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Cardiovascular medicine and surgery are rapidly evolving fields that have led the way toward evidence-based care of patients with life-altering diseases. As physicians associated with The Christ Hospital, we have at our disposal the widest array of the latest technologies as well as a firm organizational commitment to explore newer, better approaches to patient care. The Heart and Vascular Center at The Christ Hospital was established to streamline the delivery of cardiovascular care so that the truest measure of success—outcomes—are optimized. This is an effort that requires physicians dedicated to identifying and addressing potential pitfalls in clinical care, nursing staff focused on patient safety and well-being, and an administration that listens and leads at the same time. It is an effort that requires patience and attention to detail, innovative research and ability to “think outside the box,” and a tireless commitment to treat each patient as we would wish “our mothers to be treated.”

This document summarizes our efforts over the past year.

Thank you,

Eugene S. Chung, M.D.
Director, Outcomes, The Christ Hospital Heart and Vascular Center
Director, Heart Failure Program, The Ohio Heart and Vascular Center
Associate Director, Heart Failure Division, The Carl & Edyth Lindner Center for Research and Education

The Christ Hospital is a 555-bed, not-for-profit, acute care facility, offering services in cardiovascular care, spine treatment, women’s health, major surgery, cancer, behavioral medicine, orthopedics, emergency care, kidney transplant and others. The hospital also offers The Christ Hospital Medical Associates, a primary care physician practice with several office locations throughout Greater Cincinnati. We are consistently recognized by U.S. News & World Report as one of the nation’s top hospitals, and have been named Cincinnati’s Most Preferred Hospital for 14 consecutive years by National Research Corporation (NRC).

As one of America’s top 50 hospitals for heart care, we provide care to thousands of cardiovascular patients every year. In the 2009 issue of U.S. News & World Report featuring “America’s Best Hospitals,” The Christ Hospital ranks 33rd in the country for heart care and heart surgery compared to medical centers across the U.S. Our exceptional ranking represents the decades of experience we have in performing complex heart and vascular procedures, the unparalleled skill of our physicians and the expertise of our staff.
**Chest Pain Center**

The Christ Hospital received full accreditation as a primary percutaneous coronary intervention (PCI) facility from the Society of Chest Pain Centers in October 2008 and is the only Center in the Greater Cincinnati area with this distinction of experience and excellence. Accredited centers must demonstrate the use of protocol-driven, evidence-based, standardized practice for all patients experiencing signs and symptoms of a heart attack. The accreditation includes not only the ST segment elevation myocardial infarction (STEMI) and non-STEMI patients, but also other cardiac patients.

Our Chest Pain Center is focused on reducing the time it takes for a patient with symptoms of a heart attack to see a physician, especially during the critical early stages when treatment is most effective.

Our core measure of door-to-balloon (DTB) time is consistently one of the lowest in the state of Ohio (Anthem Quality Award 2007). In the first and second quarter of 2008, The Christ Hospital DTB time was in the top 10 percent of all MIDAS participant hospitals nationally. Most recently, in 2009, The Christ Hospital received a Bronze Award for “Minimizing Time to PCI in a Community Hospital” by the American Society for Quality Cincinnati Chapter Healthcare Quality Awards Committee.

### The Christ Hospital Door-to-Balloon Time

Based on American College of Cardiology DTB Goals of 90 minutes or less.

#### STEMI - ST - Segment Elevated Myocardial Infarction Average Door to Balloon Time (DTB)

- The Christ Hospital Avg DTB
- 3 Year Avg DTB
- ACC Goal

Data Source: CMS AMI Core Measure
Catheterization Laboratory (Cath Lab)

The Christ Hospital cardiac catheterization lab performs more percutaneous coronary intervention (PCI) procedures than any other hospital in the Greater Cincinnati area. Additionally, our mortality rates far surpass the American College of Cardiology PCI registry benchmarks and trend lower than many other nationally ranked cardiovascular centers.

Five dedicated cardiac labs and one dedicated special procedures lab comprise the catheterization lab and are available to cardiologists and interventional radiologists at The Christ Hospital. Procedures performed in these labs include diagnostic and interventional catheterization for cardiac and peripheral vascular disease. When testing reveals blockages, we intervene using specialized balloons, stents, thrombectomy and atherectomy catheters.

Our affiliation with the Lindner Center for Research and Education (The Lindner Research Center) allows us to actively participate in the changing arena of interventional procedures and treatments, specifically with leading-edge trials in stem cell therapy and aortic valvuloplasty. We participate in several current interventional trials involving drug-eluting stents (DES) of various diameters and lengths, to address the interventional needs of the coronary artery disease patient.

Drug-eluting stent trials:
- Platinum - The Platinum trial offers a stent with flexibility that can be delivered despite curves in the artery and is less bulky by design.
- Elite - This stainless steel stent is electropolished, a process that is intended to make the stent more deliverable. Again, the stent is able to be maneuvered through curves in the vessel.
- Spirit Small Vessel - This trial stent is 2.25 mm in diameter, and is the only stent available in this size. Small vessels, which can re-narrow more easily because of their size, are now treatable.

The Lindner Research Center is also conducting stem cell trials involving acute myocardial infarction as well as diabetes. Through these cell therapy trials, our physicians have delivered stem cells percutaneously into specific zones of reversible damaged heart muscle to patients who are not suitable surgery candidates and who are refractory to medical intervention.
In 2009, The Christ Hospital implemented a Pulmonary Hypertension (PH) Program, the only program in the region to utilize an integrated, multidisciplinary team of cardiologists, pulmonologists and specially trained nurses to effectively diagnose and treat PH. PH is often not diagnosed in a timely manner because of its broad range of symptoms: breathlessness (especially with activity), fatigue, lightheadedness (especially when climbing stairs or upon standing up), swollen ankles, legs or abdomen, chest pain, (especially during physical activity) and fainting.

Although there is no cure, there are treatments available including several drugs that are now approved by the FDA. Interventional procedures may also be an option for some patients. Additionally, patients may benefit from clinical trial studies.

- The United Therapeutics FREEDOM trial offers an oral prostacyclin treatment option.
- The goal of the Gilead CICLETANINE HCL trial is to decrease the pressures that progressively worsen PH by increasing the naturally circulating nitrous oxide in the body, which contributes to vessel relaxation.
- The Gilead ARTEMIS Trial offers an FDA-approved endothelin receptor antagonist (ERA), Ambrisentan, for the treatment of primary pulmonary hypertension in patients with pulmonary hypertension secondary to idiopathic pulmonary fibrosis disease.
- The aim of the Actelion SERAPHIN trial is to offer the primary pulmonary hypertension patient an alternative ERA, Macitentan.

* Any of the trials mentioned above may close at any time.
access many regions of the body via major blood vessels. Typically the blood vessel entered is the femoral artery. Percutaneous treatments are performed by interventional cardiologists and interventional radiologists at The Christ Hospital. Good candidates for endovascular procedures may be older and have multiple health concerns. Examples of additional percutaneous procedures include:

**Plaque Excision/Directional Atherectomy**

Atherosclerotic blockages are removed using a plaque excision system with a tiny rotating blade that shaves away plaque from inside the artery, which is then collected in the tip of the device and is removed from the patient.

**Endovascular Aneurysm Repair (EVAR)**

This minimally invasive procedure requires a small incision in the groin for graft insertion and aneurysm exclusion. Patients spend 24 to 48 hours in the hospital, compared to the 7-14 day stay required in the past.

**Laser Techniques**

Laser therapy is another minimally invasive procedure, which is used to treat peripheral arterial disease. The small, fiberoptic catheter transmits bursts of “cool” ultraviolet energy through the flexible fibers of the catheter. The ultraviolet energy penetrates the lesion vaporizing the blockage.

We continually conduct new trials as part of our commitment to providing a superior level of vascular care.

**Carotid Vascular Disease Trials**

CREST Trial - Compares outcomes in treating carotid artery stenosis with endarterectomy versus carotid stenting with distal protection filtering performed percutaneously.

GORE Embolden Trial - Examines the use of the Embolden filter device to collect debris that may dislodge and cause a potential aneurysm.

**Peripheral Vascular Disease Trials**

DEFINITIVE LE - Treats lower extremity lesions with the SilverHawk, an atherectomy device, which slices out plaque in the vessel.

DEFINITIVE-CA - Uses the SilverHawk device for calcified lesions in the upper leg vessels.

ENDURANT Trial - Uses the Endurant stent graft, a polyester woven tube that has a thin metal frame of strong flexible syringes. The stent covers an aneurysm in a vessel or weakened arterial wall to avoid rupture and improve blood flow.

OASIS - Investigates the use of the orbital atherectomy system, which grinds out occlusions in the peripheral arteries.

ORION Trial - Evaluates the effectiveness of the Epic Nitinol stent to treat iliac lesions.

SUPERB Trial - Analyzes the Supera Peripheral System, compared to balloon angioplasty, in removal of femoral artery blockages.

In conjunction with The Ohio State University, The Christ Hospital offers formal fellowship training in peripheral vascular disease intervention. Preceptorship training courses are also available.
Cardiovascular Surgery

Donald Mitts, M.D.
Medical Director of Cardiac Surgery

Gregory Zenni, M.D.
Section Chief of Vascular Surgery

The Christ Hospital Heart and Vascular Center is the only center in the Greater Cincinnati area utilizing thoracic stent grafts. Additionally, our physicians are experts in abdominal vascular stenting, treating more patients than any other hospital in the region. Cardiovascular surgical services also performed include:

- On- and off-pump coronary artery bypass graft (CABG) surgery
- Robotic and minimally invasive transmyocardial revascularization (TMR)
- Internal mammary artery (IMA) grafts
- Minimally invasive valve replacement
- Radiofrequency ablation (RFA) and cryo-ablation MAZE procedures.

CABG Annual Procedure Volumes

Data Source: The Christ Hospital volumes from the Society of Thoracic Surgeons (STS) National Database.

CABG Risk Adjusted Operative* Mortality Rates
The Christ Hospital vs. STS Benchmarks

*Operative Mortality is defined as death during the same hospitalization as surgery or after discharge but within 30 days of the procedure

Data Source: The Christ Hospital compared to all other hospitals participating in the Society of Thoracic Surgeons (STS) National Database

Minimally invasive procedures and treatments performed include:

- Valve replacement
- Atrial septal defect
- Robotic TMR
- Atrial myxoma
- Lung resections
- Nissen furdoplication
- Lobectomy
- Heller myotomy
- LV lead placement
- Thymectomy
- Mitral valve repair
- Sympathectomy

Data Source: The Christ Hospital compared to all other hospitals participating in the Society of Thoracic Surgeons (STS) National Database.
The operating room performs three types of ablation to treat arrhythmias, including surgical, radiofrequency and cryo ablation procedures. During cardiac ablation, a device maps the electrical currents of the heart and determines the faulty electrical site. Once the damaged site is confirmed, energy is used to destroy a small amount of tissue, ending the disturbance of electrical flow through the heart and restoring a healthy heart rhythm. This energy may take the form of radiofrequency energy that cauterizes the tissue, or intense cold that freezes, or cryo- ablates, the tissue. Other energy sources are being investigated.
The Healthcare Accreditation Colloquium, Inc. has recognized the comprehensive heart failure (HF) services and quality care of The Christ Hospital by granting it full accreditation. The Christ Hospital is the first hospital in Greater Cincinnati, and only the fifth hospital in the U.S., to achieve this recognition.

Providing integrated care in a 28-bed unit dedicated to heart failure management, the expert team of physicians and nurses at The Carl H. & Edyth Lindner Heart Failure Treatment Center are committed to providing the latest treatment innovations, while educating patients on long-term management of HF. Medical management of acutely decompensated HF patients begins with protocol-driven assessment and proceeds with careful and expert monitoring.

One option for such patients is ultrafiltration, a process that uses a device, similar to a dialysis machine, to remove large volumes of excess fluid in HF patients. Simpler to use and gentler on the patient, this is a promising approach to volume removal in many patients with HF.

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Heart Failure
Santosh Menon, M.D.
Medical Director,
The Carl H. & Edyth Lindner Heart Failure Treatment Center

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The Christ Hospital Heart Failure Volume (ICD-9 Principal Discharge Diagnosis)

The Christ Hospital Heart Failure Core Measure Composite Score (All or None Bundle Compliance)

Core measures are defined as:
HF1 - Discharge Instructions
HF1a - Activities
HF1b - Diet
HF1c - Follow-Up
HF1d - Medications
HF1e - Symptoms Worsening
HF1f - Weight Monitoring
HF2 - Evaluation of Left Ventricular Systolic Function
HF3 - Angiotensin Converting Enzyme (ACE) Inhibitors and Angiotensin Receptor Blockers (ARB) prescribed for Left Ventricular Systolic Dysfunction
HF4 - Smoking Cessation Advice/Counseling

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Data Source: CMS HF Core Measure

*Implemented Hospital-wide Electronic Medical Record on 6-1-2008
Heart Link℠, a unique program to help HF patients transition from hospital to home, utilizes a specially trained nurse who connects with patients after discharge to review diet, exercise and medication. This program was recognized at the 2008 Innovative Solution Awards, presented by the Greater Cincinnati Health Council. Patients also benefit from a monthly HF education and support group.

In 2008, The Christ Hospital opened a clinic for heart failure patients, adjacent to the hospital in the Medical Office Building. The clinic treats the increasing aging population living with HF, specifically those who do not have insurance and are at risk because of inability to pay for follow-up appointments or medications.

Additionally, The Christ Hospital is involved in multiple Institutional Review Board-approved, nationally published research of HF management and treatment methods. These studies span inpatient and outpatient settings, to evaluate systolic and diastolic HF, arrhythmias, sleep apnea, pacemakers to prevent HF and devices to monitor pressures in the heart and lungs.

The Christ Hospital electrophysiologists focus on the study, diagnosis and treatment of arrhythmias of the heart. The Christ Hospital electrophysiology (EP) department consists of three labs with dedicated electrophysiologists who specialize in device implantation and ablation, using the latest state-of-the-art technology available. These physicians have performed several first procedures—first in the nation and first in the Cincinnati area.

**Procedures performed in the EP Lab include:**

Electrophysiology studies - A diagnostic test evaluating the electrical activity of the heart. The results are used to guide the physician to the cause and treatment of a heart arrhythmia.

Catheter ablation - A form of treatment for abnormal heart rhythms (such as tachycardia, atrial fibrillation, atrial flutter), using high frequency electrical energy to selectively cauterize areas of the heart.

Pacemakers - A pacemaker is an implanted medical device that stimulates the heart muscle with electrical discharges that help the heart to beat.

Implantable Cardiac Defibrillator (ICD) - An ICD is an implanted electronic device with pacing capabilities that constantly monitors heart rhythm. The device is implanted to protect against sudden cardiac death.

**Rhythm Management**

Edward J. Schloss, M.D.
Medical Director, Electrophysiology

**Cardiac Ablation Case Volume**

Data Source: ICD-9 Procedure Code 37.34 case volume reported from internal Christ Hospital software.
Upright Tilt Table Test - This test helps the physician evaluate certain blood pressure and heart reflexes that keep blood flowing through the body.

Cardioversions - A procedure performed using an external energy shock to restore the heart to a normal rhythm.

There are several ablation procedures performed in the EP Lab at The Christ Hospital. In each case, radio frequent energy is applied to the particular area of the electrical conduction of the heart where the arrhythmia is occurring. The energy cauterizes the tissue, preventing the electrical aberrance from occurring.

These particular types of ablation are performed in the atrial section of the heart:

- Atrioventricular Node Ablation
- Atrioventricular Reentrant Tachycardia
- Atrial Flutter Ablation
- Atrial Fibrillation Ablation
- Ventricular Tachycardia Ablation is performed in the ventricle chamber of the heart.
Most recently The Christ Hospital physicians were among the first in the U.S. to implant a pacemaker specifically designed to be compatible with magnetic resonance imaging (MRI) as part of the EnRhythm clinical trial with Medtronic.

Electrophysiology trials currently in progress range from device trials to drug studies to anatomical research.

- The Aristotle trial for Bristol Meyers Squibb/Pfizer is testing an alternative medication to Coumadin that may prevent blood clots that occur during atrial fibrillation.
- The Block HF trial, sponsored by Medtronic, tests the ability of biventricular pacing to prevent pacing-induced heart failure in patients with left ventricular dysfunction.
- The Venogram trial with Cardiac Concepts studies the phrenic nerve and its role in hyperventilation episodes during central sleep apnea.
- The Watchman trial for Atritech aims to prevent stroke in patients with atrial fibrillation, using a left atrial appendage device.
- The Madit CRT trial with Boston Scientific is aimed at heart attack survivors with impaired heart function. The goal of the trial is to use device therapy to slow the progression of heart failure before the patient develops debilitating symptoms.

The Christ Hospital’s Wound Healing Center is specially equipped to treat a variety of chronic wounds. The multidisciplinary team includes vascular surgeons, podiatrists, internal medicine specialists, plastic surgeons, general surgeons and specialized nurses and technicians. Treatments range from medication and topical treatment to hyperbaric oxygen therapy for conditions from diabetic foot ulcers to radiation therapy wounds. Patients’ success rates are at 88.7 percent healed within 16 weeks, with an amputation rate of three percent.

Our physicians are participating in the Baxter CLI Trial, which offers a new option for wound treatment. Apheresis is used in the trial to collect autologous CD-34 positive cells that are injected to improve symptomatic wound healing in patients with moderate to high risk for critical limb ischemia.
Cardiac Imaging

Wojciech Mazur, M.D.
Medical Director, Cardiac Imaging

Gregory Clarke, M.D.
Associate Medical Director, Cardiac Imaging

The multidisciplinary imaging team at The Christ Hospital Heart and Vascular Center includes radiologists, interventional radiologists, cardiologists, vascular surgeons and an expert technical staff. The Christ Hospital’s echocardiogram lab is accredited by The Intersocietal Commission for the Accreditation of Echocardiography Laboratories. All cardiologists who read echocardiograms are Level II or III credentialed and work with an all-digital system. Additionally, the peripheral vascular lab at The Christ Hospital is accredited by The Intersocietal Commission for the Accreditation of Vascular Laboratories. The tests are read by board-certified vascular surgeons utilizing digital technology.

In April, The Christ Hospital acquired the 256-slice Philips ICT scanner. With aggressive radiation sparing protocols, patients can receive 80 percent less radiation than with traditional methods. Using new isotope protocols, our nuclear stress testing reduces the radiation dose to less than 50 percent when compared to traditional protocols, making it one of the safer nuclear stress testing methods in the region.

The Christ Hospital offers formal fellowship training in cardiovascular imaging with the University of Cincinnati. Preceptorship training courses are also available in advanced CT angiography imaging. The team focuses on education with biweekly cardiac sonographer lectures and monthly CT and MRI cardiology fellow lectures. Imaging specialists host a hands-on lecture series which provides ACC/AHA Level 2 and 3 credentialing and is attended by physicians throughout the region and country. A comprehensive training program for cardiac anesthesiologists has been developed for intra-operative transesophageal echocardiograms to enhance expertise and quality.
The Christ Hospital Cardiac Rehabilitation Program has earned program certification by the American Association of Cardiovascular and Pulmonary Rehabilitation (AACVPR). Certification recognizes outpatient Phase II cardiac rehabilitation programs that have been rigorously reviewed by a national board and meet essential requirements for standards of patient care.

In 2008, the Cardiac Wellness Program was also recognized with the American Heart Association Gold Fit Friendly Award, part of the The Start! Fit-Friendly Program. The award demonstrates that The Christ Hospital is a progressive leader, making health and wellness of its employees a priority.

As the epidemics of diabetes and hypertension grow, The Christ Hospital is leading clinical trials in the treatment of diabetes, hypertension, lipids, and obesity. These studies investigate drugs and agents used to reduce the recurrence or initial complication of a cardiac event due to these conditions.

The Lindner Center for Research and Education
Dean Kereiakes, M.D.
Medical Director

The Carl and Edyth Lindner Center for Research and Education at The Christ Hospital has participated in more than 1,000 clinical research trials (130 active trials) and has introduced most of the new techniques in cardiovascular medicine over the past 20 years. These studies have included first-in-man as well as first-in-the-U.S. experiences with leading-edge techniques. The Lindner Research Center was one of the first 20 centers in the United States to enroll in two new trials of adult stem cell therapy including patients with either type I diabetes or acute myocardial infarction. These trials are sponsored by Osiris Therapeutics and evaluate the safety and efficacy of Prochymal®, a medication composed of mesenchymal stem cells to repair either the pancreas or heart.

Exploring next-generation treatments for resistant high blood pressure, physicians with The Lindner Research Center were among the first in the U.S. to successfully use the Rheos® Hypertension (HT) Therapy™, developed by CVRx, Inc. The Rheos HT System uses a pacemaker-like device to produce electrical signals to stimulate the body’s baroreceptors and reduce blood pressure as needed.
The Christ Hospital is a community-based hospital with the clinical expertise, research and outcomes of the very best academic medical centers in the world. In 2009, The Christ Hospital’s cardiovascular physicians and staff were recognized with some of the top awards in the field:

2009 Healthcare Colloquium Accreditation for Heart Failure Center. The Christ Hospital is the first hospital in Greater Cincinnati, and only the fifth hospital in the U.S., to achieve this recognition.

2009 American Society for Quality Cincinnati and the Healthcare Quality Awards Committee, Bronze Award. The Christ Hospital was recognized for Minimizing Time to PCI in a Community Hospital

2009 U.S. News & World Report “America’s Best Hospitals.” Christ Hospital’s Heart & Heart Surgery program is ranked 33rd in the nation.

2008 Full Accreditation with PCI Capabilities by the Society for Chest Pain Centers for The Christ Hospital Chest Pain Center

2009 Most Preferred Hospital for Cardiac Healthcare Services. Presented by National Research Corporation, the NRC Consumer Choice Awards recognize the nation’s top hospitals based on the annual Healthcare Market Guide Ticker® study, which surveys more than 200,000 households, representing more than 400,000 consumers in the continental U.S.

2008 Leapfrog Top Hospitals. Based on results from the Leapfrog Hospital Survey, a rating system that provides an up-to-the-minute assessment of a hospital’s quality and safety, The Christ Hospital is the only adult-care hospital in Greater Cincinnati, and one of just 33 hospitals nationwide, whose metrics met criteria to be included as a top hospital. Metrics are:

- Zero percent mortality rate in Aortic Valve Replacement (reporting year: 2007)
- Quality of staff working in ICUs
- Efforts to ensure proper nurse-to-patient ratios are achieved
- Implementing protocols to prevent mislabeling of specimens and diagnostic studies
- Meeting standards for providing proper interventions for all patients on ventilators
- Meeting standards for preventing catheter-related infections.
Cardiologists
Charles Abbottsmith, M.D.
Thomas Broderick, M.D.
Jefferson Burroughs, M.D.
Joseph Choo, M.D.
Eugene Chung, M.D.
Gregory Clarke, M.D.
Kevin Cochran, M.D.
John Corl, M.D.
Peter Engel, M.D.
Madhukar Gupta, M.D.
Joe Hackworth, M.D.
Charles Hattemer, M.D.
Kevin Cochrane, M.D.
John Paul Runyon, M.D.
Ian Sarembock, M.D.
Edward Schloss, M.D.
John Schneider, M.D.
Terri Stewart-Dehner, M.D.
Lynne Wagoner, M.D.
Theodore Waller, M.D.

Cardiothoracic Surgeons
Geoffrey Answini, M.D.
Tom Ivey, M.D.
Donald Mitts, M.D.
Steven Park, M.D.
Manisha Patel, M.D.
S. R. Vester, M.D.

Vascular Surgeons
Mark Harding, M.D.
Sasidhar Kilaru, M.D.
Charles Mesh, M.D.
Gregory Zenni, M.D.

Interventional Radiologists
Richard Budde, M.D.
Robert Bulas, M.D.
Daniel Long, M.D.
Jeff Standley, M.D.
Glen Taylor, M.D.

Call 513-585-1000 to be connected with one of our cardiovascular specialists.

The Christ Hospital offers multiple educational events throughout the year and partners with other organizations such as the American Heart Association, Cincinnati Sports Club and the Foundation for Female Health Awareness, to increase community education. Additionally, the hospital has piloted several community programs to improve awareness of cardiovascular disease.

Critical Connections
In 2008, The Christ Hospital was the first in the Tristate to launch an eICU program called Critical Connections, which expands access to critical care specialists within the region. Using VISICU’s eICU model, this program is clinically proven to reduce severity-adjusted mortality rates by 29 percent, resulting in more lives saved. Board-certified intensivists and experienced critical care nurses remotely monitor high acuity patients in Christ Hospital ICU beds (44). The hospital is currently working to expand this remote monitoring service to outlying hospitals, to provide critical care patients in surrounding regions with an advanced level of intensive care.

1 Based on VISICU's analysis of severity-adjusted data from 185,464 patients treated in ICUs supported by the eICU Program during the period from January 1, 2006, to December 31, 2007.
Project Heart Restart
The Christ Hospital’s Project Heart ReStart is a public access to defibrillation (PAD) program that supports placing automated external defibrillators throughout the community. Thanks to several generous grants, Project Heart ReStart has placed more than 100 new automated external defibrillators (AEDs) throughout Greater Cincinnati.

TheChristHospital.com
Our Web site is a resource for patients for prevention, disease and treatment information. At TheChristHospital.com, The Christ Hospital Heart and Vascular Center offers details on upcoming educational seminars, screenings, as well as free risk assessments like the Heart Aware Program.

Heart Aware Program
The HeartAware Program at The Christ Hospital evaluates heart disease risk scores through an online assessment. If participants are determined to be at high risk, a free follow-up appointment with a cardiac clinician is recommended to address their heart health concerns.

Education
Physicians at The Christ Hospital have been performing the latest heart and vascular procedures since 1969. Their vast experience makes them prominent educators in the heart and vascular arena.

The Christ Hospital offers formal fellowship training in peripheral vascular disease intervention in conjunction with The Ohio State University. We also offer fellowship training in cardiovascular imaging with the University of Cincinnati. Preceptorship training courses are also available in peripheral vascular intervention as well as advanced CT angiography imaging.