and Cell Biology
M.D. Degree: Johns Hopkins School of Medicine, 1986
Post Graduate Training: Lenox Hill Hospital, New York; National Heart, Lung, and Blood Institute, Bethesda; Stanford University Hospital, Stanford

Charles B. Ross, M.D.
Assistant Professor of Surgery
Director, Endovascular Surgery
M.D. Degree: University of Kentucky, 1984
Post Graduate Training: Vanderbilt Medical Center, Nashville; Louisiana State University Medical Center, New Orleans

To Schedule an Outpatient Vascular Surgery Appointment, call
(615) 322-2343
To schedule an appointment in our outreach network clinic locations, call (615) 322-2318

**Nashville**
Vanderbilt Heart
1215 21st Ave. South
Medical Center East
South Tower, 5th Floor
Nashville, TN 37232

**Lawrenceburg**
Vanderbilt Heart
1611 South Locust
South Terrace Medical Building
Lawrenceburg, TN 38464

**Shelbyville**
Vanderbilt Heart
841 Union St., Suite 201
Shelbyville, TN 37160

**Sparta**
Physician’s Associates
1645 South Main Street,
Suite 101
Crossville, TN 38555

**Crossville Medical Group**
100 Lantana Road,
Suite 202
Crossville, TN 38557

**Franklin, KY**
The Patterson Medical and Diagnostic Center
1020 South Main Street
Franklin, KY 42134

**Powderly, KY**
Powderly Clinic
1010 Medical Center Dr.
Powderly, KY 42367

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To make a patient referral, coordinate a hospital transfer, or speak with a Vanderbilt Cardiovascular Physician:

(866) 886-2478 or (615) 343-9188

Fax: (615) 343-5234
Vanderbilt Heart and Vascular Institute is located in Medical Center East, South Tower on the 5th floor.

Parking is available in the East Garage located in the same building. Valet parking available.

*Remember to have your parking ticket stamped at the registration desk for complimentary parking.*