

THE GEISINGER HEART INSTITUTE



GEISINGER

INTRODUCTION



At the Geisinger Heart Institute, we are dedicated to partnering with you in your patients' care. Working collaboratively, our multi-disciplinary team of specialists diagnoses and treats even the most complex cardiac cases.

The Heart Institute team's expertise and outcomes are the result of our experience and our participation in national studies, as well as the innovation and quality standards for which Geisinger is renowned.

As you consider a partner for your patient's care, consider The Heart Institute. Our team:

- Confers with you to select the most appropriate and least invasive therapies for your patient.
- Works collaboratively with you to provide your patient with leading edge diagnostic tests and treatment protocols.
- Implements state-of-the-art technologies to proactively inform you of their progress.
- Provides specialist consults for referring physicians around the clock.

Just as your patients trust you, you can trust Geisinger's unique blend of research, innovation and quality care.

This brochure will provide you with a brief overview of our programs and services. [To learn more, please call 800.332.8901.](tel:800.332.8901)



CORONARY ARTERY BYPASS GRAFT
VALVE SURGERY

LEVEL I HEART ATTACK
ADVANCED CARDIAC IMAGING

CATHDIRECT
PERCUTANEOUS CORONARY INTERVENTIONS

ELECTROPHYSIOLOGY

WOMEN'S HEART PROGRAM
CONGESTIVE HEART FAILURE

ACCREDITATION AND ACCOLADES

REDEFINING QUALITY: CORONARY ARTERY BYPASS GRAFT



Proven Care for Coronary Artery Bypass Graft (CABG) is a new concept and standard of patient care found only at Geisinger's Heart Institute. Based on best practices in CABG care found in the *ACC/AHA 2004 Guideline Update for Coronary Artery Bypass Graft Surgery*, Proven Care applies the Guideline's Class I and Class IIa recommendations – and guarantees that these high standards inform every step of care, every patient, every time.

Our Proven Care program utilizes powerful technology to integrate the guidelines into each aspect of daily workflow, with outcomes that reflect the power of these protocols:

- 93 percent of CABG procedures are performed without the use of a heart-lung machine
- Our mortality rate of .4 percent

is seven times lower than the national average

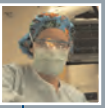
- Post-surgical length of stay is 5.1 days, versus a national average of 6.8 days

The program allows clinicians to customize care to the patient, and ensures the same quality of care regardless of which physician the patient sees.



93 percent of CABG performed off-pump (Geisinger), versus 21 percent (National Average)

HEALING CLOSE TO HOME: VALVE SURGERY



For patients needing heart valve surgery, one of the most high-volume programs in Pennsylvania is close at hand.

The Heart Institute collaborates closely with referring physicians and cardiologists to provide effective small-incision surgical options that minimize risk, discomfort and cost. In fact, the team's track record in minimally-invasive mitral valve replacement has yielded excellent results for patients, with new innovations, including surgical robotics, already in development.

Although more complex, valvuloplasty accounts for more than 80 percent of the valve operations we perform. For the patient, valvuloplasty provides a far better outcome, which is why we strive for repair over replacement.



80 percent of valves are repaired (Geisinger), versus 30 percent (National Average)

BEATING THE CLOCK: LEVEL I HEART ATTACK PROGRAM



According to the American Heart Association's guidelines, patients have the best chance of surviving an ST Elevation Myocardial Infarction (STEMI) when they receive angioplasty within 90 minutes.

The Heart Institute's Level I Heart Attack Program, a partnership with emergency ambulance and helicopter services, community hospitals and angioplasty referral centers, consistently beats the clock with an integrated and organized response that gives patients the best opportunity to survive STEMI.

This coordinated approach allows us to consistently beat the 90 minute "door-to-balloon time" recommendation. Currently, 90 percent of Geisinger's heart patients are treated within 90 minutes, compared to 55 percent nationally. By placing one call, your patient is rushed from an affiliated hospital to Geisinger where they can get to the cardiac catheterization laboratory for life-saving balloon angioplasty within minutes. [Simply call EDdirect at 866.379.8979](tel:866.379.8979) for prompt response.



90 percent of patients are treated within 90 minutes (Geisinger), versus 55 percent (National Average)

CAPTURING CLARITY: ADVANCED CARDIAC IMAGING



In effectively treating cardiac conditions, the latest imaging technologies are essential to making the right diagnosis – and intervention – in time.

Since 1998, Geisinger's cardiologists and radiologists have worked together to develop a state-of-the-art imaging program that applies the most advanced CT and MR technologies. This collaboration has revealed new applications for evaluating patients for possible coronary disease, employing CT as an effective alternative to more invasive diagnostic procedures like catheterization, which yield normal results 20-30 percent of the time.

Our sophisticated MR expertise ensures detailed imaging of the heart that will determine the extent of heart disease. This will help avoid unnecessary invasive tests. If surgery is indicated, cardiac surgeons can incorporate MR imaging in the OR for optimal outcomes.

We've actively invested in advanced imaging to ensure your patients benefit from the leading edge use of these technologies, in both diagnosis and treatment.



**64 slice CT
3T MR**

STREAMLINING RESPONSE: CATHDIRECT



CathDirect, an elective outpatient catheterization referral hot line, allows you to schedule elective catheterizations without a consult.

CathDirect offers a faster and more convenient way to determine:

- Location and severity of coronary artery blockages
- Function of individual cardiac chambers and cardiac valves
- Congenital heart defects
- Peripheral vascular disease causing claudication

To ensure your patient receives expedited outpatient services, place one call to CathDirect – 570.271.8100.



Expedited scheduling of cardiac cath

CREATING CURES: PERCUTANEOUS CORONARY INTERVENTIONS



The Heart Institute's group of cardiac interventionalists are developing and participating in research studies of new drugs and devices that improve heart care, including:

- Heart attack treatment protocols
- Experimental gene therapy
- New stent trials

As a group we've published more than 150 research papers on PCI in the past 15 years, and since 1994 have pioneered quality improvement measurement benchmarking by participating in the American College of Cardiology national results database – the *National Cardiovascular Data Registry*.

In addition, we are able to perform such advanced procedures as:

- PFO closures for stroke patients
- Rotational atherectomy
- Endothelial dysfunction testing for women with chest pain
- Catheterization through the arm

Currently 93 percent of interventions are done at the same time as the diagnostic procedure. And, we have a 96 percent rate of opening clogged arteries.



96 percent success rate opening clogged arteries



Geisinger's board-certified electrophysiologists are on the leading edge of diagnosing and treating heart rhythm disorders with advanced procedures, including:

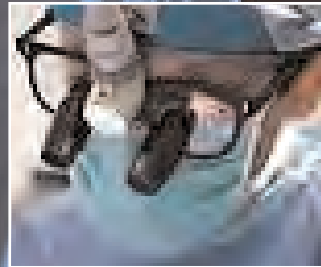
- Radiofrequency ablation for atrial fibrillation, as well as for supraventricular tachycardia and ventricular tachycardia
- Cryoablation to lower the risk of damaging normal heart tissue
- Three dimensional noncontact mapping of the endocardial surface to help identify arrhythmia pathways

Our electrophysiologists offer a multidisciplinary approach, as well as multiple modalities – such as medication, catheterization and surgery – to treat your patient. They are available for phone

consultation 24/7. And you can feel confident knowing their participation in nationally recognized research ensures the latest advances in care.



24/7 Availability of EPs





Heart disease – it's the number one killer of women today. Our Women's Heart Program is leading the charge to combat this deadly disease with the most comprehensive and multidisciplinary offering in the region.

To increase awareness and promote prevention, the Program's public education sessions include information on risk factors and strategies for changing perceptions and behavior while improving heart health. Free monthly screenings, with follow-ups by a cardiologist, reflect our strong commitment to reversing the trend among women.

To help providers better educate women about risk factors and early detection of heart disease, we offer a variety of programs to identify at-risk populations and provide life-saving screenings.

Practitioners of all specialties can benefit from the educational seminars and round-table luncheons that focus on current and future trends in prevention and treatment.

Research goes hand in hand with education – so we place a strong emphasis on observational, genomics and translational research that will help care providers better understand the unique risk factors affecting women, and their role in making women aware of heart disease.



A focus on preventing the #1 killer of women



The Heart Institute's Heart Failure Clinic delivers a better quality of life and life expectancy for patients with heart failure. The Clinic employs standardized protocols that allow for systematic follow-up of patients by the same group of physicians, nurses and allied staff during the patient's entire course of care, guaranteeing improved outcomes.

The Heart Failure Clinic offers patients the latest therapies, including:

- Ultrafiltration to remove excess water and increase the patient's response to standard therapy
- Impedance cardiography to evaluate the hemodynamic response of heart failure patients
- Implantable defibrillators that reduce sudden death
- Trans-telephonic monitoring to track fluid accumulations

- Advanced surgical therapies — with ventricular assist devices such as the *Tandem Heart*

The Heart Failure Clinic conducts research vital to understanding the role new therapy options play in the management of congestive heart failure, and applies research findings to our repertoire of care. As a result, your patient will be afforded the very latest in evidence-based medicine.



**Continuity of Care.
Ultrafiltration.
Tandem Heart.**

OUR JUST REWARDS: ACCREDITATION AND ACCOLADES

With leadership comes recognition. The Heart Institute hospitals have been recognized for their outstanding achievements in patient care by respected independent organizations:

- The Society of Chest Pain Centers granted Geisinger Medical Center and Geisinger Wyoming Valley full accreditation. *The Chest Pain Center* designation demonstrates our commitment to heart care and the timely treatment of heart attacks through 24/7 availability of primary angioplasty.
- Geisinger Medical Center and Geisinger Wyoming Valley have both been named to the *Solucient 100 Top Hospitals: National Benchmarks for Success* list. The 100 Top Hospitals designation acknowledges our clinical excellence and patient safety achievements.
- Geisinger Medical Center has been named to the *Solucient 100 Top Hospitals Cardiovascular Benchmarks for Success* list, which annually identifies high-performing cardiovascular hospitals nationally and sets performance targets for managing and improving cardiovascular services.
- Geisinger Health System repeatedly earns national ranking in the *Verispan Integrated Health Networks Top 100* list. The rankings are based on health systems' integration of operations, clinical quality, financial performance, efficiency and breadth of service.

When it comes to quality, you can trust these objective and rigorous reviews.